Supplementary File

Table s1: (Control vs Activated)

GeneID	Symbol	Description	log2(fold change)	#NAME?	Set
148398	SAMD11	sterile alpha motif domain containing 11	-1.897	16.394	Down
26155	NOC2L	NOC2 like nucleolar associated transcriptional repressor	-1.841	24.324	Down
57801	HES4	hes family bHLH transcription factor 4	-3.907	2.078	Down
375790	AGRN	agrin	-1.006	1.4	Down
1E+08	LOC100288175	uncharacterized LOC100288175	-3.487	10.984	Down
1.12E+08	LOC112267874	replaced by ID 105378948	-2.059	2.101	Down
1.05E+08	LOC105378948	uncharacterized LOC105378948	-2.283	5.992	Down
54991	C1orf159	chromosome 1 open reading frame 159	-1.05	6.127	Down
8784	TNFRSF18	TNF receptor superfamily member 18	-3.245	11.757	Down
7293	TNFRSF4	TNF receptor superfamily member 4	-4.421	5.858	Down
51150	SDF4	stromal cell derived factor 4	-0.936	5.998	Down
126792	B3GALT6	beta-1,3-galactosyltransferase 6	-1.151	3.653	Down
118424	UBE2J2	ubiquitin conjugating enzyme E2 J2	-0.444	1.996	Down
126789	PUSL1	pseudouridine synthase like 1	-1.04	5.344	Down
54973	INTS11	integrator complex subunit 11	-0.913	7.723	Down
54998	AURKAIP1	aurora kinase A interacting protein 1	-1.011	4.832	Down
55052	MRPL20	mitochondrial ribosomal protein L20	-1.158	6.176	Down
219293	ATAD3C	ATPase family AAA domain containing 3C	-1.553	8.963	Down
83858	ATAD3B	ATPase family AAA domain containing 3B	-2.814	13.112	Down
55210	ATAD3A	ATPase family AAA domain containing 3A	-2.428	20.941	Down
65220	NADK	NAD kinase	-0.497	3.351	Down
2782	GNB1	G protein subunit beta 1	-0.485	4.262	Down
339456	TMEM52	transmembrane protein 52	-3.701	4.826	Down
115110	TNFRSF14-AS1	TNFRSF14 antisense RNA 1	-0.748	3.336	Down

8764	TNFRSF14	TNF receptor superfamily member 14	-0.376	1.75	Down
127281	PRXL2B	peroxiredoxin like 2B	-0.765	4.74	Down
79258	MMEL1	membrane metalloendopeptidase like 1	-0.666	1.905	Down
11332	ACOT7	acyl-CoA thioesterase 7	-2.954	26.07	Down
55735	DNAJC11	DnaJ heat shock protein family (Hsp40) member C11	-0.913	5.401	Down
10911	UTS2	urotensin 2	-1.629	1.709	Down
3604	TNFRSF9	TNF receptor superfamily member 9	-3.471	4.263	Down
11315	PARK7	Parkinsonism associated deglycase	-1.087	4.752	Down
54206	ERRFI1	ERBB receptor feedback inhibitor 1	-1.878	5.044	Down
2023	ENO1	enolase 1	-1.792	4.504	Down
1.02E+08	MIR6728	microRNA 6728	-1.666	2.024	Down
84275	SLC25A33	solute carrier family 25 member 33	-1.906	13.172	Down
199953	TMEM201	transmembrane protein 201	-1.03	5.071	Down
5226	PGD	phosphogluconate dehydrogenase	-0.976	3.048	Down
1.01E+08	CENPS-CORT	CENPS-CORT readthrough	-0.887	1.771	Down
378708	CENPS	centromere protein S	-0.987	2.343	Down
54897	CASZ1	castor zinc finger 1	-1.145	1.805	Down
23435	TARDBP	TAR DNA binding protein	-0.471	1.886	Down
6723	SRM	spermidine synthase	-2.291	29.022	Down
26270	FBXO6	F-box protein 6	-2.027	3.987	Down
10459	MAD2L2	mitotic arrest deficient 2 like 2	-1.371	11.316	Down
5351	PLOD1	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	-1.515	4.311	Down
9927	MFN2	mitofusin 2	-0.614	2.987	Down
60672	MIIP	migration and invasion inhibitory protein	-0.775	1.559	Down
943	TNFRSF8	TNF receptor superfamily member 8	-4.497	4.215	Down
79814	AGMAT	agmatinase	-0.791	1.734	Down
26099	SZRD1	SUZ RNA binding domain containing 1	-1.053	9.828	Down
374955	SPATA21	spermatogenesis associated 21	-0.94	7.515	Down

6390	SDHB	succinate dehydrogenase complex iron sulfur subunit B	-1.03	4.783	Down
55920	RCC2	regulator of chromosome condensation 2	-0.577	2.201	Down
8659	ALDH4A1	aldehyde dehydrogenase 4 family member A1	-0.92	2.925	Down
23065	EMC1	ER membrane protein complex subunit 1	-0.539	1.608	Down
51154	MRTO4	MRT4 homolog, ribosome maturation factor	-2.223	15.285	Down
8672	EIF4G3	eukaryotic translation initiation factor 4 gamma 3	-1.473	3.372	Down
10236	HNRNPR	heterogeneous nuclear ribonucleoprotein R	-0.824	14.008	Down
6924	ELOA	elongin A	-0.736	3.278	Down
57095	PITHD1	PITH domain containing 1	-0.424	2.213	Down
1.05E+08	LOC105376860	uncharacterized LOC105376860	-1.149	7.767	Down
11313	LYPLA2	lysophospholipase 2	-1.095	8.16	Down
2582	GALE	UDP-galactose-4-epimerase	-2.492	18.085	Down
10772	SRSF10	serine and arginine rich splicing factor 10	-1.069	11.855	Down
163702	IFNLR1	interferon lambda receptor 1	-1.493	4.984	Down
864	RUNX3	RUNX family transcription factor 3	-1.193	5.985	Down
1.08E+08	LOC107984932		-1.905	1.522	Down
1.05E+08	RUNX3-AS1	RUNX3 antisense RNA 1	-1.478	4.001	Down
51042	ZNF593	zinc finger protein 593	-2.267	18.42	Down
64793	CEP85	centrosomal protein 85	-0.473	2.45	Down
79947	DHDDS	dehydrodolichyl diphosphate synthase subunit	-0.871	10.46	Down
1.02E+08	LOC101928728	uncharacterized LOC101928728	-1.892	1.45	Down
84243	ZDHHC18	zinc finger DHHC-type palmitoyltransferase 18	-1.123	16.644	Down
10726	NUDC	nuclear distribution C, dynein complex regulator	-1.154	16.924	Down
23673	STX12	syntaxin 12	-0.714	2.807	Down
2140	EYA3	EYA transcriptional coactivator and phosphatase 3	-0.544	1.658	Down
22826	DNAJC8	DnaJ heat shock protein family (Hsp40) member C8	-0.531	1.527	Down
83667	SESN2	sestrin 2	-2.668	11.944	Down
1104	RCC1	regulator of chromosome condensation 1	-1.188	10.658	Down

6080	SNORA73A	small nucleolar RNA, H/ACA box 73A	-2.371	2.317	Down
26768	SNORA73B	small nucleolar RNA, H/ACA box 73B	-2.598	2.305	Down
54952	TRNAU1AP	tRNA selenocysteine 1 associated protein 1	-0.932	4.347	Down
51441	YTHDF2	YTH N6-methyladenosine RNA binding protein 2	-0.465	2.435	Down
6429	SRSF4	serine and arginine rich splicing factor 4	-0.62	2.588	Down
51102	MECR	mitochondrial trans-2-enoyl-CoA reductase	-1.718	18.618	Down
9410	SNRNP40	small nuclear ribonucleoprotein U5 subunit 40	-0.576	1.998	Down
3061	HCRTR1	hypocretin receptor 1	-0.705	1.602	Down
553115	PEF1	penta-EF-hand domain containing 1	-0.635	1.786	Down
10657	KHDRBS1	KH RNA binding domain containing, signal transduction associated 1	-0.281	1.932	Down
23633	KPNA6	karyopherin subunit alpha 6	-0.657	4.566	Down
200081	TXLNA	taxilin alpha	-1.243	6.115	Down
8668	EIF3I	eukaryotic translation initiation factor 3 subunit I	-1.023	3.061	Down
3065	HDAC1	histone deacetylase 1	-0.632	4.964	Down
5928	RBBP4	RB binding protein 4, chromatin remodeling factor	-0.39	1.585	Down
57648	KIAA1522	KIAA1522	-0.788	1.442	Down
8565	YARS1	tyrosyl-tRNA synthetase 1	-1.599	8.384	Down
204	AK2	adenylate kinase 2	-1.34	9.064	Down
113444	SMIM12	small integral membrane protein 12	-0.985	5.275	Down
6421	SFPQ	splicing factor proline and glutamine rich	-1.632	12.026	Down
23154	NCDN	neurochondrin	-0.616	2.646	Down
5690	PSMB2	proteasome 20S subunit beta 2	-1.677	24.009	Down
127703	C1orf216	chromosome 1 open reading frame 216	-1.7	15.469	Down
63967	CLSPN	claspin	-3.227	6.192	Down
83931	STK40	serine/threonine kinase 40	-0.879	3.624	Down
64960	MRPS15	mitochondrial ribosomal protein S15	-1.263	5.352	Down
80149	ZC3H12A	zinc finger CCCH-type containing 12A	-2.282	4.847	Down
29889	GNL2	G protein nucleolar 2	-1.656	22.192	Down

55143	CDCA8	cell division cycle associated 8	-1.251	5.648	Down
149175	MANEAL	mannosidase endo-alpha like	-0.825	2.955	Down
79693	YRDC	yrdC N6-threonylcarbamoyltransferase domain containing	-2.498	28.83	Down
127687	C1orf122	chromosome 1 open reading frame 122	-1.472	8.158	Down
4520	MTF1	metal regulatory transcription factor 1	-0.743	4.652	Down
10946	SF3A3	splicing factor 3a subunit 3	-0.611	2.884	Down
51118	UTP11	UTP11 small subunit processome component	-1.56	11.513	Down
5453	POU3F1	POU class 3 homeobox 1	-1.223	1.811	Down
84879	MFSD2A	MFSD2 lysolipid transporter A, lysophospholipid	-3.909	13.102	Down
10487	CAP1	cyclase associated actin cytoskeleton regulatory protein 1	-0.582	2.787	Down
10269	ZMPSTE24	zinc metallopeptidase STE24	-0.801	2.876	Down
1298	COL9A2	collagen type IX alpha 2 chain	-2.538	8.472	Down
1.08E+08	LOC107984945	replaced by ID 64744	-1.909	1.306	Down
64744	SMAP2	small ArfGAP2	-0.93	14.017	Down
65243	ZFP69B	ZFP69 zinc finger protein B	-0.874	2.715	Down
64789	EXO5	exonuclease 5	-0.587	1.753	Down
4802	NFYC	nuclear transcription factor Y subunit gamma	-0.474	1.992	Down
1503	CTPS1	CTP synthase 1	-2.959	30.256	Down
22955	SCMH1	Scm polycomb group protein homolog 1	-0.626	1.633	Down
59269	HIVEP3	HIVEP zinc finger 3	-1.83	5.186	Down
284716	RIMKLA	ribosomal modification protein rimK like family member A	-2.13	2.236	Down
10465	PPIH	peptidylprolyl isomerase H	-1.538	10.657	Down
4904	YBX1	Y-box binding protein 1	-1.264	6.442	Down
10969	EBNA1BP2	EBNA1 binding protein 2	-2.195	21.927	Down
991	CDC20	cell division cycle 20	-4.826	25.172	Down
64834	ELOVL1	ELOVL fatty acid elongase 1	-0.718	6.627	Down
112950	MED8	mediator complex subunit 8	-0.845	4.909	Down
1.08E+08	MED8-AS1	MED8 antisense RNA 1	-0.932	2.455	Down

1802	DPH2	diphthamide biosynthesis 2	-1.806	17.79	Down
533	ATP6V0B	ATPase H+ transporting V0 subunit b	-1.124	8.244	Down
8704	B4GALT2	beta-1,4-galactosyltransferase 2	-2.509	7.642	Down
6536	SLC6A9	solute carrier family 6 member 9	-4.79	15.586	Down
79033	ERI3	ERI1 exoribonuclease family member 3	-0.795	4.251	Down
339541	ARMH1	armadillo like helical domain containing 1	-0.792	4.211	Down
11004	KIF2C	kinesin family member 2C	-1.785	5.218	Down
8891	EIF2B3	eukaryotic translation initiation factor 2B subunit gamma	-2.146	27.018	Down
84842	HPDL	4-hydroxyphenylpyruvate dioxygenase like	-4.27	22.57	Down
114034	TOE1	target of EGR1, exonuclease	-1.273	9.522	Down
10420	TESK2	testis associated actin remodelling kinase 2	-0.482	1.434	Down
25974	MMACHC	metabolism of cobalamin associated C	-1.786	15.905	Down
5052	PRDX1	peroxiredoxin 1	-1.842	12.655	Down
10327	AKR1A1	aldo-keto reductase family 1 member A1	-1.532	7.2	Down
4678	NASP	nuclear autoantigenic sperm protein	-1.034	10.644	Down
51249	TMEM69	transmembrane protein 69	-0.359	1.492	Down
23139	MAST2	microtubule associated serine/threonine kinase 2	-0.85	1.406	Down
55624	POMGNT1	protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)	-0.882	6.601	Down
8438	RAD54L	RAD54 like	-1.707	10.353	Down
10489	LRRC41	leucine rich repeat containing 41	-0.576	3.512	Down
387338	NSUN4	NOP2/Sun RNA methyltransferase 4	-0.647	2.717	Down
2166	FAAH	fatty acid amide hydrolase	-0.842	1.441	Down
6491	STIL	STIL centriolar assembly protein	-1.255	4.505	Down
4898	NRDC	nardilysin convertase	-0.668	4.14	Down
1.05E+08	LOC105378721		-0.681	2.741	Down
112970	KTI12	KTI12 chromatin associated homolog	-0.564	1.882	Down
4998	ORC1	origin recognition complex subunit 1	-3.129	15.126	Down
65260	COA7	cytochrome c oxidase assembly factor 7	-1.662	16.875	Down

4116	MAGOH	mago homolog, exon junction complex subunit	-1.171	11.539	Down
7804	LRP8	LDL receptor related protein 8	-2.09	8.733	Down
1.05E+08	LOC105378728	uncharacterized LOC105378728	-1.982	2.408	Down
1.05E+08	LOC105378726	uncharacterized LOC105378726	-2.645	2.414	Down
115353	LRRC42	leucine rich repeat containing 42	-1.344	17.257	Down
51253	MRPL37	mitochondrial ribosomal protein L37	-1.133	6.631	Down
1.01E+08	MROH7-TTC4	MROH7-TTC4 readthrough (NMD candidate)	-0.883	8.788	Down
7268	TTC4	tetratricopeptide repeat domain 4	-0.878	9.526	Down
1718	DHCR24	24-dehydrocholesterol reductase	-2.323	19.254	Down
1.08E+08	DHCR24-DT	DHCR24 divergent transcript	-2.984	1.495	Down
5236	PGM1	phosphoglucomutase 1	-0.585	1.976	Down
205	AK4	adenylate kinase 4	-2.903	3.035	Down
9829	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6	-1.384	6.625	Down
57708	MIER1	MIER1 transcriptional regulator	-0.593	5.449	Down
149233	IL23R	interleukin 23 receptor	-2.425	3.826	Down
3595	IL12RB2	interleukin 12 receptor subunit beta 2	-3.844	12.524	Down
1.05E+08	LOC105378779		-2.876	4.089	Down
26135	SERBP1	SERPINE1 mRNA binding protein 1	-1.138	7.814	Down
11147	HHLA3	HERV-H LTR-associating 3	-0.474	1.554	Down
1E+08	ZRANB2-AS1	ZRANB2 antisense RNA 1	-0.785	3.546	Down
9406	ZRANB2	zinc finger RANBP2-type containing 2	-0.732	4.691	Down
127253	TYW3	tRNA-yW synthesizing protein 3 homolog	-0.486	1.676	Down
5876	RABGGTB	Rab geranylgeranyltransferase subunit beta	-1.493	25.808	Down
91624	NEXN	nexilin F-actin binding protein	-1.176	6.402	Down
8880	FUBP1	far upstream element binding protein 1	-1.418	17.417	Down
80135	RPF1	ribosome production factor 1 homolog	-0.676	2.07	Down
2787	GNG5	G protein subunit gamma 5	-0.73	3.235	Down
255231	MCOLN2	mucolipin TRP cation channel 2	-0.918	2.389	Down

148423	C1orf52	chromosome 1 open reading frame 52	-0.411	2.368	Down
8915	BCL10	BCL10 immune signaling adaptor	-0.348	1.854	Down
54680	ZNHIT6	zinc finger HIT-type containing 6	-0.68	3.039	Down
494115	RBMXL1	RBMX like 1	-0.387	2.648	Down
2633	GBP1	guanylate binding protein 1	-1.764	3.775	Down
2634	GBP2	guanylate binding protein 2	-1.377	7.286	Down
1.12E+08	LOC112268267	uncharacterized LOC112268267	-1.311	6.852	Down
115361	GBP4	guanylate binding protein 4	-1.251	6.108	Down
115362	GBP5	guanylate binding protein 5	-1.989	4.7	Down
163351	GBP6	guanylate binding protein family member 6	-5.384	17.523	Down
400759	GBP1P1	guanylate binding protein 1 pseudogene 1	-1.742	2.67	Down
23507	LRRC8B	leucine rich repeat containing 8 VRAC subunit B	-0.796	5.096	Down
646817	SETSIP	SET like protein	-0.844	3.972	Down
11146	GLMN	glomulin, FKBP associated protein	-0.853	4.148	Down
2672	GFI1	growth factor independent 1 transcriptional repressor	-1.83	6.403	Down
7813	EVI5	ecotropic viral integration site 5	-0.934	2.577	Down
30836	DNTTIP2	deoxynucleotidyltransferase terminal interacting protein 2	-0.785	2.678	Down
2730	GCLM	glutamate-cysteine ligase modifier subunit	-1.729	28.752	Down
199857	ALG14	ALG14 UDP-N-acetylglucosaminyltransferase subunit	-0.748	1.532	Down
64645	MFSD14A	major facilitator superfamily domain containing 14A	-0.73	5.855	Down
163786	SASS6	SAS-6 centriolar assembly protein	-0.395	1.726	Down
8634	RTCA	RNA 3'-terminal phosphate cyclase	-0.394	1.957	Down
148867	SLC30A7	solute carrier family 30 member 7	-0.551	3.513	Down
648740	ACTG1P4	actin gamma 1 pseudogene 4	-1.393	1.813	Down
6884	TAF13	TATA-box binding protein associated factor 13	-1.486	11.01	Down
6301	SARS1	seryl-tRNA synthetase 1	-0.617	1.98	Down
5686	PSMA5	proteasome 20S subunit alpha 5	-1.27	7.155	Down
127002	ATXN7L2	ataxin 7 like 2	-0.831	5.16	Down

2773	GNAI3	G protein subunit alpha i3	-0.641	3.769	Down
271	AMPD2	adenosine monophosphate deaminase 2	-0.499	2.631	Down
1435	CSF1	colony stimulating factor 1	-2.927	2.107	Down
10542	LAMTOR5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-1.211	6.973	Down
79084	WDR77	WD repeat domain 77	-1.471	11.332	Down
5906	RAP1A	RAP1A, member of RAS oncogene family	-0.528	2.434	Down
1E+08	LINC01160	long intergenic non-protein coding RNA 1160	-4.261	6.572	Down
1.08E+08	LOC107985184	uncharacterized LOC107985184	-0.936	2.93	Down
11218	DDX20	DEAD-box helicase 20	-0.38	3.28	Down
829	CAPZA1	capping actin protein of muscle Z-line subunit alpha 1	-0.504	1.787	Down
6566	SLC16A1	solute carrier family 16 member 1	-1.46	8.216	Down
10745	PHTF1	putative homeodomain transcription factor 1	-0.782	3.382	Down
204851	HIPK1	homeodomain interacting protein kinase 1	-0.369	1.37	Down
10286	BCAS2	BCAS2 pre-mRNA processing factor	-0.757	4.27	Down
4893	NRAS	NRAS proto-oncogene, GTPase	-0.966	7.337	Down
81839	VANGL1	VANGL planar cell polarity protein 1	-0.551	1.99	Down
1.05E+08	LOC105378925	uncharacterized LOC105378925	-5.192	3.212	Down
3321	IGSF3	immunoglobulin superfamily member 3	-3.09	4.84	Down
914	CD2	CD2 molecule	-0.558	1.956	Down
5738	PTGFRN	prostaglandin F2 receptor inhibitor	-2.617	13.628	Down
8458	TTF2	transcription termination factor 2	-0.722	2.818	Down
54855	TENT5C	terminal nucleotidyltransferase 5C	-0.503	2.739	Down
10885	WDR3	WD repeat domain 3	-0.852	2.801	Down
200162	SPAG17	sperm associated antigen 17	-1.105	3.27	Down
10352	WARS2	tryptophanyl tRNA synthetase 2, mitochondrial	-0.81	4.988	Down
26227	PHGDH	phosphoglycerate dehydrogenase	-1.901	10.437	Down
1.05E+08	LOC105378936	replaced by ID 26227	-2.448	1.376	Down
653505	PPIAL4A	peptidylprolyl isomerase A like 4A	-1.127	1.772	Down

653820	FAM72B	family with sequence similarity 72 member B	-2.238	2.846	Down
554282	FAM72C	family with sequence similarity 72 member C	-2.001	2.559	Down
728833	FAM72D	family with sequence similarity 72 member D	-1.768	2.112	Down
9939	RBM8A	RNA binding motif protein 8A	-0.805	13.158	Down
1.05E+08	LIX1L-AS1	LIX1L antisense RNA 1	-1.582	25.31	Down
284615	ANKRD34A	ankyrin repeat domain 34A	-1.176	2.202	Down
9557	CHD1L	chromodomain helicase DNA binding protein 1 like	-0.743	7.249	Down
171423	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1	-0.857	4.129	Down
2330	FMO5	flavin containing dimethylaniline monoxygenase 5	-1.189	5.602	Down
284561	LINC02806	long intergenic non-protein coding RNA 2806	-2.896	1.799	Down
644591	PPIAL4G	peptidylprolyl isomerase A like 4G	-1.179	2.127	Down
653598	PPIAL4C	peptidylprolyl isomerase A like 4C	-1.145	1.871	Down
8337	H2AC18	H2A clustered histone 18	-0.916	1.308	Down
723790	H2AC19	H2A clustered histone 19	-0.952	1.388	Down
10262	SF3B4	splicing factor 3b subunit 4	-0.905	8.321	Down
56957	OTUD7B	OTU deubiquitinase 7B	-1.045	3.304	Down
81611	ANP32E	acidic nuclear phosphoprotein 32 family member E	-0.587	3.455	Down
9129	PRPF3	pre-mRNA processing factor 3	-1.378	6.909	Down
2029	ENSA	endosulfine alpha	-0.785	5.5	Down
8394	PIP5K1A	phosphatidylinositol-4-phosphate 5-kinase type 1 alpha	-0.944	11.332	Down
5710	PSMD4	proteasome 26S subunit ubiquitin receptor, non-ATPase 4	-0.8	4.002	Down
5993	RFX5	regulatory factor X5	-0.955	8.754	Down
5692	PSMB4	proteasome 20S subunit beta 4	-1.001	5.993	Down
1E+08	C2CD4D	C2 calcium dependent domain containing 4D	-1.218	2.987	Down
1E+08	C2CD4D-AS1	C2CD4D and THEM5 antisense RNA 1	-1.862	10.696	Down
284486	THEM5	thioesterase superfamily member 5	-1.68	3.436	Down
57115	PGLYRP4	peptidoglycan recognition protein 4	-2.487	1.761	Down
6284	S100A13	S100 calcium binding protein A13	-0.607	3.027	Down

26097	CHTOP	chromatin target of PRMT1	-0.544	3.469	Down
3608	ILF2	interleukin enhancer binding factor 2	-1.757	11.511	Down
27173	SLC39A1	solute carrier family 39 member 1	-1.202	7.255	Down
7170	TPM3	tropomyosin 3	-0.828	6.234	Down
25912	C1orf43	chromosome 1 open reading frame 43	-0.532	1.489	Down
9898	UBAP2L	ubiquitin associated protein 2 like	-0.735	7.104	Down
10456	HAX1	HCLS1 associated protein X-1	-0.863	2.569	Down
1141	CHRNB2	cholinergic receptor nicotinic beta 2 subunit	-0.518	4.813	Down
103	ADAR	adenosine deaminase RNA specific	-0.54	2.993	Down
10654	PMVK	phosphomevalonate kinase	-1.057	6.179	Down
1163	CKS1B	CDC28 protein kinase regulatory subunit 1B	-1.053	2.66	Down
80308	FLAD1	flavin adenine dinucleotide synthetase 1	-1.035	7.821	Down
51043	ZBTB7B	zinc finger and BTB domain containing 7B	-0.428	1.826	Down
8751	ADAM15	ADAM metallopeptidase domain 15	-1.551	11.702	Down
4580	MTX1	metaxin 1	-0.988	7.905	Down
10067	SCAMP3	secretory carrier membrane protein 3	-0.787	5.009	Down
2224	FDPS	farnesyl diphosphate synthase	-1.293	6.474	Down
284618	RUSC1-AS1	RUSC1 antisense RNA 1	-1.277	6.862	Down
1.05E+08	LOC105371452	uncharacterized LOC105371452	-1.57	3.356	Down
55154	MSTO1	misato mitochondrial distribution and morphology regulator 1	-0.99	5.663	Down
1.01E+08	LOC100505728	uncharacterized LOC100505728	-0.996	1.615	Down
1E+08	MSTO2P	misato family member 2, pseudogene	-0.745	2.278	Down
56893	UBQLN4	ubiquilin 4	-0.62	3.1	Down
28956	LAMTOR2	late endosomal/lysosomal adaptor, MAPK and MTOR activator 2	-0.692	1.77	Down
92312	MEX3A	mex-3 RNA binding family member A	-2.636	3.961	Down
4000	LMNA	lamin A/C	-1.943	5.784	Down
9673	SLC25A44	solute carrier family 25 member 44	-0.778	3.717	Down
1.01E+08	PMF1-BGLAP	PMF1-BGLAP readthrough	-1.417	8.485	Down

11243	PMF1	polyamine modulated factor 1	-1.525	8.421	Down
23381	SMG5	SMG5 nonsense mediated mRNA decay factor	-0.584	1.342	Down
7203	CCT3	chaperonin containing TCP1 subunit 3	-1.67	17.904	Down
10485	MIR9-1HG	MIR9-1 host gene	-1.892	2.577	Down
128240	NAXE	NAD(P)HX epimerase	-1.213	6.973	Down
54865	GPATCH4	G-patch domain containing 4 (gene/pseudogene)	-2.012	12.775	Down
1382	CRABP2	cellular retinoic acid binding protein 2	-4.455	2.523	Down
81875	ISG20L2	interferon stimulated exonuclease gene 20 like 2	-0.526	2.123	Down
79590	MRPL24	mitochondrial ribosomal protein L24	-1.385	6.636	Down
3068	HDGF	heparin binding growth factor	-0.48	5.099	Down
5546	PRCC	proline rich mitotic checkpoint control factor	-0.492	3.124	Down
9047	SH2D2A	SH2 domain containing 2A	-1.989	12.585	Down
3428	IFI16	interferon gamma inducible protein 16	-0.778	1.373	Down
9447	AIM2	absent in melanoma 2	-2.252	6.767	Down
54935	DUSP23	dual specificity phosphatase 23	-0.943	3.129	Down
8407	TAGLN2	transgelin 2	-0.729	3.577	Down
93185	IGSF8	immunoglobulin superfamily member 8	-0.336	1.781	Down
5824	PEX19	peroxisomal biogenesis factor 19	-0.286	1.325	Down
6504	SLAMF1	signaling lymphocytic activation molecule family member 1	-1.145	6.71	Down
5202	PFDN2	prefoldin subunit 2	-1.537	12.899	Down
9191	DEDD	death effector domain containing	-0.393	1.996	Down
8703	B4GALT3	beta-1,4-galactosyltransferase 3	-0.6	3.006	Down
4720	NDUFS2	NADH:ubiquinone oxidoreductase core subunit S2	-0.636	5.867	Down
84134	TOMM40L	translocase of outer mitochondrial membrane 40 like	-1.602	7.839	Down
9970	NR1I3	nuclear receptor subfamily 1 group I member 3	-1.593	3.014	Down
1E+08	TRE-TTC4-2	tRNA-Glu (anticodon TTC) 4-2	-2.618	5.459	Down
11266	DUSP12	dual specificity phosphatase 12	-0.407	1.964	Down
22926	ATF6	activating transcription factor 6	-0.501	2.959	Down

51478	HSD17B7	hydroxysteroid 17-beta dehydrogenase 7	-0.767	2.961	Down
7371	UCK2	uridine-cytidine kinase 2	-2.403	32.17	Down
1.01E+08	MIR3658	microRNA 3658	-2.994	7.174	Down
57645	POGK	pogo transposable element derived with KRAB domain	-0.425	2.086	Down
387597	ILDR2	immunoglobulin like domain containing receptor 2	-3.791	20.549	Down
6846	XCL2	X-C motif chemokine ligand 2	-2.239	6.735	Down
6375	XCL1	X-C motif chemokine ligand 1	-2.824	5.642	Down
10560	SLC19A2	solute carrier family 19 member 2	-1.281	7.488	Down
2153	F5	coagulation factor V	-1.409	2.694	Down
1.08E+08	LOC107985745	uncharacterized LOC107985745	-1.316	1.538	Down
22920	KIFAP3	kinesin associated protein 3	-0.62	1.84	Down
7151	TOP1P1	DNA topoisomerase I pseudogene 1	-1.193	3.633	Down
356	FASLG	Fas ligand	-2.374	13.398	Down
55157	DARS2	aspartyl-tRNA synthetase 2, mitochondrial	-0.7	5.666	Down
27101	CACYBP	calcyclin binding protein	-0.824	4.037	Down
5768	QSOX1	quiescin sulfhydryl oxidase 1	-0.36	1.981	Down
84320	ACBD6	acyl-CoA binding domain containing 6	-1.001	9.498	Down
51278	IER5	immediate early response 5	-1.306	10.347	Down
6004	RGS16	regulator of G protein signaling 16	-2.733	9.549	Down
80896	NPL	N-acetylneuraminate pyruvate lyase	-0.757	1.862	Down
647070	DHX9-AS1	DHX9 antisense RNA 1	-0.843	5.264	Down
1660	DHX9	DExH-box helicase 9	-1.082	16.208	Down
116461	TSEN15	tRNA splicing endonuclease subunit 15	-1.103	5.196	Down
5996	RGS1	regulator of G protein signaling 1	-3.028	8.493	Down
51377	UCHL5	ubiquitin C-terminal hydrolase L5	-0.488	2.261	Down
51022	GLRX2	glutaredoxin 2	-0.701	2.333	Down
1.02E+08	LOC101929160		-0.62	2.63	Down
79577	CDC73	cell division cycle 73	-0.382	1.733	Down

163486	DENND1B	DENN domain containing 1B	-0.485	1.319	Down
9928	KIF14	kinesin family member 14	-2.215	1.673	Down
10440	TIMM17A	translocase of inner mitochondrial membrane 17A	-1.366	8.413	Down
127829	ARL8A	ADP ribosylation factor like GTPase 8A	-0.268	1.69	Down
5778	PTPN7	protein tyrosine phosphatase non-receptor type 7	-1.68	29.86	Down
29089	UBE2T	ubiquitin conjugating enzyme E2 T	-1.763	8.038	Down
51094	ADIPOR1	adiponectin receptor 1	-0.497	2.042	Down
7832	BTG2	BTG anti-proliferation factor 2	-0.991	4.502	Down
6635	SNRPE	small nuclear ribonucleoprotein polypeptide E	-0.932	2.261	Down
84919	PPP1R15B	protein phosphatase 1 regulatory subunit 15B	-0.825	4.077	Down
1E+08	TRK-TTT3-1	tRNA-Lys (anticodon TTT) 3-1	-2.373	1.507	Down
254428	SLC41A1	solute carrier family 41 member 1	-0.602	3.429	Down
729533	FAM72A	family with sequence similarity 72 member A	-1.775	2.194	Down
3586	IL10	interleukin 10	-7.754	48.652	Down
29949	IL19	interleukin 19	-5.858	20.243	Down
55432	YOD1	YOD1 deubiquitinase	-0.477	2.185	Down
5208	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	-1.47	3.397	Down
7779	SLC30A1	solute carrier family 30 member 1	-1.104	6.185	Down
25896	INTS7	integrator complex subunit 7	-0.875	5.348	Down
51514	DTL	denticleless E3 ubiquitin protein ligase homolog	-4.101	31.517	Down
467	ATF3	activating transcription factor 3	-2.341	1.959	Down
55509	BATF3	basic leucine zipper ATF-like transcription factor 3	-4.286	10.652	Down
28982	FLVCR1	FLVCR heme transporter 1	-1.157	6.209	Down
51018	RRP15	ribosomal RNA processing 15 homolog	-1.154	7.167	Down
2058	EPRS1	glutamyl-prolyl-tRNA synthetase 1	-0.754	4.776	Down
10380	BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1	-0.779	3.808	Down
11221	DUSP10	dual specificity phosphatase 10	-2.242	8.499	Down
9015	TAF1A	TATA-box binding protein associated factor, RNA polymerase I subunit A	-0.805	5.657	Down

400823	FAM177B	family with sequence similarity 177 member B	-1.202	1.339	Down
7159	TP53BP2	tumor protein p53 binding protein 2	-1.098	4.437	Down
55740	ENAH	ENAH actin regulator	-2.996	2.531	Down
29920	PYCR2	pyrroline-5-carboxylate reductase 2	-0.426	1.325	Down
163859	SDE2	SDE2 telomere maintenance homolog	-0.838	5.6	Down
142	PARP1	poly(ADP-ribose) polymerase 1	-0.614	3.178	Down
5664	PSEN2	presenilin 2	-1.481	2.463	Down
339500	ZNF678	zinc finger protein 678	-0.559	2.231	Down
65094	JMJD4	jumonji domain containing 4	-0.638	3.796	Down
375	ARF1	ADP ribosylation factor 1	-0.445	2.279	Down
2987	GUK1	guanylate kinase 1	-0.804	2.326	Down
58	ACTA1	actin alpha 1, skeletal muscle	-1.566	6.075	Down
9816	URB2	URB2 ribosome biogenesis homolog	-1.656	6.562	Down
375061	FAM89A	family with sequence similarity 89 member A	-1.293	11.017	Down
1E+08	MIR1182	microRNA 1182	-1.329	3.138	Down
8443	GNPAT	glyceronephosphate O-acyltransferase	-0.533	1.98	Down
57568	SIPA1L2	signal induced proliferation associated 1 like 2	-1.152	4.241	Down
3775	KCNK1	potassium two pore domain channel subfamily K member 1	-4.377	4.326	Down
388753	COA6	cytochrome c oxidase assembly factor 6	-0.761	1.321	Down
1.01E+08	LINC01132	long intergenic non-protein coding RNA 1132	-3.349	6.703	Down
6905	TBCE	tubulin folding cofactor E	-0.702	2.778	Down
128178	EDARADD	EDAR associated death domain	-1.296	4.177	Down
55127	HEATR1	HEAT repeat containing 1	-0.836	5.083	Down
1E+08	LOC100130331	POTE ankyrin domain family, member F pseudogene	-1.886	3.007	Down
2271	FH	fumarate hydratase	-0.993	6.724	Down
9156	EXO1	exonuclease 1	-2.39	4.618	Down
51029	DESI2	desumoylating isopeptidase 2	-0.681	2.154	Down
116228	COX20	cytochrome c oxidase assembly factor COX20	-0.496	2.064	Down

3192	HNRNPU	heterogeneous nuclear ribonucleoprotein U	-0.767	3.042	Down
1.07E+08	SNORA100	small nucleolar RNA, H/ACA box 100	-0.654	1.924	Down
64216	TFB2M	transcription factor B2, mitochondrial	-1.079	8.011	Down
51097	SCCPDH	saccharopine dehydrogenase (putative)	-1.854	6.517	Down
7260	EIPR1	EARP complex and GARP complex interacting protein 1	-1.025	6.012	Down
386597	GRASLND	glycosaminoglycan regulatory associated long non-coding RNA	-2.082	17.904	Down
1.01E+08	LOC100506274	uncharacterized LOC100506274	-2.959	2.939	Down
1.02E+08	LOC101929510	uncharacterized LOC101929510	-2.512	6.408	Down
1.02E+08	LINC01871	long intergenic non-protein coding RNA 1871	-2.039	7.318	Down
3398	ID2	inhibitor of DNA binding 2	-2.664	10.782	Down
9270	ITGB1BP1	integrin subunit beta 1 binding protein 1	-0.707	6.593	Down
51692	CPSF3	cleavage and polyadenylation specific factor 3	-0.673	3.585	Down
285148	IAH1	isoamyl acetate hydrolyzing esterase 1 (putative)	-0.635	3.285	Down
6868	ADAM17	ADAM metallopeptidase domain 17	-0.431	2.274	Down
10971	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta	-1.745	33.348	Down
9014	TAF1B	TATA-box binding protein associated factor, RNA polymerase I subunit B	-0.787	2.286	Down
29841	GRHL1	grainyhead like transcription factor 1	-2.22	2.531	Down
6241	RRM2	ribonucleotide reductase regulatory subunit M2	-3.652	19.915	Down
4953	ODC1	ornithine decarboxylase 1	-2.849	28.03	Down
79954	NOL10	nucleolar protein 10	-1.519	17.015	Down
245973	ATP6V1C2	ATPase H+ transporting V1 subunit C2	-1.397	6.597	Down
10130	PDIA6	protein disulfide isomerase family A member 6	-1.418	8.277	Down
1876	E2F6	E2F transcription factor 6	-1.055	10.539	Down
1653	DDX1	DEAD-box helicase 1	-1.053	6.491	Down
348654	GEN1	GEN1 Holliday junction 5' flap endonuclease	-0.908	8.14	Down
388	RHOB	ras homolog family member B	-1.192	3.977	Down
60526	LDAH	lipid droplet associated hydrolase	-0.965	3.435	Down
388931	MFSD2B	MFSD2 lysolipid transporter B, sphingolipid	-1.193	3.298	Down

2281	FKBP1B	FKBP prolyl isomerase 1B	-0.662	1.525	Down
51639	SF3B6	splicing factor 3b subunit 6	-0.666	2.31	Down
79172	CENPO	centromere protein O	-0.787	6.335	Down
109	ADCY3	adenylate cyclase 3	-1.408	6.756	Down
5443	POMC	proopiomelanocortin	-1.043	2.904	Down
10890	RAB10	RAB10, member RAS oncogene family	-0.551	1.845	Down
1.05E+08	LOC105374333	uncharacterized LOC105374333	-1.327	1.464	Down
85465	SELENOI	selenoprotein I	-1.901	28.166	Down
9381	OTOF	otoferlin	-1.407	1.827	Down
22924	MAPRE3	microtubule associated protein RP/EB family member 3	-1.001	2.597	Down
54867	TMEM214	transmembrane protein 214	-0.807	6.136	Down
10669	CGREF1	cell growth regulator with EF-hand domain 1	-1.102	1.604	Down
84696	ABHD1	abhydrolase domain containing 1	-0.7	3.324	Down
10113	PREB	prolactin regulatory element binding	-0.807	4.924	Down
8884	SLC5A6	solute carrier family 5 member 6	-1.402	9.744	Down
790	CAD	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	-1.353	10.807	Down
4358	MPV17	mitochondrial inner membrane protein MPV17	-0.635	3.071	Down
2976	GTF3C2	general transcription factor IIIC subunit 2	-0.452	2.138	Down
1.01E+08	GTF3C2-AS1	GTF3C2 antisense RNA 1	-0.565	2.016	Down
8890	EIF2B4	eukaryotic translation initiation factor 2B subunit delta	-0.686	5.183	Down
130557	ZNF513	zinc finger protein 513	-0.705	2.591	Down
5496	PPM1G	protein phosphatase, Mg2+/Mn2+ dependent 1G	-0.573	3.009	Down
29959	NRBP1	nuclear receptor binding protein 1	-0.529	3.32	Down
84226	C2orf16	chromosome 2 open reading frame 16	-2.966	5.827	Down
11321	GPN1	GPN-loop GTPase 1	-0.626	1.999	Down
9913	SUPT7L	SPT7 like, STAGA complex subunit gamma	-0.315	1.785	Down
22950	SLC4A1AP	solute carrier family 4 member 1 adaptor protein	-0.455	3.32	Down
9553	MRPL33	mitochondrial ribosomal protein L33	-0.671	1.732	Down

64080	RBKS	ribokinase	-2.203	20.651	Down
9577	BABAM2	BRISC and BRCA1 A complex member 2	-0.781	4.081	Down
1E+08	BABAM2-AS1	BABAM2 antisense RNA 1	-2.199	9.475	Down
2355	FOSL2	FOS like 2, AP-1 transcription factor subunit	-2.984	18.811	Down
1.12E+08	PPP1CB-DT	PPP1CB divergent transcript	-1.089	1.999	Down
23160	WDR43	WD repeat domain 43	-1.346	21.822	Down
51072	MEMO1	mediator of cell motility 1	-1.223	11.077	Down
55622	TTC27	tetratricopeptide repeat domain 27	-1.498	12.657	Down
25780	RASGRP3	RAS guanyl releasing protein 3	-1.421	2.999	Down
25940	FAM98A	family with sequence similarity 98 member A	-1.497	15.007	Down
10153	CEBPZ	CCAAT enhancer binding protein zeta	-0.539	4.075	Down
92906	HNRNPLL	heterogeneous nuclear ribonucleoprotein L like	-0.909	8.972	Down
130589	GALM	galactose mutarotase	-1.341	7.498	Down
6432	SRSF7	serine and arginine rich splicing factor 7	-2.251	40.886	Down
729967	MORN2	MORN repeat containing 2	-1.821	4.606	Down
80745	THUMPD2	THUMP domain containing 2	-0.794	3.053	Down
63892	THADA	THADA armadillo repeat containing	-0.537	2.951	Down
10128	LRPPRC	leucine rich pentatricopeptide repeat containing	-0.616	1.673	Down
2034	EPAS1	endothelial PAS domain protein 1	-4.227	18.873	Down
57217	TTC7A	tetratricopeptide repeat domain 7A	-0.942	4.809	Down
2956	MSH6	mutS homolog 6	-0.561	2.831	Down
494143	CHAC2	ChaC glutathione specific gamma-glutamylcyclotransferase 2	-2.56	21.378	Down
87178	PNPT1	polyribonucleotide nucleotidyltransferase 1	-1.922	32.847	Down
7444	VRK2	VRK serine/threonine kinase 2	-0.534	2.963	Down
55120	FANCL	FA complementation group L	-0.514	1.827	Down
5966	REL	REL proto-oncogene, NF-kB subunit	-1.012	1.924	Down
7514	XPO1	exportin 1	-1.156	11.532	Down
10575	CCT4	chaperonin containing TCP1 subunit 4	-1.095	3.934	Down

150684	COMMD1	copper metabolism domain containing 1	-1.103	5.325	Down
4190	MDH1	malate dehydrogenase 1	-0.797	2.718	Down
57162	PELI1	pellino E3 ubiquitin protein ligase 1	-1.216	3.928	Down
29094	LGALSL	galectin like	-1.839	2.612	Down
56902	PNO1	partner of NOB1 homolog	-1.976	13.654	Down
2673	GFPT1	glutamine--fructose-6-phosphate transaminase 1	-0.776	6.407	Down
11017	SNRNP27	small nuclear ribonucleoprotein U4/U6.U5 subunit 27	-0.803	9.641	Down
7072	TIA1	TIA1 cytotoxic granule associated RNA binding protein	-1.212	9.97	Down
6637	SNRPG	small nuclear ribonucleoprotein polypeptide G	-1.486	9.327	Down
84908	FAM136A	family with sequence similarity 136 member A	-1.245	7.804	Down
119	ADD2	adducin 2	-2.124	5.65	Down
6697	SPR	sepiapterin reductase	-1.787	2.938	Down
10322	SMYD5	SMYD family member 5	-0.884	6.426	Down
10574	CCT7	chaperonin containing TCP1 subunit 7	-1.591	10.058	Down
1961	EGR4	early growth response 4	-8.116	7.821	Down
388962	BOLA3	bolA family member 3	-1.902	10.826	Down
10797	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	-3.033	14.804	Down
57835	SLC4A5	solute carrier family 4 member 5	-1.628	4.213	Down
83444	INO80B	INO80 complex subunit B	-0.543	2.638	Down
550	AUP1	AUP1 lipid droplet regulating VLDL assembly factor	-0.827	5.015	Down
27429	HTRA2	HtrA serine peptidase 2	-0.868	5.065	Down
84695	LOXL3	lysyl oxidase like 3	-0.776	2.801	Down
3099	HK2	hexokinase 2	-1.516	2.788	Down
56655	POLE4	DNA polymerase epsilon 4, accessory subunit	-0.656	1.801	Down
9801	MRPL19	mitochondrial ribosomal protein L19	-0.891	6.899	Down
6936	GCFC2	GC-rich sequence DNA-binding factor 2	-0.534	5.649	Down
8802	SUCLG1	succinate-CoA ligase GDP/ADP-forming subunit alpha	-0.76	1.99	Down
1.05E+08	LOC105374836	uncharacterized LOC105374836	-0.829	1.822	Down

9168	TMSB10	thymosin beta 10	-0.92	2.107	Down
56888	KCMF1	potassium channel modulatory factor 1	-0.672	5.674	Down
4144	MAT2A	methionine adenosyltransferase 2A	-1.265	7.486	Down
2677	GGCX	gamma-glutamyl carboxylase	-0.762	5.161	Down
51255	RNF181	ring finger protein 181	-0.864	2.343	Down
129303	TMEM150A	transmembrane protein 150A	-0.639	3.401	Down
10713	USP39	ubiquitin specific peptidase 39	-0.468	1.877	Down
25885	POLR1A	RNA polymerase I subunit A	-1.321	6.023	Down
10989	IMMT	inner membrane mitochondrial protein	-0.901	3.703	Down
51318	MRPL35	mitochondrial ribosomal protein L35	-0.994	4.554	Down
1.03E+08	LOC102724642	anaphase-promoting complex subunit 1-like	-0.542	2.201	Down
1.05E+08	LOC105374848	uncharacterized LOC105374848	-2.306	1.721	Down
1.02E+08	LINC01943	long intergenic non-protein coding RNA 1943	-3.796	17.526	Down
112597	CYTOR	cytoskeleton regulator RNA	-1.609	6.377	Down
730268	ANAPC1P4	ANAPC1 pseudogene 4	-0.375	1.767	Down
22934	RPIA	ribose 5-phosphate isomerase A	-1.166	9.423	Down
64969	MRPS5	mitochondrial ribosomal protein S5	-0.632	5.568	Down
150763	GPAT2	glycerol-3-phosphate acyltransferase 2, mitochondrial	-1.565	4.902	Down
1844	DUSP2	dual specificity phosphatase 2	-3.277	18.769	Down
56910	STARD7	StAR related lipid transfer domain containing 7	-0.584	2.977	Down
285033	STARD7-AS1	STARD7 antisense RNA 1	-0.526	1.582	Down
150771	ITPRIPL1	ITPRIP like 1	-1.511	9.753	Down
23397	NCAPH	non-SMC condensin I complex subunit H	-0.891	1.953	Down
93082	NEURL3	neuralized E3 ubiquitin protein ligase 3	-1.876	1.432	Down
10865	ARID5A	AT-rich interaction domain 5A	-1.675	4.563	Down
26504	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4	-0.591	2.692	Down
51239	ANKRD39	ankyrin repeat domain 39	-1.508	9.747	Down
1329	COX5B	cytochrome c oxidase subunit 5B	-0.65	1.579	Down

129531	MITD1	microtubule interacting and trafficking domain containing 1	-0.901	4.329	Down
10190	TXNDC9	thioredoxin domain containing 9	-0.537	1.445	Down
9669	EIF5B	eukaryotic translation initiation factor 5B	-1.151	3.75	Down
79031	PDCL3	phosducin like 3	-0.808	6.337	Down
55571	CNOT11	CCR4-NOT transcription complex subunit 11	-0.427	2.134	Down
7850	IL1R2	interleukin 1 receptor type 2	-1.74	1.722	Down
3554	IL1R1	interleukin 1 receptor type 1	-1.029	1.331	Down
8808	IL1RL2	interleukin 1 receptor like 2	-2.142	2.025	Down
9173	IL1RL1	interleukin 1 receptor like 1	-1.618	1.446	Down
8809	IL18R1	interleukin 18 receptor 1	-1.149	5.36	Down
8807	IL18RAP	interleukin 18 receptor accessory protein	-2.538	5.615	Down
64965	MRPS9	mitochondrial ribosomal protein S9	-0.65	2.858	Down
1.02E+08	MRPS9-AS1	MRPS9 antisense RNA 1	-0.726	2.607	Down
402096	ANAPC1P6	ANAPC1 pseudogene 6	-0.698	1.562	Down
4867	NPHP1	nephrocystin 1	-2.058	2.32	Down
205251	MTLN	mitoregulin	-0.783	4.186	Down
699	BUB1	BUB1 mitotic checkpoint serine/threonine kinase	-0.648	1.881	Down
10018	BCL2L11	BCL2 like 11	-0.593	3.661	Down
541471	MIR4435-2HG	MIR4435-2 host gene	-2.292	9.989	Down
1.05E+08	SOCAR	serous ovarian cancer associated RNA	-3.971	17.116	Down
64682	ANAPC1	anaphase promoting complex subunit 1	-0.541	3.11	Down
84172	POLR1B	RNA polymerase I subunit B	-0.803	1.751	Down
150468	CKAP2L	cytoskeleton associated protein 2 like	-3.684	7.836	Down
150472	ZNG1B	Zn regulated GTPase metalloprotein activator 1B	-1.099	13.226	Down
10096	ACTR3	actin related protein 3	-1.21	7.866	Down
8886	DDX18	DEAD-box helicase 18	-0.444	1.988	Down
1622	DBI	diazepam binding inhibitor, acyl-CoA binding protein	-1.116	5.275	Down
1.05E+08	LOC105373582	uncharacterized LOC105373582	-2.099	2.651	Down

79134	TMEM185B	transmembrane protein 185B	-0.698	6.951	Down
5899	RALB	RAS like proto-oncogene B	-1.739	24.008	Down
84365	NIFK	nucleolar protein interacting with the FHA domain of MKI67	-0.926	4.718	Down
55677	IWS1	interacts with SUPT6H, CTD assembly factor 1	-0.664	2.06	Down
5433	POLR2D	RNA polymerase II subunit D	-0.958	5.846	Down
83607	AMMECR1L	AMMECR1 like	-0.518	1.559	Down
9394	HS6ST1	heparan sulfate 6-O-sulfotransferase 1	-0.763	8.481	Down
728378	POTEF	POTE ankyrin domain family member F	-1.591	4.153	Down
55627	SMPD4	sphingomyelin phosphodiesterase 4	-0.405	1.741	Down
92856	IMP4	IMP U3 small nucleolar ribonucleoprotein 4	-0.904	6.873	Down
653269	POTEI	POTE ankyrin domain family member I	-1.542	4.517	Down
653781	POTEJ	POTE ankyrin domain family member J	-1.607	4.172	Down
445582	POTEE	POTE ankyrin domain family member E	-1.587	4.675	Down
401010	NOC2LP2	NOC2 like nucleolar associated transcriptional repressor pseudogene 2	-1.94	6.947	Down
440915	POTEKP	POTE ankyrin domain family member K, pseudogene	-1.637	5.136	Down
4175	MCM6	minichromosome maintenance complex component 6	-1.322	10.766	Down
1.05E+08	LOC105373645	uncharacterized LOC105373645	-2.813	1.629	Down
79712	GTDC1	glycosyltransferase like domain containing 1	-0.492	2.13	Down
55660	PRPF40A	pre-mRNA processing factor 40 homolog A	-0.619	3.684	Down
4929	NR4A2	nuclear receptor subfamily 4 group A member 2	-1.973	2.446	Down
2820	GPD2	glycerol-3-phosphate dehydrogenase 2	-0.698	3.318	Down
9595	CYTIP	cytohesin 1 interacting protein	-1.456	10.791	Down
1.05E+08	LOC105373712	uncharacterized LOC105373712	-2.003	3.338	Down
1.01E+08	MIR4785	microRNA 4785	-1.521	1.639	Down
10010	TANK	TRAF family member associated NFKB activator	-1.212	8.078	Down
10213	PSMD14	proteasome 26S subunit, non-ATPase 14	-2.309	33.551	Down
64135	IFIH1	interferon induced with helicase C domain 1	-0.883	3.685	Down
27347	STK39	serine/threonine kinase 39	-0.459	1.619	Down

57405	SPC25	SPC25 component of NDC80 kinetochore complex	-2.09	1.333	Down
79675	FASTKD1	FAST kinase domains 1	-1.09	1.933	Down
6741	SSB	small RNA binding exonuclease protection factor La	-0.743	7.389	Down
29081	METTL5	methyltransferase 5, N6-adenosine	-0.734	2.895	Down
8604	SLC25A12	solute carrier family 25 member 12	-0.753	3.81	Down
8520	HAT1	histone acetyltransferase 1	-0.866	4.379	Down
51776	MAP3K20	mitogen-activated protein kinase kinase kinase 20	-1.247	2.859	Down
339751	MAP3K20-AS1	MAP3K20 antisense RNA 1	-1.958	3.245	Down
83879	CDCA7	cell division cycle associated 7	-1.67	5.409	Down
29789	OLA1	Obg like ATPase 1	-0.697	2.205	Down
518	ATP5MC3	ATP synthase membrane subunit c locus 3	-1.124	6.634	Down
10651	MTX2	metaxin 2	-1.035	5.617	Down
220988	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	-1.086	10.296	Down
1.01E+08	MIR4444-1	microRNA 4444-1	-1.506	14.204	Down
8540	AGPS	alkylglycerone phosphate synthase	-0.987	7.382	Down
129831	RBM45	RNA binding motif protein 45	-0.751	4.945	Down
8575	PRKRA	protein activator of interferon induced protein kinase EIF2AK2	-0.576	1.792	Down
54431	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10	-0.542	3.043	Down
10787	NCKAP1	NCK associated protein 1	-0.729	2.373	Down
129401	NUP35	nucleoporin 35	-1.178	4.523	Down
55854	ZC3H15	zinc finger CCCH-type containing 15	-0.664	4.73	Down
84128	WDR75	WD repeat domain 75	-1.157	10.856	Down
5378	PMS1	PMS1 homolog 1, mismatch repair system component	-0.36	1.565	Down
26275	HIBCH	3-hydroxyisobutyryl-CoA hydrolase	-1.136	7.248	Down
4664	NAB1	NGFI-A binding protein 1	-1.283	5.45	Down
2744	GLS	glutaminase	-0.984	6.766	Down
6772	STAT1	signal transducer and activator of transcription 1	-1.485	6.281	Down
4430	MYO1B	myosin IB	-4.648	15.854	Down

64859	NABP1	nucleic acid binding protein 1	-1.875	7.156	Down
1.02E+08	LOC101927454	uncharacterized LOC101927454	-0.618	1.856	Down
57520	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	-3.399	8.494	Down
9330	GTF3C3	general transcription factor IIIC subunit 3	-0.525	3.162	Down
23451	SF3B1	splicing factor 3b subunit 1	-0.447	2.823	Down
80219	COQ10B	coenzyme Q10B	-0.693	3.457	Down
3329	HSPD1	heat shock protein family D (Hsp60) member 1	-2.213	21.653	Down
1.07E+08	SNORA105B	small nucleolar RNA, H/ACA box 105B	-2.288	23.278	Down
1.01E+08	HSPE1-MOB4	HSPE1-MOB4 readthrough	-1.235	11.029	Down
3336	HSPE1	heat shock protein family E (Hsp10) member 1	-2.343	25.855	Down
92935	MARS2	methionyl-tRNA synthetase 2, mitochondrial	-0.782	2.23	Down
348751	FTCDNL1	formiminotransferase cyclodeaminase N-terminal like	-1.166	1.977	Down
79568	MAIP1	matrix AAA peptidase interacting protein 1	-1.126	6.339	Down
1.02E+08	BZW1-AS1	BZW1 antisense RNA 1	-1.257	12.407	Down
9689	BZW1	basic leucine zipper and W2 domains 1	-1.241	9.704	Down
8837	CFLAR	CASP8 and FADD like apoptosis regulator	-1.289	5.308	Down
65072	CFLAR-AS1	CFLAR antisense RNA 1	-2.297	32.969	Down
57679	ALS2	alsin Rho guanine nucleotide exchange factor ALS2	-0.638	2.197	Down
51602	NOP58	NOP58 ribonucleoprotein	-1.367	13.965	Down
130026	ICA1L	islet cell autoantigen 1 like	-1.009	2.725	Down
55759	WDR12	WD repeat domain 12	-2.166	51.377	Down
65059	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	-1.747	2.854	Down
940	CD28	CD28 molecule	-0.642	3.57	Down
1493	CTLA4	cytotoxic T-lymphocyte associated protein 4	-5.017	26.892	Down
1.02E+08	LOC101927840	uncharacterized LOC101927840	-2.475	4.838	Down
29851	ICOS	inducible T cell costimulator	-2.867	36.81	Down
4719	NDUFS1	NADH:ubiquinone oxidoreductase core subunit S1	-0.291	1.783	Down
22868	FASTKD2	FAST kinase domains 2	-1.11	6.988	Down

130749	CPO	carboxypeptidase O	-0.581	1.73	Down
7855	FZD5	frizzled class receptor 5	-0.701	1.844	Down
6120	RPE	ribulose-5-phosphate-3-epimerase	-0.41	1.379	Down
471	ATIC	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	-1.222	7.481	Down
7520	XRCC5	X-ray repair cross complementing 5	-1.129	7.838	Down
50485	SMARCAL1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a like 1	-0.394	1.972	Down
1.01E+08	RPL37A-DT	RPL37A divergent transcript	-1.269	1.51	Down
1.02E+08	LOC101928487	uncharacterized LOC101928487	-1.955	3.836	Down
10109	ARPC2	actin related protein 2/3 complex subunit 2	-0.698	2.94	Down
14	AAMP	angio associated migratory cell protein	-0.68	4.017	Down
57695	USP37	ubiquitin specific peptidase 37	-0.382	3.726	Down
9125	CNOT9	CCR4-NOT transcription complex subunit 9	-1.013	13.327	Down
617	BCS1L	BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone	-1.385	6.487	Down
9654	TTLL4	tubulin tyrosine ligase like 4	-0.646	1.843	Down
79840	NHEJ1	non-homologous end joining factor 1	-0.628	1.506	Down
10058	ABCB6	ATP binding cassette subfamily B member 6 (Langereis blood group)	-1.684	6.583	Down
7277	TUBA4A	tubulin alpha 4a	-1.077	10.994	Down
80086	TUBA4B	tubulin alpha 4b	-0.96	2.693	Down
23549	DNPEP	aspartyl aminopeptidase	-1.183	10.994	Down
29926	GMPPA	GDP-mannose pyrophosphorylase A	-0.935	5.356	Down
79586	CHPF	chondroitin polymerizing factor	-1.596	20.811	Down
130612	TMEM198	transmembrane protein 198	-1.68	3.65	Down
130367	SGPP2	sphingosine-1-phosphate phosphatase 2	-1.419	4.197	Down
10056	FARSB	phenylalanyl-tRNA synthetase subunit beta	-1.478	13.97	Down
130340	AP1S3	adaptor related protein complex 1 subunit sigma 3	-2.691	6.449	Down
57590	WDFY1	WD repeat and FYVE domain containing 1	-0.526	3.458	Down
65080	MRPL44	mitochondrial ribosomal protein L44	-0.514	2.261	Down
84236	RHBDD1	rhomboid domain containing 1	-0.435	1.569	Down

1.01E+08	MIR5703	microRNA 5703	-1.534	1.548	Down
3267	AGFG1	ArfGAP with FG repeats 1	-1.16	11.217	Down
6364	CCL20	C-C motif chemokine ligand 20	-3.799	5.095	Down
3431	SP110	SP110 nuclear body protein	-0.468	1.592	Down
51719	CAB39	calcium binding protein 39	-0.471	3.677	Down
348761	SPATA3-AS1	SPATA3 antisense RNA 1 (head to head)	-3.574	5.392	Down
5707	PSMD1	proteasome 26S subunit, non-ATPase 1	-1.818	66.739	Down
4691	NCL	nucleolin	-1.339	9.003	Down
5147	PDE6D	phosphodiesterase 6D	-0.48	1.454	Down
64708	COPS7B	COP9 signalosome subunit 7B	-0.423	2.859	Down
129563	DIS3L2	DIS3 like 3'-5' exoribonuclease 2	-0.685	1.7	Down
55355	HJURP	Holliday junction recognition protein	-1.837	1.637	Down
1293	COL6A3	collagen type VI alpha 3 chain	-1.901	3.869	Down
9208	LRRFIP1	LRR binding FLII interacting protein 1	-0.868	9.738	Down
1.01E+08	UBE2F-SCLY	UBE2F-SCLY readthrough (NMD candidate)	-0.95	5.689	Down
140739	UBE2F	ubiquitin conjugating enzyme E2 F (putative)	-0.776	4.333	Down
51540	SCLY	selenocysteine lyase	-1.22	5.872	Down
80895	ILKAP	ILK associated serine/threonine phosphatase	-0.447	2.146	Down
643387	TARDBPP3	TARDBP pseudogene 3	-0.563	1.412	Down
55502	HES6	hes family bHLH transcription factor 6	-1.615	3.359	Down
8864	PER2	period circadian regulator 2	-0.725	1.904	Down
2817	GPC1	glypican 1	-2.292	3.116	Down
547	KIF1A	kinesin family member 1A	-4.408	4.472	Down
4735	SEPTIN2	septin 2	-0.584	3.296	Down
9855	FARP2	FERM, ARH/RhoGEF and pleckstrin domain protein 2	-0.524	1.563	Down
10494	STK25	serine/threonine kinase 25	-0.325	1.455	Down
1841	DTYMK	deoxythymidylate kinase	-1.469	5.209	Down
5133	PDCD1	programmed cell death 1	-2.211	9.841	Down

1.05E+08	LOC105373977	uncharacterized LOC105373977	-1.929	4.063	Down
6419	SETMAR	SET domain and mariner transposase fusion gene	-0.615	4.45	Down
1.01E+08	BHLHE40-AS1	BHLHE40 antisense RNA 1	-1.725	9.036	Down
8553	BHLHE40	basic helix-loop-helix family member e40	-2.203	11.791	Down
56852	RAD18	RAD18 E3 ubiquitin protein ligase	-0.455	2.668	Down
25917	THUMPD3	THUMP domain containing 3	-0.354	2.28	Down
440944	THUMPD3-AS1	THUMPD3 antisense RNA 1	-0.459	1.655	Down
4968	OGG1	8-oxoguanine DNA glycosylase	-0.455	1.788	Down
8536	CAMK1	calcium/calmodulin dependent protein kinase I	-0.881	2.431	Down
10093	ARPC4	actin related protein 2/3 complex subunit 4	-0.624	2.744	Down
1.01E+08	ARPC4-TTLL3	ARPC4-TTLL3 readthrough	-0.529	3.906	Down
285367	RPUSD3	RNA pseudouridine synthase D3	-1.072	4.746	Down
3656	IRAK2	interleukin 1 receptor associated kinase 2	-1.15	3.126	Down
6396	SEC13	SEC13 homolog, nuclear pore and COPII coat complex component	-1.139	6.212	Down
3269	HRH1	histamine receptor H1	-3.821	12.072	Down
132001	TAMM41	TAM41 mitochondrial translocator assembly and maintenance homolog	-0.888	2.011	Down
5468	PPARG	peroxisome proliferator activated receptor gamma	-2.031	1.641	Down
131474	CHCHD4	coiled-coil-helix-coiled-coil-helix domain containing 4	-0.625	2.206	Down
27258	LSM3	LSM3 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.687	2.391	Down
131965	METTL6	methyltransferase 6, methylcytidine	-0.463	1.849	Down
85403	EAF1	ELL associated factor 1	-0.538	2.194	Down
6304	SATB1	SATB homeobox 1	-0.919	1.948	Down
151651	EFHB	EF-hand domain family member B	-0.528	1.48	Down
5868	RAB5A	RAB5A, member RAS oncogene family	-0.435	1.753	Down
151648	SGO1	shugoshin 1	-1.176	1.349	Down
7324	UBE2E1	ubiquitin conjugating enzyme E2 E1	-0.593	2.252	Down
114884	OSBPL10	oxysterol binding protein like 10	-3.718	3.96	Down
51143	DYNC1LI1	dynein cytoplasmic 1 light intermediate chain 1	-0.614	5.141	Down

1.05E+08	LOC105377022	replaced by ID 2720	-1.839	2.902	Down
1.08E+08	LOC107986072	uncharacterized LOC107986072	-2.011	3.57	Down
4292	MLH1	mutL homolog 1	-0.699	8.332	Down
30	ACAA1	acetyl-CoA acyltransferase 1	-0.364	1.323	Down
64651	CSRNP1	cysteine and serine rich nuclear protein 1	-2.197	29.147	Down
165904	XIRP1	xin actin binding repeat containing 1	-2.638	1.439	Down
25994	HIGD1A	HIG1 hypoxia inducible domain family member 1A	-1.214	8.845	Down
51099	ABHD5	abhydrolase domain containing 5, lysophosphatidic acid acyltransferase	-0.976	6.603	Down
7584	ZNF35	zinc finger protein 35	-1.016	1.321	Down
23016	EXOSC7	exosome component 7	-0.924	8.982	Down
23395	LARS2	leucyl-tRNA synthetase 2, mitochondrial	-1.03	6.656	Down
1230	CCR1	C-C motif chemokine receptor 1	-1.654	2.999	Down
1234	CCR5	C-C motif chemokine receptor 5	-1.299	2.132	Down
9034	CCRL2	C-C motif chemokine receptor like 2	-1.018	1.42	Down
151903	CCDC12	coiled-coil domain containing 12	-0.423	1.409	Down
64147	KIF9	kinesin family member 9	-1.13	2.124	Down
23276	KLHL18	kelch like family member 18	-0.715	3.546	Down
54859	ELP6	elongator acetyltransferase complex subunit 6	-0.538	1.316	Down
6599	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily c member 1	-0.412	2.169	Down
22907	DHX30	DExH-box helicase 30	-0.829	7.352	Down
4134	MAP4	microtubule associated protein 4	-0.985	2.43	Down
993	CDC25A	cell division cycle 25A	-4.009	14.9	Down
5364	PLXNB1	plexin B1	-1.835	2.956	Down
79714	CCDC51	coiled-coil domain containing 51	-0.414	1.335	Down
7384	UQCRC1	ubiquinol-cytochrome c reductase core protein 1	-0.985	4.876	Down
788	SLC25A20	solute carrier family 25 member 20	-0.686	4.249	Down
10425	ARIH2	ariadne RBR E3 ubiquitin protein ligase 2	-0.488	7.852	Down
25915	NDUFAF3	NADH:ubiquinone oxidoreductase complex assembly factor 3	-0.977	4.704	Down

3615	IMPDH2	inosine monophosphate dehydrogenase 2	-1.22	5.005	Down
387	RHOA	ras homolog family member A	-0.522	1.632	Down
29925	GMPPB	GDP-mannose pyrophosphorylase B	-1.395	11.254	Down
132228	LSMEM2	leucine rich single-pass membrane protein 2	-2.297	17.677	Down
7866	IFRD2	interferon related developmental regulator 2	-2.293	30.301	Down
8372	HYAL3	hyaluronidase 3	-0.669	1.897	Down
8692	HYAL2	hyaluronidase 2	-1.885	9.748	Down
51161	C3orf18	chromosome 3 open reading frame 18	-1.094	2.536	Down
1154	CISH	cytokine inducible SH2 containing protein	-2.471	2.951	Down
7867	MAPKAPK3	MAPK activated protein kinase 3	-2.189	16.078	Down
7873	MANF	mesencephalic astrocyte derived neurotrophic factor	-1.721	10.132	Down
9136	RRP9	ribosomal RNA processing 9, U3 small nucleolar RNA binding protein	-2.039	26.649	Down
1.01E+08	ABHD14A-ACY1	ABHD14A-ACY1 readthrough	-0.723	2.207	Down
95	ACY1	aminoacylase 1	-2.303	12.553	Down
25886	POC1A	POC1 centriolar protein A	-1.503	3.761	Down
211	ALAS1	5'-aminolevulinate synthase 1	-1.013	5.886	Down
11344	TWF2	twinfilin actin binding protein 2	-0.721	4.383	Down
64943	NT5DC2	5'-nucleotidase domain containing 2	-2.155	7.527	Down
26354	GNL3	G protein nucleolar 3	-1.265	10.49	Down
5580	PRKCD	protein kinase C delta	-0.632	1.76	Down
7086	TKT	transketolase	-0.965	5.327	Down
55802	DCP1A	decapping mRNA 1A	-0.628	4.33	Down
776	CACNA1D	calcium voltage-gated channel subunit alpha1 D	-2.886	1.891	Down
55540	IL17RB	interleukin 17 receptor B	-1.202	2.259	Down
58515	SELENOK	selenoprotein K	-1.184	5.156	Down
201626	PDE12	phosphodiesterase 12	-0.773	4.145	Down
378	ARF4	ADP ribosylation factor 4	-0.907	2.816	Down
57415	C3orf14	chromosome 3 open reading frame 14	-1.634	1.441	Down

80145	THOC7	THO complex subunit 7	-0.769	1.723	Down
9861	PSMD6	proteasome 26S subunit, non-ATPase 6	-1.361	22.032	Down
84541	KBTBD8	kelch repeat and BTB domain containing 8	-1.984	18.541	Down
23150	FRMD4B	FERM domain containing 4B	-3.371	10.402	Down
23429	RYBP	RING1 and YY1 binding protein	-0.596	5.247	Down
151987	PPP4R2	protein phosphatase 4 regulatory subunit 2	-0.61	2.351	Down
1.01E+08	MIR4444-2	microRNA 4444-2	-1.736	8.369	Down
2632	GBE1	1,4-alpha-glucan branching enzyme 1	-0.989	2.266	Down
25978	CHMP2B	charged multivesicular body protein 2B	-0.538	3.622	Down
200894	ARL13B	ADP ribosylation factor like GTPase 13B	-0.678	1.713	Down
84864	RIOX2	ribosomal oxygenase 2	-0.827	6.389	Down
56650	CLDND1	claudin domain containing 1	-1.101	5.382	Down
1371	CPOX	coproporphyrinogen oxidase	-1.325	9.601	Down
1.02E+08	HP09053	uncharacterized LOC101929357	-1.678	8.541	Down
84319	CMSS1	cms1 ribosomal small subunit homolog	-1.761	12.925	Down
56954	NIT2	nitrilase family member 2	-0.519	3.7	Down
9868	TOMM70	translocase of outer mitochondrial membrane 70	-0.612	4.389	Down
10342	TFG	trafficking from ER to golgi regulator	-0.756	5.525	Down
54931	TRMT10C	tRNA methyltransferase 10C, mitochondrial RNase P subunit	-0.746	3.145	Down
285359	PDCL3P4	PDCL3 pseudogene 4	-0.812	1.936	Down
1.05E+08	LOC105374027	uncharacterized LOC105374027	-2.027	1.856	Down
1.02E+08	LINC01215	long intergenic non-protein coding RNA 1215	-0.641	1.37	Down
55081	IFT57	intraflagellar transport 57	-1.597	12.512	Down
11148	HHLA2	HERV-H LTR-associating 2	-3.165	3.4	Down
57650	CIP2A	cellular inhibitor of PP2A	-1.945	15.34	Down
79413	ZBED2	zinc finger BED-type containing 2	-8.039	83.541	Down
4345	CD200	CD200 molecule	-1.369	1.988	Down
80218	NAA50	N-alpha-acetyltransferase 50, NatE catalytic subunit	-0.702	3.093	Down

523	ATP6V1A	ATPase H+ transporting V1 subunit A	-0.569	2.416	Down
79691	QTRT2	queuine tRNA-ribosyltransferase accessory subunit 2	-0.713	3.204	Down
8702	B4GALT4	beta-1,4-galactosyltransferase 4	-0.744	3.021	Down
1.01E+08	B4GALT4-AS1	B4GALT4 antisense RNA 1	-0.9	1.655	Down
57514	ARHGAP31	Rho GTPase activating protein 31	-0.998	1.332	Down
55254	TMEM39A	transmembrane protein 39A	-0.502	2.363	Down
10063	COX17	cytochrome c oxidase copper chaperone COX17	-1.483	12.277	Down
116064	LRRC58	leucine rich repeat containing 58	-0.332	1.701	Down
4710	NDUFB4	NADH:ubiquinone oxidoreductase subunit B4	-0.416	1.303	Down
131076	MIX23	mitochondrial matrix import factor 23	-1.721	8.084	Down
10954	PDIA5	protein disulfide isomerase family A member 5	-1.899	10.621	Down
7372	UMPS	uridine monophosphate synthetase	-0.72	3.337	Down
84561	SLC12A8	solute carrier family 12 member 8	-1.746	1.317	Down
8723	SNX4	sorting nexin 4	-0.602	2.705	Down
84303	CHCHD6	coiled-coil-helix-coiled-coil-helix domain containing 6	-1.172	3.581	Down
4171	MCM2	minichromosome maintenance complex component 2	-2.235	43.758	Down
1.08E+08	LOC107986126	uncharacterized LOC107986126	-2.098	23.39	Down
29927	SEC61A1	SEC61 translocon subunit alpha 1	-0.487	1.481	Down
8607	RUVBL1	RuvB like AAA ATPase 1	-1.259	14.057	Down
60678	EEFSEC	eukaryotic elongation factor, selenocysteine-tRNA specific	-0.55	4.23	Down
2624	GATA2	GATA binding protein 2	-1.092	2.226	Down
6184	RPN1	ribophorin I	-0.674	2.812	Down
7879	RAB7A	RAB7A, member RAS oncogene family	-0.837	3.779	Down
28976	ACAD9	acyl-CoA dehydrogenase family member 9	-1.314	24.087	Down
57501	CFAP92	cilia and flagella associated protein 92 (putative)	-1.154	6.807	Down
57461	ISY1	ISY1 splicing factor homolog	-0.535	1.862	Down
22820	COPG1	COPI coat complex subunit gamma 1	-0.664	3.636	Down
27032	ATP2C1	ATPase secretory pathway Ca2+ transporting 1	-0.541	4.351	Down

11222	MRPL3	mitochondrial ribosomal protein L3	-1.278	6.05	Down
1.05E+08	LOC105374114	uncharacterized LOC105374114	-1.371	4.694	Down
79876	UBA5	ubiquitin like modifier activating enzyme 5	-0.705	8.467	Down
55573	CDV3	CDV3 homolog	-0.589	3.282	Down
11073	TOPBP1	DNA topoisomerase II binding protein 1	-0.582	2.355	Down
58477	SRPRB	SRP receptor subunit beta	-0.974	3.059	Down
5096	PCCB	propionyl-CoA carboxylase subunit beta	-1.069	10.44	Down
55179	FAIM	Fas apoptotic inhibitory molecule	-1.102	3.395	Down
56945	MRPS22	mitochondrial ribosomal protein S22	-0.637	2.214	Down
9276	COPB2	COPI coat complex subunit beta 2	-0.503	1.624	Down
483	ATP1B3	ATPase Na+/K+ transporting subunit beta 3	-1.563	11.148	Down
54464	XRN1	5'-3' exoribonuclease 1	-0.567	2.309	Down
5359	PLSCR1	phospholipid scramblase 1	-1.38	7.397	Down
51714	SELENOT	selenoprotein T	-0.773	4.024	Down
6478	SIAH2	siah E3 ubiquitin protein ligase 2	-1.702	15.602	Down
29909	GPR171	G protein-coupled receptor 171	-1.445	5.53	Down
9934	P2RY14	purinergic receptor P2Y14	-1.8	2.127	Down
170506	DHX36	DEAH-box helicase 36	-0.355	2.41	Down
647033	PA2G4P4	proliferation-associated 2G4 pseudogene 4	-1.476	17.973	Down
85476	GFM1	G elongation factor mitochondrial 1	-0.837	4.28	Down
3840	KPNA4	karyopherin subunit alpha 4	-0.362	1.869	Down
8706	B3GALNT1	beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)	-1.308	2.67	Down
51068	NMD3	NMD3 ribosome export adaptor	-0.635	2.106	Down
84517	ACTRT3	actin related protein T3	-3.793	10.19	Down
200916	RPL22L1	ribosomal protein L22 like 1	-1.978	14.676	Down
64778	FNDC3B	fibronectin type III domain containing 3B	-0.606	1.426	Down
1.08E+08	LOC107986153		-1.291	1.717	Down
8743	TNFSF10	TNF superfamily member 10	-1.091	2.511	Down

1894	ECT2	epithelial cell transforming 2	-1.137	3.646	Down
86	ACTL6A	actin like 6A	-0.696	2.762	Down
57129	MRPL47	mitochondrial ribosomal protein L47	-1.307	9.234	Down
55486	PARL	presenilin associated rhomboid like	-0.446	1.345	Down
8893	EIF2B5	eukaryotic translation initiation factor 2B subunit epsilon	-0.409	3.037	Down
1173	AP2M1	adaptor related protein complex 2 subunit mu 1	-0.384	2.454	Down
10195	ALG3	ALG3 alpha-1,3- mannosyltransferase	-0.682	2.893	Down
1.11E+08	EEF1AKMT4	EEF1A lysine methyltransferase 4	-2.057	10.788	Down
1.11E+08	EEF1AKMT4-ECE2	EEF1AKMT4-ECE2 readthrough	-1.799	6.592	Down
5708	PSMD2	proteasome 26S subunit ubiquitin receptor, non-ATPase 2	-1.363	36.316	Down
1981	EIF4G1	eukaryotic translation initiation factor 4 gamma 1	-1.439	9.107	Down
5437	POLR2H	RNA polymerase II, I and III subunit H	-1.57	15.403	Down
6434	TRA2B	transformer 2 beta homolog	-1.401	14.313	Down
51726	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11	-1.818	26.153	Down
5984	RFC4	replication factor C subunit 4	-1.353	6.099	Down
604	BCL6	BCL6 transcription repressor	-0.444	1.456	Down
339929	LPP-AS2	LPP antisense RNA 2	-2.537	3.273	Down
9076	CLDN1	claudin 1	-4.305	3.382	Down
4976	OPA1	OPA1 mitochondrial dynamin like GTPase	-0.297	1.56	Down
79572	ATP13A3	ATPase 13A3	-0.368	1.352	Down
55341	LSG1	large 60S subunit nuclear export GTPase 1	-0.487	1.903	Down
152002	XXYLT1	xyloside xylosyltransferase 1	-0.58	1.924	Down
7037	TFRC	transferrin receptor	-2.127	8.153	Down
5130	PCYT1A	phosphate cytidylyltransferase 1A, choline	-0.781	4.071	Down
54965	PIGX	phosphatidylinositol glycan anchor biosynthesis class X	-0.613	1.605	Down
1.01E+08	NCBP2-AS1	NCBP2 antisense RNA 1	-0.784	2.372	Down
84223	IQCG	IQ motif containing G	-1.752	5.14	Down
7884	SLBP	stem-loop binding protein	-0.432	1.347	Down

3954	LETM1	leucine zipper and EF-hand containing transmembrane protein 1	-1.178	9.342	Down
401115	C4orf48	chromosome 4 open reading frame 48	-1.162	2.958	Down
79155	TNIP2	TNFAIP3 interacting protein 2	-1.29	13.654	Down
6452	SH3BP2	SH3 domain binding protein 2	-1.198	3.336	Down
10227	MFSD10	major facilitator superfamily domain containing 10	-0.566	2.612	Down
317648	NOP14-AS1	NOP14 antisense RNA 1	-0.537	1.827	Down
8602	NOP14	NOP14 nucleolar protein	-1.343	5.575	Down
3064	HTT	huntingtin	-0.552	1.311	Down
4043	LRPAP1	LDL receptor related protein associated protein 1	-0.425	1.644	Down
348926	FAM86EP	family with sequence similarity 86, member A pseudogene	-1.02	2.711	Down
55646	LYAR	Ly1 antibody reactive	-0.859	2.275	Down
80273	GRPEL1	GrpE like 1, mitochondrial	-1.374	14.059	Down
8310	ACOX3	acyl-CoA oxidase 3, pristanoyl	-0.944	5.455	Down
152992	TRMT44	tRNA methyltransferase 44 homolog	-0.691	2.177	Down
9948	WDR1	WD repeat domain 1	-0.962	9.241	Down
9957	HS3ST1	heparan sulfate-glucosamine 3-sulfotransferase 1	-2.454	1.999	Down
952	CD38	CD38 molecule	-2.591	11.041	Down
5860	QDPR	quinoid dihydropteridine reductase	-0.697	4.026	Down
51056	LAP3	leucine aminopeptidase 3	-1.302	3.406	Down
64151	NCAPG	non-SMC condensin I complex subunit G	-1.489	3.36	Down
166647	ADGRA3	adhesion G protein-coupled receptor A3	-1.787	2.017	Down
1665	DHX15	DEAH-box helicase 15	-1.082	11.712	Down
55300	PI4K2B	phosphatidylinositol 4-kinase type 2 beta	-0.575	2.259	Down
1.03E+08	LOC102723733	uncharacterized LOC102723733	-1.53	2.833	Down
3516	RBPJ	recombination signal binding protein for immunoglobulin kappa J region	-0.652	1.83	Down
55276	PGM2	phosphoglucomutase 2	-0.91	7.46	Down
23216	TBC1D1	TBC1 domain family member 1	-0.456	1.344	Down
51088	KLHL5	kelch like family member 5	-0.788	2.596	Down

344967	LOC344967	acyl-CoA thioesterase 7 pseudogene	-1.398	2.222	Down
7345	UCHL1	ubiquitin C-terminal hydrolase L1	-2.641	2.102	Down
55161	TMEM33	transmembrane protein 33	-0.531	2.148	Down
60558	GUF1	GTP binding elongation factor GUF1	-0.534	2.172	Down
152519	NIPAL1	NIPA like domain containing 1	-1.185	2.011	Down
6443	SGCB	sarcoglycan beta	-0.71	4.409	Down
152579	SCFD2	sec1 family domain containing 2	-1.92	22.498	Down
55858	TMEM165	transmembrane protein 165	-1.079	8.249	Down
5471	PPAT	phosphoribosyl pyrophosphate amidotransferase	-0.718	2.434	Down
10606	PAICS	phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthase	-2.018	13.367	Down
6731	SRP72	signal recognition particle 72	-0.685	5.469	Down
84525	HOPX	HOP homeobox	-1.346	2.217	Down
55236	UBA6	ubiquitin like modifier activating enzyme 6	-0.529	4.258	Down
57050	UTP3	UTP3 small subunit processome component	-0.728	2.254	Down
441024	MTHFD2L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2 like	-1.179	3.856	Down
255324	EPGN	epithelial mitogen	-1.563	1.324	Down
374	AREG	amphiregulin	-2.872	3.776	Down
419	ART3	ADP-ribosyltransferase 3 (inactive)	-5.339	4.423	Down
3627	CXCL10	C-X-C motif chemokine ligand 10	-5.177	6.602	Down
6373	CXCL11	C-X-C motif chemokine ligand 11	-2.677	3.157	Down
55752	SEPTIN11	septin 11	-0.687	4.726	Down
10563	CXCL13	C-X-C motif chemokine ligand 13	-2.504	1.591	Down
65008	MRPL1	mitochondrial ribosomal protein L1	-1.115	6.299	Down
1.03E+08	LOC102724916	uncharacterized LOC102724916	-1.091	2.693	Down
56978	PRDM8	PR/SET domain 8	-1.145	2.567	Down
3184	HNRNPD	heterogeneous nuclear ribonucleoprotein D	-0.88	5.962	Down
9987	HNRNPDL	heterogeneous nuclear ribonucleoprotein D like	-1.105	9.572	Down

58478	ENOPH1	enolase-phosphatase 1	-0.646	2.457	Down
27235	COQ2	coenzyme Q2, polyprenyltransferase	-1.182	4.849	Down
10855	HPSE	heparanase	-0.456	3.778	Down
266812	NAP1L5	nucleosome assembly protein 1 like 5	-1.191	5.706	Down
10098	TSPAN5	tetraspanin 5	-0.806	3.863	Down
1977	EIF4E	eukaryotic translation initiation factor 4E	-0.842	3.869	Down
93587	TRMT10A	tRNA methyltransferase 10A	-0.721	3.745	Down
3015	H2AZ1	H2A.Z variant histone 1	-0.644	3.44	Down
64116	SLC39A8	solute carrier family 39 member 8	-0.83	2.015	Down
4790	NFKB1	nuclear factor kappa B subunit 1	-1.159	4.718	Down
1.03E+08	LOC102723704	uncharacterized LOC102723704	-0.927	6.761	Down
7323	UBE2D3	ubiquitin conjugating enzyme E2 D3	-0.705	3.405	Down
133308	SLC9B2	solute carrier family 9 member B2	-0.974	8.667	Down
27068	PPA2	inorganic pyrophosphatase 2	-0.68	1.45	Down
79807	GSTCD	glutathione S-transferase C-terminal domain containing	-0.525	1.781	Down
54433	GAR1	GAR1 ribonucleoprotein	-1.58	11.7	Down
79071	ELOVL6	ELOVL fatty acid elongase 6	-1.636	4.152	Down
1.08E+08	LOC107986303		-2.545	2.522	Down
132720	FAM241A	family with sequence similarity 241 member A	-2.215	7.591	Down
92610	TIFA	TRAF interacting protein with forkhead associated domain	-0.588	1.317	Down
55345	ZGRF1	zinc finger GRF-type containing 1	-0.857	1.439	Down
817	CAMK2D	calcium/calmodulin dependent protein kinase II delta	-0.854	3.12	Down
9871	SEC24D	SEC24 homolog D, COPII coat complex component	-0.922	4.979	Down
79931	TNIP3	TNFAIP3 interacting protein 3	-3.547	9.321	Down
5393	EXOSC9	exosome component 9	-0.788	8.303	Down
890	CCNA2	cyclin A2	-1.107	6.106	Down
59067	IL21	interleukin 21	-5.701	17.3	Down
1.01E+08	IL21-AS1	IL21 antisense RNA 1	-4.899	11.017	Down

10733	PLK4	polo like kinase 4	-0.956	2.133	Down
55132	LARP1B	La ribonucleoprotein 1B	-1.162	9.042	Down
25819	NOCT	nocturnin	-2.75	9.721	Down
80155	NAA15	N-alpha-acetyltransferase 15, NatA auxiliary subunit	-1.408	27.367	Down
8467	SMARCA5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5	-0.453	2.318	Down
10393	ANAPC10	anaphase promoting complex subunit 10	-0.743	2.965	Down
6059	ABCE1	ATP binding cassette subfamily E member 1	-1.177	7.476	Down
54726	OTUD4	OTU deubiquitinase 4	-0.691	3.727	Down
11157	LSM6	LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.645	2.064	Down
84068	SLC10A7	solute carrier family 10 member 7	-0.37	1.396	Down
5188	GATB	glutamyl-tRNA amidotransferase subunit B	-0.613	1.459	Down
84057	MND1	meiotic nuclear divisions 1	-3.001	2.371	Down
5356	PLRG1	pleiotropic regulator 1	-0.667	3.222	Down
201725	C4orf46	chromosome 4 open reading frame 46	-1.542	14.861	Down
2110	ETFDH	electron transfer flavoprotein dehydrogenase	-0.616	2.242	Down
5481	PPID	peptidylprolyl isomerase D	-0.558	3.797	Down
55319	TMA16	translation machinery associated 16 homolog	-1.298	9.329	Down
23520	ANP32C	acidic nuclear phosphoprotein 32 family member C	-1.012	2.108	Down
2713	GK3	glycerol kinase 3	-1.639	1.849	Down
6307	MSMO1	methylsterol monooxygenase 1	-0.967	4.068	Down
9848	MFAP3L	microfibril associated protein 3 like	-0.994	2.592	Down
8819	SAP30	Sin3A associated protein 30	-1.159	6.212	Down
116966	WDR17	WD repeat domain 17	-1.532	1.897	Down
1635	DCTD	dCMP deaminase	-0.557	1.829	Down
201965	RWDD4	RWD domain containing 4	-0.58	4.677	Down
1.05E+08	LINC02365	long intergenic non-protein coding RNA 2365	-4.687	7.639	Down
836	CASP3	caspase 3	-0.949	4.287	Down
79682	CENPU	centromere protein U	-1.781	11.784	Down

2180	ACSL1	acyl-CoA synthetase long chain family member 1	-0.737	1.697	Down
291	SLC25A4	solute carrier family 25 member 4	-0.851	2.597	Down
353322	ANKRD37	ankyrin repeat domain 37	-0.705	2.106	Down
11336	EXOC3	exocyst complex component 3	-0.679	3.407	Down
9319	TRIP13	thyroid hormone receptor interactor 13	-3.621	26.828	Down
7015	TERT	telomerase reverse transcriptase	-2.844	4.133	Down
64979	MRPL36	mitochondrial ribosomal protein L36	-0.874	3.115	Down
4726	NDUFS6	NADH:ubiquinone oxidoreductase subunit S6	-1.191	8.698	Down
54888	NSUN2	NOP2/Sun RNA methyltransferase 2	-0.927	14.002	Down
79072	FASTKD3	FAST kinase domains 3	-0.633	4.195	Down
134145	ATPSCKMT	ATP synthase c subunit lysine N-methyltransferase	-0.533	1.316	Down
22948	CCT5	chaperonin containing TCP1 subunit 5	-1.936	23.41	Down
90441	ZNF622	zinc finger protein 622	-0.422	1.341	Down
1.07E+08	SNORA105A	small nucleolar RNA, H/ACA box 105A	-2.182	20.149	Down
55322	C5orf22	chromosome 5 open reading frame 22	-0.526	3.773	Down
51663	ZFR	zinc finger RNA binding protein	-0.259	2.162	Down
10923	SUB1	SUB1 regulator of transcription	-0.914	2.989	Down
6897	TARS1	threonyl-tRNA synthetase 1	-2.151	3.449	Down
5810	RAD1	RAD1 checkpoint DNA exonuclease	-0.592	5.446	Down
55299	BRIX1	biogenesis of ribosomes BRX1	-1.53	20.159	Down
6507	SLC1A3	solute carrier family 1 member 3	-1.691	1.554	Down
9631	NUP155	nucleoporin 155	-0.745	3.33	Down
55100	WDR70	WD repeat domain 70	-0.556	1.848	Down
5734	PTGER4	prostaglandin E receptor 4	-2.538	50.416	Down
5019	OXCT1	3-oxoacid CoA-transferase 1	-0.922	10.464	Down
1.01E+08	OXCT1-AS1	OXCT1 antisense RNA 1	-1.064	2.515	Down
3157	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1	-2.038	19.459	Down
10605	PAIP1	poly(A) binding protein interacting protein 1	-0.465	2.821	Down

10884	MRPS30	mitochondrial ribosomal protein S30	-0.544	5.724	Down
53918	PELO	pelota mRNA surveillance and ribosome rescue factor	-0.813	3.767	Down
23517	MTREX	Mtr4 exosome RNA helicase	-0.68	3.889	Down
8611	PLPP1	phospholipid phosphatase 1	-1.19	4.278	Down
166968	MIER3	MIER family member 3	-0.3	1.381	Down
91942	NDUFAF2	NADH:ubiquinone oxidoreductase complex assembly factor 2	-1.222	5.97	Down
643155	SMIM15	small integral membrane protein 15	-0.576	3.778	Down
1.02E+08	SMIM15-AS1	SMIM15 antisense RNA 1	-0.556	1.428	Down
51194	IPO11	importin 11	-1.434	11.801	Down
1.01E+08	IPO11-LRRC70	IPO11-LRRC70 readthrough	-1.202	6.265	Down
10283	CWC27	CWC27 spliceosome associated cyclophilin	-0.928	7.556	Down
57486	NLN	neurolysin	-2.492	21.414	Down
891	CCNB1	cyclin B1	-1.726	8.566	Down
64946	CENPH	centromere protein H	-0.519	1.403	Down
92259	MRPS36	mitochondrial ribosomal protein S36	-0.918	4.465	Down
1022	CDK7	cyclin dependent kinase 7	-0.971	12.767	Down
1.02E+08	AK6	adenylate kinase 6	-1.496	12.948	Down
728340	GTF2H2C	GTF2H2 family member C	-1.361	11.297	Down
728492	SERF1B	small EDRK-rich factor 1B	-0.599	2.055	Down
6607	SMN2	survival of motor neuron 2, centromeric	-1.228	3.297	Down
653238	GTF2H2B	general transcription factor IIH subunit 2B (pseudogene)	-0.985	9.115	Down
8293	SERF1A	small EDRK-rich factor 1A	-0.567	1.831	Down
6606	SMN1	survival of motor neuron 1, telomeric	-1.217	3.717	Down
2966	GTF2H2	general transcription factor IIH subunit 2	-1.35	13.214	Down
64087	MCCC2	methylcrotonyl-CoA carboxylase subunit 2	-1.102	6.874	Down
84135	UTP15	UTP15 small subunit processome component	-1.257	11.437	Down
8507	ENC1	ectodermal-neural cortex 1	-1.873	5.76	Down
26049	FAM169A	family with sequence similarity 169 member A	-0.722	5.018	Down

3156	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase	-0.835	10.864	Down
8546	AP3B1	adaptor related protein complex 3 subunit beta 1	-0.511	4.934	Down
411	ARSB	arylsulfatase B	-1.305	3.029	Down
9456	HOMER1	homer scaffold protein 1	-2.087	14.992	Down
644936	LOC644936	actin beta pseudogene	-1.389	2.176	Down
441089	CRSP8P	mediator complex subunit 27 pseudogene	-1.479	7.649	Down
7518	XRCC4	X-ray repair cross complementing 4	-0.859	2.433	Down
5921	RASA1	RAS p21 protein activator 1	-0.511	1.526	Down
902	CCNH	cyclin H	-0.458	2.645	Down
10622	POLR3G	RNA polymerase III subunit G	-1.605	9.474	Down
1.01E+08	LUCAT1	lung cancer associated transcript 1	-2.023	2.514	Down
1E+08	ARRDC3-AS1	ARRDC3 antisense RNA 1	-1.611	1.625	Down
84250	SLF1	SMC5-SMC6 complex localization factor 1	-0.507	1.335	Down
22936	ELL2	elongation factor for RNA polymerase II 2	-2.325	34.052	Down
1.08E+08	LOC107986363	uncharacterized LOC107986363	-1.57	1.461	Down
55781	RIOK2	RIO kinase 2	-0.657	4.23	Down
345757	FAM174A	family with sequence similarity 174 member A	-0.741	2.981	Down
1.08E+08	LOC107986437	uncharacterized LOC107986437	-0.926	1.438	Down
134430	WDR36	WD repeat domain 36	-1.001	6.054	Down
6728	SRP19	signal recognition particle 19	-0.721	2.82	Down
5229	PGGT1B	protein geranylgeranyltransferase type I subunit beta	-0.497	2.415	Down
25816	TNFAIP8	TNF alpha induced protein 8	-0.437	1.692	Down
1.03E+08	LOC102723444	uncharacterized LOC102723444	-2.02	1.637	Down
153443	SRFBP1	serum response factor binding protein 1	-1.202	16.164	Down
1456	CSNK1G3	casein kinase 1 gamma 3	-0.458	3.755	Down
65983	GRAMD2B	GRAM domain containing 2B	-0.499	1.584	Down
51808	PHAX	phosphorylated adaptor for RNA export	-0.398	1.471	Down
4001	LMNB1	lamin B1	-0.707	1.576	Down

1.05E+08	LOC105379174	uncharacterized LOC105379174	-4.446	5.154	Down
3562	IL3	interleukin 3	-4.395	8.424	Down
1437	CSF2	colony stimulating factor 2	-6.081	10.761	Down
8974	P4HA2	prolyl 4-hydroxylase subunit alpha 2	-2.546	4.775	Down
6583	SLC22A4	solute carrier family 22 member 4	-1.956	2.179	Down
3567	IL5	interleukin 5	-6.506	5.23	Down
3596	IL13	interleukin 13	-7.023	6.725	Down
3565	IL4	interleukin 4	-7.792	11.368	Down
1.05E+08	LOC105379176	uncharacterized LOC105379176	-6.303	9.428	Down
11127	KIF3A	kinesin family member 3A	-0.707	2.18	Down
645121	CCNI2	cyclin I family member 2	-1.819	10.477	Down
23176	SEPTIN8	septin 8	-1.651	10.22	Down
134549	SHROOM1	shroom family member 1	-2.655	2.136	Down
2661	GDF9	growth differentiation factor 9	-1.228	4.234	Down
27089	UQCRQ	ubiquinol-cytochrome c reductase complex III subunit VII	-1.346	5.591	Down
3308	HSPA4	heat shock protein family A (Hsp70) member 4	-1.268	23.976	Down
7416	VDAC1	voltage dependent anion channel 1	-2.031	22.208	Down
5515	PPP2CA	protein phosphatase 2 catalytic subunit alpha	-0.565	2.416	Down
1.01E+08	MIR3661	microRNA 3661	-0.641	4.585	Down
51128	SAR1B	secretion associated Ras related GTPase 1B	-0.597	4.611	Down
10802	SEC24A	SEC24 homolog A, COPII coat complex component	-1.142	11.891	Down
1.01E+08	PITX1-AS1	PITX1 antisense RNA 1	-0.898	4.01	Down
9555	MACROH2A1	macroH2A.1 histone	-0.883	4.813	Down
3578	IL9	interleukin 9	-7.546	5.786	Down
51307	FAM53C	family with sequence similarity 53 member C	-0.346	1.616	Down
51308	REEP2	receptor accessory protein 2	-2.216	2.802	Down
1958	EGR1	early growth response 1	-4.565	29.327	Down
2107	ETF1	eukaryotic translation termination factor 1	-1.671	14.648	Down

3313	HSPA9	heat shock protein family A (Hsp70) member 9	-1.62	29.29	Down
1.05E+08	LOC105379193	uncharacterized LOC105379193	-1.709	27.073	Down
9782	MATR3	matrin 3	-0.259	1.999	Down
724102	SNHG4	small nucleolar RNA host gene 4	-1.228	3.843	Down
51237	MZB1	marginal zone B and B1 cell specific protein	-2.463	2.936	Down
389333	PROB1	proline rich basic protein 1	-2.964	13.783	Down
202051	SPATA24	spermatogenesis associated 24	-1.744	5.197	Down
202052	DNAJC18	DnaJ heat shock protein family (Hsp40) member C18	-1.484	8.317	Down
641700	ECSCR	endothelial cell surface expressed chemotaxis and apoptosis regulator	-2.963	2.192	Down
84418	CYSTM1	cysteine rich transmembrane module containing 1	-1.101	4.751	Down
1839	HBEGF	heparin binding EGF like growth factor	-4.117	8.29	Down
10011	SRA1	steroid receptor RNA activator 1	-1.439	7.551	Down
113829	SLC35A4	solute carrier family 35 member A4	-0.536	1.967	Down
3035	HARS1	histidyl-tRNA synthetase 1	-1.02	9.593	Down
8841	HDAC3	histone deacetylase 3	-0.275	1.454	Down
10007	GNPDA1	glucosamine-6-phosphate deaminase 1	-1.55	17.986	Down
81848	SPRY4	sprouty RTK signaling antagonist 4	-5.503	7.595	Down
51520	LARS1	leucyl-tRNA synthetase 1	-0.871	6.896	Down
10915	TCERG1	transcription elongation regulator 1	-0.871	3.38	Down
22993	HMGXB3	HMG-box containing 3	-0.442	2.312	Down
6949	TCOF1	treacle ribosome biogenesis factor 1	-1.089	1.683	Down
55696	RBM22	RNA binding motif protein 22	-0.416	2.042	Down
475	ATOX1	antioxidant 1 copper chaperone	-0.953	3.242	Down
1.01E+08	LOC100652758	uncharacterized LOC100652758	-0.811	2.747	Down
10146	G3BP1	G3BP stress granule assembly factor 1	-0.973	4.121	Down
55568	GALNT10	polypeptide N-acetylgalactosaminyltransferase 10	-0.588	3.025	Down
1.08E+08	LOC107986465	uncharacterized LOC107986465	-1.675	3.981	Down
23367	LARP1	La ribonucleoprotein 1, translational regulator	-0.665	1.588	Down

10826	FAXDC2	fatty acid hydroxylase domain containing 2	-0.623	1.816	Down
25929	GEMIN5	gem nuclear organelle associated protein 5	-0.701	3.534	Down
29093	MRPL22	mitochondrial ribosomal protein L22	-1.112	5.856	Down
84868	HAVCR2	hepatitis A virus cellular receptor 2	-2.085	11.844	Down
408263	FNDC9	fibronectin type III domain containing 9	-3.854	3.207	Down
348938	NIPAL4	NIPA like domain containing 4	-3.041	3.236	Down
134353	LSM11	LSM11, U7 small nuclear RNA associated	-0.465	2.959	Down
3593	IL12B	interleukin 12B	-4.198	1.684	Down
7265	TTC1	tetratricopeptide repeat domain 1	-0.696	2.051	Down
9232	PTTG1	PTTG1 regulator of sister chromatid separation, securin	-1.31	8.206	Down
1.07E+08	MIR3142HG	MIR3142 host gene	-1.577	3.35	Down
406938	MIR146A	microRNA 146a	-2.588	2.019	Down
3161	HMMR	hyaluronan mediated motility receptor	-3.562	5.821	Down
5917	RARS1	arginyl-tRNA synthetase 1	-1.268	11.928	Down
79646	PANK3	pantothenate kinase 3	-0.592	2.256	Down
54908	SPDL1	spindle apparatus coiled-coil protein 1	-0.564	2.233	Down
133874	C5orf58	chromosome 5 open reading frame 58	-0.794	1.969	Down
3937	LCP2	lymphocyte cytosolic protein 2	-0.785	2.167	Down
1E+08	LOC100128059	uncharacterized LOC100128059	-4.713	5.425	Down
51121	RPL26L1	ribosomal protein L26 like 1	-1.415	5.903	Down
662	BNIP1	BCL2 interacting protein 1	-1.393	6.742	Down
8614	STC2	stanniocalcin 2	-3.629	3.412	Down
80315	CPEB4	cytoplasmic polyadenylation element binding protein 4	-0.968	13.653	Down
94081	SFXN1	sideroflexin 1	-1.574	12.48	Down
3274	HRH2	histamine receptor H2	-3.774	29.534	Down
1.05E+08	LOC105377743	uncharacterized LOC105377743	-3.042	1.512	Down
51491	NOP16	NOP16 nucleolar protein	-1.62	13.395	Down
1212	CLTB	clathrin light chain B	-0.804	5.858	Down

23197	FAF2	Fas associated factor family member 2	-0.695	5.926	Down
114787	GPRIN1	G protein regulated inducer of neurite outgrowth 1	-2.296	5.496	Down
26262	TSPAN17	tetraspanin 17	-1.685	34.24	Down
2264	FGFR4	fibroblast growth factor receptor 4	-3.363	4.946	Down
27166	PRELID1	PRELI domain containing 1	-1.438	8.054	Down
83463	MXD3	MAX dimerization protein 3	-1.356	7.515	Down
2161	F12	coagulation factor XII	-5.198	5.948	Down
80758	PRR7	proline rich 7, synaptic	-1.69	7.882	Down
1627	DBN1	drebrin 1	-2.968	10.22	Down
51428	DDX41	DEAD-box helicase 41	-0.796	5.077	Down
54732	TMED9	transmembrane p24 trafficking protein 9	-0.878	5.727	Down
11285	B4GALT7	beta-1,4-galactosyltransferase 7	-0.465	1.332	Down
64777	RMND5B	required for meiotic nuclear division 5 homolog B	-0.75	4.838	Down
55651	NHP2	NHP2 ribonucleoprotein	-1.714	9.402	Down
3182	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	-1.868	31.399	Down
85007	PHYKPL	5-phosphohydroxy-L-lysine phospho-lyase	-0.49	3.694	Down
821	CANX	calnexin	-0.498	2.568	Down
8878	SQSTM1	sequestosome 1	-0.857	4.768	Down
3662	IRF4	interferon regulatory factor 4	-4.657	8.278	Down
55770	EXOC2	exocyst complex component 2	-0.538	3.9	Down
135458	HUS1B	HUS1 checkpoint clamp component B	-2.721	3.088	Down
2762	GMDS	GDP-mannose 4,6-dehydratase	-1.203	11.652	Down
4835	NQO2	N-ribosyldihydronicotinamide:quinone reductase 2	-0.763	2.889	Down
7280	TUBB2A	tubulin beta 2A class IIa	-2.365	9.024	Down
347733	TUBB2B	tubulin beta 2B class IIb	-2.113	7.741	Down
221749	PXDC1	PX domain containing 1	-1.345	1.752	Down
10799	RPP40	ribonuclease P/MRP subunit p40	-1.664	4.361	Down
57128	LYRM4	LYR motif containing 4	-1.091	1.73	Down

10667	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	-0.786	2.127	Down
285782	CAGE1	cancer antigen 1	-2.324	2.223	Down
83732	RIOK1	RIO kinase 1	-1.56	15.53	Down
654	BMP6	bone morphogenetic protein 6	-1.345	4.368	Down
1.01E+08	BLOC1S5-TXNDC5	BLOC1S5-TXNDC5 readthrough (NMD candidate)	-1.415	13.394	Down
81567	TXNDC5	thioredoxin domain containing 5	-1.565	17.339	Down
9521	EEF1E1	eukaryotic translation elongation factor 1 epsilon 1	-1.466	6.585	Down
55003	PAK1IP1	PAK1 interacting protein 1	-2.126	13.619	Down
4117	MAK	male germ cell associated kinase	-1.325	3.731	Down
221710	SMIM13	small integral membrane protein 13	-1.008	3.364	Down
4739	NEDD9	neural precursor cell expressed, developmentally down-regulated 9	-1.11	5.913	Down
1.12E+08	LOC112267953		-0.789	1.792	Down
3096	HIVEP1	HIVEP zinc finger 1	-1.153	2.846	Down
54438	GFOD1	glucose-fructose oxidoreductase domain containing 1	-1.045	2.691	Down
51406	NOL7	nucleolar protein 7	-1.124	11.537	Down
63933	MCUR1	mitochondrial calcium uniporter regulator 1	-0.646	6.198	Down
1.08E+08	LOC107986571	uncharacterized LOC107986571	-1.468	3.575	Down
84062	DTNBP1	dystrobrevin binding protein 1	-0.752	3.206	Down
9972	NUP153	nucleoporin 153	-0.665	2.757	Down
1.05E+08	NUP153-AS1	NUP153 antisense RNA 1	-1.176	9.62	Down
54901	CDKAL1	CDK5 regulatory subunit associated protein 1 like 1	-0.686	4.058	Down
57380	MRS2	magnesium transporter MRS2	-0.536	2.545	Down
51053	GMNN	geminin DNA replication inhibitor	-1.927	12.72	Down
8418	CMAHP	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene	-1.907	8.937	Down
10385	BTN2A2	butyrophilin subfamily 2 member A2	-1.291	4.645	Down
29777	ABT1	activator of basal transcription 1	-0.45	1.31	Down
3134	HLA-F	major histocompatibility complex, class I, F	-0.404	1.619	Down
30834	POLR1H	RNA polymerase I subunit H	-0.77	2.141	Down

6992	PPP1R11	protein phosphatase 1 regulatory inhibitor subunit 11	-0.745	3.115	Down
7726	TRIM26	tripartite motif containing 26	-0.403	1.332	Down
80742	PRR3	proline rich 3	-0.954	9.473	Down
23	ABCF1	ATP binding cassette subfamily F member 1	-1.001	3.503	Down
8449	DHX16	DEAH-box helicase 16	-0.525	2.34	Down
11270	NRM	nurim	-0.618	2.246	Down
203068	TUBB	tubulin beta class I	-1.968	49.403	Down
10211	FLOT1	flotillin 1	-1.417	10.232	Down
1.05E+08	IER3-AS1	IER3 antisense RNA 1	-3.032	8.346	Down
8870	IER3	immediate early response 3	-3.287	7.746	Down
2968	GTF2H4	general transcription factor IIH subunit 4	-1.335	16.333	Down
57176	VARS2	valyl-tRNA synthetase 2, mitochondrial	-0.556	1.394	Down
1.01E+08	ATP6V1G2-DDX39B	ATP6V1G2-DDX39B readthrough (NMD candidate)	-0.578	3.051	Down
7919	DDX39B	DExD-box helicase 39B	-0.577	3.052	Down
4049	LTA	lymphotoxin alpha	-4.713	36.785	Down
7124	TNF	tumor necrosis factor	-5.094	9.791	Down
7917	BAG6	BAG cochaperone 6	-0.777	9.01	Down
55937	APOM	apolipoprotein M	-0.643	2.55	Down
1460	CSNK2B	casein kinase 2 beta	-0.81	3.79	Down
1192	CLIC1	chloride intracellular channel 1	-1.487	14.325	Down
7407	VARS1	valyl-tRNA synthetase 1	-2.082	29.978	Down
57819	LSM2	LSM2 homolog, U6 small nuclear RNA and mRNA degradation associated	-1.439	6.667	Down
3303	HSPA1A	heat shock protein family A (Hsp70) member 1A	-0.741	2.979	Down
3304	HSPA1B	heat shock protein family A (Hsp70) member 1B	-0.884	3.428	Down
4758	NEU1	neuraminidase 1	-0.79	2.553	Down
7936	NELFE	negative elongation factor complex member E	-0.979	4.431	Down
6499	SKIC2	SKI2 subunit of superkiller complex	-0.5	3.224	Down
6891	TAP2	transporter 2, ATP binding cassette subfamily B member	-1.646	18.973	Down

5696	PSMB8	proteasome 20S subunit beta 8	-1.216	5.619	Down
1.01E+08	PSMB8-AS1	PSMB8 antisense RNA 1 (head to head)	-0.993	4.959	Down
6890	TAP1	transporter 1, ATP binding cassette subfamily B member	-1.892	13.321	Down
5698	PSMB9	proteasome 20S subunit beta 9	-0.725	3.118	Down
7922	SLC39A7	solute carrier family 39 member 7	-0.438	2.416	Down
6015	RING1	ring finger protein 1	-0.617	4.224	Down
9277	WDR46	WD repeat domain 46	-1.491	15.687	Down
10471	PFDN6	prefoldin subunit 6	-1.403	9.573	Down
6892	TAPBP	TAP binding protein	-0.806	4.013	Down
3833	KIFC1	kinesin family member C1	-2.332	4.801	Down
578	BAK1	BCL2 antagonist/killer 1	-1.161	5.643	Down
84300	UQCC2	ubiquinol-cytochrome c reductase complex assembly factor 2	-1.599	5.709	Down
3159	HMGA1	high mobility group AT-hook 1	-1.132	5.698	Down
6631	SNRPC	small nuclear ribonucleoprotein polypeptide C	-1.033	4.556	Down
7005	TEAD3	TEA domain transcription factor 3	-2.589	5.308	Down
6732	SRPK1	SRSF protein kinase 1	-1.003	15.142	Down
389384	BNIP5	BCL2 interacting protein 5	-3.877	2.639	Down
51513	ETV7	ETS variant transcription factor 7	-2.335	5.479	Down
222658	KCTD20	potassium channel tetramerization domain containing 20	-0.415	2.331	Down
6428	SRSF3	serine and arginine rich splicing factor 3	-1.416	14.491	Down
1.01E+08	PANDAR	promoter of CDKN1A antisense DNA damage activated RNA	-1.614	3.545	Down
1026	CDKN1A	cyclin dependent kinase inhibitor 1A	-1.501	2.709	Down
51645	PPIL1	peptidylprolyl isomerase like 1	-1.616	13.889	Down
221468	TMEM217	transmembrane protein 217	-1.351	5.089	Down
55633	TBC1D22B	TBC1 domain family member 22B	-0.47	3.002	Down
23070	CMTR1	cap methyltransferase 1	-0.51	1.776	Down
154467	CCDC167	coiled-coil domain containing 167	-1.6	7.894	Down
2739	GLO1	glyoxalase I	-0.509	1.315	Down

8645	KCNK5	potassium two pore domain channel subfamily K member 5	-3.732	25.243	Down
4337	MOCS1	molybdenum cofactor synthesis 1	-1.149	1.578	Down
79865	TREML2	triggering receptor expressed on myeloid cells like 2	-1.939	3.53	Down
116113	FOXP4	forkhead box P4	-1.691	5.115	Down
1E+08	TOMM6	translocase of outer mitochondrial membrane 6	-0.734	2.001	Down
25862	USP49	ubiquitin specific peptidase 49	-0.821	4.467	Down
9477	MED20	mediator complex subunit 20	-1.072	6.33	Down
705	BYSL	bystin like	-3.159	30.511	Down
55173	MRPS10	mitochondrial ribosomal protein S10	-0.541	1.648	Down
285855	RPL7L1	ribosomal protein L7 like 1	-0.707	2.592	Down
88745	RRP36	ribosomal RNA processing 36	-0.897	7.786	Down
51069	MRPL2	mitochondrial ribosomal protein L2	-0.415	1.4	Down
6722	SRF	serum response factor	-1.52	12.194	Down
10591	DNPH1	2'-deoxynucleoside 5'-phosphate N-hydrolase 1	-0.883	1.772	Down
84630	TTBK1	tau tubulin kinase 1	-3.752	3.554	Down
9533	POLR1C	RNA polymerase I and III subunit C	-1.532	11.881	Down
57510	XPO5	exportin 5	-1.322	13.11	Down
9587	MAD2L1BP	MAD2L1 binding protein	-0.482	1.639	Down
221421	RSPH9	radial spoke head component 9	-0.917	3.762	Down
55168	MRPS18A	mitochondrial ribosomal protein S18A	-0.948	4.382	Down
7422	VEGFA	vascular endothelial growth factor A	-2.009	4.643	Down
64928	MRPL14	mitochondrial ribosomal protein L14	-1.415	5.425	Down
55362	TMEM63B	transmembrane protein 63B	-1.099	2.829	Down
1.08E+08	LOC107986599	uncharacterized LOC107986599	-1.06	1.488	Down
2030	SLC29A1	solute carrier family 29 member 1 (Augustine blood group)	-3.827	34.592	Down
3326	HSP90AB1	heat shock protein 90 alpha family class B member 1	-2.323	34.449	Down
347734	SLC35B2	solute carrier family 35 member B2	-0.85	3.874	Down
1.01E+08	MIR4647	microRNA 4647	-1.054	1.608	Down

4794	NFKBIE	NFKB inhibitor epsilon	-1.547	6.155	Down
57505	AARS2	alanyl-tRNA synthetase 2, mitochondrial	-0.566	2.105	Down
988	CDC5L	cell division cycle 5 like	-0.447	3.311	Down
10231	RCAN2	regulator of calcineurin 2	-3.616	3.685	Down
55166	CENPQ	centromere protein Q	-0.864	1.477	Down
3605	IL17A	interleukin 17A	-6.115	4.467	Down
112744	IL17F	interleukin 17F	-5.896	1.885	Down
4172	MCM3	minichromosome maintenance complex component 3	-0.64	3.961	Down
2941	GSTA4	glutathione S-transferase alpha 4	-1.295	1.32	Down
9532	BAG2	BAG cochaperone 2	-0.77	3.001	Down
5558	PRIM2	DNA primase subunit 2	-0.612	2.327	Down
7803	PTP4A1	protein tyrosine phosphatase 4A1	-0.66	3.627	Down
115004	CGAS	cyclic GMP-AMP synthase	-2.034	5.113	Down
135228	CD109	CD109 molecule	-2.885	11.619	Down
1347	COX7A2	cytochrome c oxidase subunit 7A2	-0.737	1.864	Down
7272	TTK	TTK protein kinase	-2.544	7.244	Down
90025	UBE3D	ubiquitin protein ligase E3D	-0.937	3.222	Down
51167	CYB5R4	cytochrome b5 reductase 4	-0.535	5.659	Down
57231	SNX14	sorting nexin 14	-0.359	1.372	Down
10492	SYNCRIP	synaptotagmin binding cytoplasmic RNA interacting protein	-1.019	5.389	Down
135293	PM20D2	peptidase M20 domain containing 2	-0.542	3.633	Down
29078	NDUFAF4	NADH:ubiquinone oxidoreductase complex assembly factor 4	-1.158	4.081	Down
253714	MMS22L	MMS22 like, DNA repair protein	-0.502	1.434	Down
51805	COQ3	coenzyme Q3, methyltransferase	-1.266	9.397	Down
892	CCNC	cyclin C	-0.803	2.684	Down
10973	ASCC3	activating signal cointegrator 1 complex subunit 3	-0.97	6.923	Down
5550	PREP	prolyl endopeptidase	-0.451	2.927	Down
639	PRDM1	PR/SET domain 1	-2.498	11.696	Down

57673	BEND3	BEN domain containing 3	-2.038	12.648	Down
285755	PPIL6	peptidylprolyl isomerase like 6	-0.852	1.344	Down
6610	SMPD2	sphingomyelin phosphodiesterase 2	-0.976	5.5	Down
262	AMD1	adenosylmethionine decarboxylase 1	-1.466	15.381	Down
112495	GTF3C6	general transcription factor IIIC subunit 6	-1.349	14.097	Down
84154	RPF2	ribosome production factor 2 homolog	-1.909	7.816	Down
51175	TUBE1	tubulin epsilon 1	-0.94	1.67	Down
3066	HDAC2	histone deacetylase 2	-0.949	6.026	Down
728402	TPI1P3	triosephosphate isomerase 1 pseudogene 3	-2.153	3.653	Down
221302	ZUP1	zinc finger containing ubiquitin peptidase 1	-1.099	6.749	Down
116150	NUS1	NUS1 dehydrodolichyl diphosphate synthase subunit	-0.947	5.184	Down
4121	MAN1A1	mannosidase alpha class 1A member 1	-0.845	5.235	Down
51020	HDDC2	HD domain containing 2	-0.601	1.348	Down
387103	CENPW	centromere protein W	-1.997	5.998	Down
55862	ECHDC1	ethylmalonyl-CoA decarboxylase 1	-0.946	9.463	Down
594837	SNORD101	small nucleolar RNA, C/D box 101	-3.694	2.203	Down
594838	SNORD100	small nucleolar RNA, C/D box 100	-2.299	1.617	Down
6446	SGK1	serum/glucocorticoid regulated kinase 1	-3.991	29.942	Down
10767	HBS1L	HBS1 like translational GTPase	-0.675	3.959	Down
4602	MYB	MYB proto-oncogene, transcription factor	-1.863	4.827	Down
1.05E+08	LOC105378011	uncharacterized LOC105378011	-2.319	3.505	Down
113115	MTFR2	mitochondrial fission regulator 2	-2.08	3.57	Down
9774	BCLAF1	BCL2 associated transcription factor 1	-0.601	2.104	Down
7128	TNFAIP3	TNF alpha induced protein 3	-1.094	3.461	Down
1.08E+08	HIVEP2-DT	HIVEP2 divergent transcript	-1.329	4.532	Down
134637	ADAT2	adenosine deaminase tRNA specific 2	-1.248	3.183	Down
84946	LTV1	LTV1 ribosome biogenesis factor	-1.252	12.439	Down
8676	STX11	syntaxin 11	-2.639	7.344	Down

729176	KATNBL1P6	katanin regulatory subunit B1 like 1 pseudogene 6	-1.285	2.955	Down
1.05E+08	UST-AS2	UST antisense RNA 2	-4.488	10.353	Down
23118	TAB2	TGF-beta activated kinase 1 (MAP3K7) binding protein 2	-0.472	1.31	Down
340152	ZC3H12D	zinc finger CCCH-type containing 12D	-2.51	2.206	Down
348995	NUP43	nucleoporin 43	-0.581	3.689	Down
84918	LRP11	LDL receptor related protein 11	-1.152	2.616	Down
80328	ULBP2	UL16 binding protein 2	-3.485	8.773	Down
80329	ULBP1	UL16 binding protein 1	-5.131	5.754	Down
646024	RAET1K	retinoic acid early transcript 1K pseudogene	-1.879	2.325	Down
25902	MTHFD1L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like	-2.255	8.931	Down
54516	MTRF1L	mitochondrial translation release factor 1 like	-1.06	5.39	Down
26230	TIAM2	TIAM Rac1 associated GEF 2	-1.717	5.669	Down
51429	SNX9	sorting nexin 9	-1.135	3.38	Down
6993	DYNLT1	dynein light chain Tctex-type 1	-1.626	4.964	Down
7430	EZR	ezrin	-0.697	2.893	Down
1.01E+08	EZR-AS1	EZR antisense RNA 1	-0.78	1.853	Down
1.05E+08	TAGAP-AS1	TAGAP antisense RNA 1	-1.311	6.287	Down
117289	TAGAP	T cell activation RhoGTPase activating protein	-1.403	6.153	Down
6648	SOD2	superoxide dismutase 2	-0.686	2.256	Down
39	ACAT2	acetyl-CoA acetyltransferase 2	-1.045	5.265	Down
6950	TCP1	t-complex 1	-1.56	25.42	Down
29074	MRPL18	mitochondrial ribosomal protein L18	-0.667	1.816	Down
113402	SFT2D1	SFT2 domain containing 1	-0.684	2.091	Down
11116	CEP43	centrosomal protein 43	-1.262	6.844	Down
5689	PSMB1	proteasome 20S subunit beta 1	-1.198	7.508	Down
6908	TBP	TATA-box binding protein	-0.453	2.199	Down
5134	PDCD2	programmed cell death 2	-0.633	2.12	Down
5154	PDGFA	platelet derived growth factor subunit A	-2.73	2.856	Down

5575	PRKAR1B	protein kinase cAMP-dependent type I regulatory subunit beta	-0.502	1.721	Down
1.02E+08	PRKAR1B-AS1	PRKAR1B antisense RNA 1	-2.655	15.728	Down
54919	DNAAF5	dynein axonemal assembly factor 5	-1.121	11.125	Down
51608	GET4	guided entry of tail-anchored proteins factor 4	-0.518	1.316	Down
11033	ADAP1	ArfGAP with dual PH domains 1	-1.751	13.505	Down
84310	C7orf50	chromosome 7 open reading frame 50	-1.558	5.28	Down
7975	MAFK	MAF bZIP transcription factor K	-0.709	2.822	Down
202915	TMEM184A	transmembrane protein 184A	-0.617	2.179	Down
84262	PSMG3	proteasome assembly chaperone 3	-0.96	4.006	Down
4521	NUDT1	nudix hydrolase 1	-0.646	1.716	Down
29886	SNX8	sorting nexin 8	-0.995	3.031	Down
8662	EIF3B	eukaryotic translation initiation factor 3 subunit B	-1.057	8.578	Down
2768	GNA12	G protein subunit alpha 12	-0.386	1.661	Down
221935	SDK1	sidekick cell adhesion molecule 1	-2.098	3.705	Down
60	ACTB	actin beta	-1.416	6.54	Down
51622	CCZ1	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated	-0.8	3.875	Down
1.08E+08	LOC107986694		-0.708	3.198	Down
7965	AIMP2	aminoacyl tRNA synthetase complex interacting multifunctional protein 2	-1.853	20.995	Down
11014	KDELR2	KDEL endoplasmic reticulum protein retention receptor 2	-0.568	1.585	Down
221960	CCZ1B	CCZ1 homolog B, vacuolar protein trafficking and biogenesis associated	-0.826	20.017	Down
1.08E+08	LOC107986696		-0.707	3.307	Down
54468	MIOS	meiosis regulator for oocyte development	-0.934	4.233	Down
79150	MGC4859	uncharacterized LOC79150	-0.895	2.548	Down
4697	NDUFA4	NDUFA4 mitochondrial complex associated	-0.671	1.359	Down
28969	BZW2	basic leucine zipper and W2 domains 2	-1.105	3.059	Down
196	AHR	aryl hydrocarbon receptor	-1.213	3.336	Down
7291	TWIST1	twist family bHLH transcription factor 1	-3.796	5.799	Down
221830	POLR1F	RNA polymerase I subunit F	-1.075	7.958	Down

1.1E+08	SNHG26	small nucleolar RNA host gene 26	-1.03	1.913	Down
84668	HYCC1	hyccin PI4KA lipid kinase complex subunit 1	-0.843	2.545	Down
115416	MALSU1	mitochondrial assembly of ribosomal large subunit 1	-0.885	3.903	Down
256355	RPS2P32	ribosomal protein S2 pseudogene 32	-1.852	2.404	Down
29896	TRA2A	transformer 2 alpha homolog	-0.685	3.543	Down
54205	CYCS	cytochrome c, somatic	-1.95	24.41	Down
9603	NFE2L3	NFE2 like bZIP transcription factor 3	-2.509	23.79	Down
3181	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	-1.42	17.658	Down
29887	SNX10	sorting nexin 10	-2.21	11.138	Down
1.05E+08	SNX10-AS1	SNX10 antisense RNA 1	-2.416	9.8	Down
79017	GGCT	gamma-glutamylcyclotransferase	-1.159	5.246	Down
2617	GARS1	glycyl-tRNA synthetase 1	-1.932	9.854	Down
441212	RP9P	RP9 pseudogene	-0.722	1.687	Down
6100	RP9	RP9 pre-mRNA splicing factor	-0.664	4.542	Down
83930	STARD3NL	STARD3 N-terminal like	-0.942	3.548	Down
5683	PSMA2	proteasome 20S subunit alpha 2	-1.397	7.999	Down
64983	MRPL32	mitochondrial ribosomal protein L32	-0.711	2.127	Down
644	BLVRA	biliverdin reductase A	-0.717	2	Down
1.01E+08	URGCP-MRPS24	URGCP-MRPS24 readthrough	-0.57	1.626	Down
64951	MRPS24	mitochondrial ribosomal protein S24	-0.604	1.534	Down
28988	DBNL	drebrin like	-0.656	3.383	Down
165	AEBP1	AE binding protein 1	-1.107	2.603	Down
5425	POLD2	DNA polymerase delta 2, accessory subunit	-1.687	14.17	Down
2645	GCK	glucokinase	-2.268	4.237	Down
10652	YKT6	YKT6 v-SNARE homolog	-0.729	7.65	Down
54606	DDX56	DEAD-box helicase 56	-1.317	12.955	Down
4967	OGDH	oxoglutarate dehydrogenase	-0.415	2.134	Down
5478	PPIA	peptidylprolyl isomerase A	-0.975	3.231	Down

5814	PURB	purine rich element binding protein B	-0.756	3.228	Down
64005	MYO1G	myosin IG	-1.124	3.213	Down
285958	SNHG15	small nucleolar RNA host gene 15	-1.779	13.869	Down
9238	TBRG4	transforming growth factor beta regulator 4	-1.018	10.937	Down
63979	FIGNL1	fidgetin like 1	-0.642	3.164	Down
23480	SEC61G	SEC61 translocon subunit gamma	-1.119	4.127	Down
55915	LANCL2	LanC like glutathione S-transferase 2	-0.72	4.579	Down
51373	MRPS17	mitochondrial ribosomal protein S17	-1.004	4.968	Down
2631	NIPSNAP2	nipsnap homolog 2	-0.494	1.528	Down
5723	PSPH	phosphoserine phosphatase	-1.241	3.446	Down
908	CCT6A	chaperonin containing TCP1 subunit 6A	-1.618	20.535	Down
51142	CHCHD2	coiled-coil-helix-coiled-coil-helix domain containing 2	-1.202	3.336	Down
649395	YWHAEP1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon pseudogene 1	-1.82	7.343	Down
285905	INTS4P1	integrator complex subunit 4 pseudogene 1	-0.578	1.558	Down
435	ASL	argininosuccinate lyase	-0.961	2.122	Down
8460	TPST1	tyrosylprotein sulfotransferase 1	-1.561	2.806	Down
493754	RABGEF1P1	RABGEF1 pseudogene 1	-0.329	1.403	Down
51119	SBDS	SBDS ribosome maturation factor	-0.558	3.322	Down
8326	FZD9	frizzled class receptor 9	-1.605	1.324	Down
84277	DNAJC30	DnaJ heat shock protein family (Hsp40) member C30	-0.406	1.892	Down
114049	BUD23	BUD23 rRNA methyltransferase and ribosome maturation factor	-0.951	4.482	Down
7458	EIF4H	eukaryotic translation initiation factor 4H	-0.692	5.585	Down
7462	LAT2	linker for activation of T cells family member 2	-0.821	1.849	Down
5982	RFC2	replication factor C subunit 2	-1.221	5.952	Down
81554	RCC1L	RCC1 like	-0.497	2.255	Down
5447	POR	cytochrome p450 oxidoreductase	-0.396	1.576	Down
83862	TMEM120A	transmembrane protein 120A	-0.872	2.024	Down
4191	MDH2	malate dehydrogenase 2	-0.825	6.76	Down

3315	HSPB1	heat shock protein family B (small) member 1	-1.542	12.354	Down
7532	YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma	-1.391	13.819	Down
57157	PHTF2	putative homeodomain transcription factor 2	-0.428	1.31	Down
6717	SRI	sorcin	-0.68	5.039	Down
1.03E+08	SRI-AS1	SRI antisense RNA 1	-0.768	2.45	Down
1595	CYP51A1	cytochrome P450 family 51 subfamily A member 1	-1.912	15.861	Down
1021	CDK6	cyclin dependent kinase 6	-1.905	7.616	Down
1.02E+08	CDK6-AS1	CDK6 antisense RNA 1	-1.814	2.271	Down
10165	SLC25A13	solute carrier family 25 member 13	-0.708	2.08	Down
7979	SEM1	SEM1 26S proteasome subunit	-0.837	4.711	Down
440	ASNS	asparagine synthetase (glutamine-hydrolyzing)	-2.205	13.101	Down
1.08E+08	CZ1P-ASNS	CZ1P-ASNS readthrough	-2.157	12.957	Down
389538	CCZ1P-OR7E38P	CCZ1P-OR7E38P readthrough	-1.541	10.143	Down
168620	BHLHA15	basic helix-loop-helix family member a15	-3.711	2.822	Down
55971	BAIAP2L1	BAR/IMD domain containing adaptor protein 2 like 1	-2.105	4.502	Down
10552	ARPC1A	actin related protein 2/3 complex subunit 1A	-0.673	3.435	Down
10095	ARPC1B	actin related protein 2/3 complex subunit 1B	-0.961	4.636	Down
11333	PDAP1	PDGFA associated protein 1	-1.151	11.401	Down
8896	BUD31	BUD31 homolog	-1.068	4.362	Down
1.13E+08	MIR12119	microRNA 12119	-0.829	1.636	Down
1.01E+08	ATP5MF-PTCD1	ATP5MF-PTCD1 readthrough	-0.889	4.452	Down
26024	PTCD1	pentatricopeptide repeat domain 1	-0.842	6.558	Down
10898	CPSF4	cleavage and polyadenylation specific factor 4	-0.823	5.825	Down
9551	ATP5MF	ATP synthase membrane subunit f	-0.934	2.328	Down
10980	COPS6	COP9 signalosome subunit 6	-1.009	4.174	Down
4176	MCM7	minichromosome maintenance complex component 7	-1.367	10.688	Down
441272	SPDYE3	speedy/RINGO cell cycle regulator family member E3	-0.621	2.987	Down
5379	PMS2P1	PMS1 homolog 2, mismatch repair system component pseudogene 1	-0.823	4.963	Down

7036	TFR2	transferrin receptor 2	-0.641	1.37	Down
2783	GNB2	G protein subunit beta 2	-0.524	4.4	Down
10248	POP7	POP7 homolog, ribonuclease P/MRP subunit	-1.255	11.876	Down
7205	TRIP6	thyroid hormone receptor interactor 6	-1.476	9.275	Down
51593	SRRT	serrate, RNA effector molecule	-1.65	9.921	Down
1174	AP1S1	adaptor related protein complex 1 subunit sigma 1	-1.239	3.351	Down
51024	FIS1	fission, mitochondrial 1	-0.457	1.387	Down
1.02E+08	EMSLR	E2F1 mRNA stabilizing lncRNA	-2.761	3.392	Down
80228	ORAI2	ORAI calcium release-activated calcium modulator 2	-0.535	4.064	Down
222229	LRWD1	leucine rich repeats and WD repeat domain containing 1	-1.053	9.48	Down
27000	DNAJC2	DnaJ heat shock protein family (Hsp40) member C2	-1.441	6.746	Down
5701	PSMC2	proteasome 26S subunit, ATPase 2	-1.247	11.409	Down
54517	PUS7	pseudouridine synthase 7	-2.296	21.166	Down
10135	NAMPT	nicotinamide phosphoribosyltransferase	-2.851	25.433	Down
168455	CCDC71L	coiled-coil domain containing 71 like	-0.354	1.318	Down
55973	BCAP29	B cell receptor associated protein 29	-0.525	2.063	Down
1738	DLD	dihydrolipoamide dehydrogenase	-1.042	8.741	Down
83943	IMMP2L	inner mitochondrial membrane peptidase subunit 2	-0.831	1.67	Down
3475	IFRD1	interferon related developmental regulator 1	-0.696	3.82	Down
830	CAPZA2	capping actin protein of muscle Z-line subunit alpha 2	-0.494	1.762	Down
7982	ST7	suppression of tumorigenicity 7	-0.764	2.807	Down
10447	FAM3C	FAM3 metabolism regulating signaling molecule C	-0.765	2.473	Down
27044	SND1	staphylococcal nuclease and tudor domain containing 1	-0.883	5.382	Down
55131	RBM28	RNA binding motif protein 28	-1.023	3.524	Down
3614	IMPDH1	inosine monophosphate dehydrogenase 1	-1.012	3.936	Down
29923	HILPDA	hypoxia inducible lipid droplet associated	-1.374	5.476	Down
55798	METTL2B	methyltransferase 2B, methylcytidine	-1.259	8.639	Down
813	CALU	calumenin	-0.858	7.7	Down

3663	IRF5	interferon regulatory factor 5	-0.871	1.589	Down
23534	TNPO3	transportin 3	-0.368	2.421	Down
286016	TPI1P2	triosephosphate isomerase 1 pseudogene 2	-1.978	5.359	Down
57464	STRIP2	striatin interacting protein 2	-3.48	4.759	Down
1E+08	SMKR1	small lysine rich protein 1	-0.752	1.842	Down
51530	ZC3HC1	zinc finger C3HC-type containing 1	-0.706	2.816	Down
378805	LINC-PINT	long intergenic non-protein coding RNA, p53 induced transcript	-1.187	10.635	Down
54927	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3	-1.227	13.735	Down
84912	SLC35B4	solute carrier family 35 member B4	-0.688	2.422	Down
800	CALD1	caldesmon 1	-3.196	3.142	Down
23165	NUP205	nucleoporin 205	-0.673	2.203	Down
57670	KIAA1549	KIAA1549	-2.581	4.878	Down
92092	ZC3HAV1L	zinc finger CCCH-type containing, antiviral 1 like	-1.38	4.605	Down
1.08E+08	LOC107986852	uncharacterized LOC107986852	-1.763	1.472	Down
79989	TTC26	tetratricopeptide repeat domain 26	-1.658	8.931	Down
51631	LUC7L2	LUC7 like 2, pre-mRNA splicing factor	-0.481	2.306	Down
1.01E+08	FMC1-LUC7L2	FMC1-LUC7L2 readthrough	-0.423	1.92	Down
1E+08	LOC100129148	uncharacterized LOC100129148	-0.493	1.68	Down
84255	SLC37A3	solute carrier family 37 member 3	-2.016	10.367	Down
401409	RAB19	RAB19, member RAS oncogene family	-2.721	12.497	Down
1E+08	NDUFB2-AS1	NDUFB2 antisense RNA 1	-0.807	2.821	Down
4708	NDUFB2	NADH:ubiquinone oxidoreductase subunit B2	-0.889	3.061	Down
6742	SSBP1	single stranded DNA binding protein 1	-1.258	7.741	Down
285966	TCAF2	TRPM8 channel associated factor 2	-0.65	3.708	Down
653691	TCAF2P1	TRPM8 channel associated factor 2 pseudogene 1	-0.625	2.545	Down
154761	LOC154761	family with sequence similarity 115, member C pseudogene	-0.59	3.954	Down
8454	CUL1	cullin 1	-0.296	2.206	Down
2146	EZH2	enhancer of zeste 2 polycomb repressive complex 2 subunit	-2.704	14.454	Down

1.03E+08	GHET1	gastric carcinoma proliferation enhancing transcript 1	-1.697	1.588	Down
9601	PDIA4	protein disulfide isomerase family A member 4	-0.629	1.988	Down
65999	LRRC61	leucine rich repeat containing 61	-0.818	2.231	Down
113763	ZBED10P	zinc finger BED-type containing 10, pseudogene	-0.52	1.521	Down
11194	ABCB8	ATP binding cassette subfamily B member 8	-0.576	2.945	Down
6522	SLC4A2	solute carrier family 4 member 2	-0.909	3.592	Down
10922	FASTK	Fas activated serine/threonine kinase	-0.515	2.558	Down
1.14E+08	ABCF2-H2BK1	ABCF2-H2BK1 readthrough	-1.557	14.603	Down
10061	ABCF2	ATP binding cassette subfamily F member 2	-1.647	16.163	Down
54480	CHPF2	chondroitin polymerizing factor 2	-0.554	3.165	Down
6009	RHEB	Ras homolog, mTORC1 binding	-0.626	1.816	Down
7516	XRCC2	X-ray repair cross complementing 2	-1.702	1.969	Down
3638	INSIG1	insulin induced gene 1	-0.776	2.817	Down
64434	NOM1	nucleolar protein with MIF4G domain 1	-0.947	2.378	Down
9690	UBE3C	ubiquitin protein ligase E3C	-0.807	6.244	Down
10049	DNAJB6	DnaJ heat shock protein family (Hsp40) member B6	-0.803	8.654	Down
1.05E+08	LOC105375615	uncharacterized LOC105375615	-0.984	1.57	Down
9639	ARHGEF10	Rho guanine nucleotide exchange factor 10	-1.462	2.8	Down
55326	AGPAT5	1-acylglycerol-3-phosphate O-acyltransferase 5	-0.46	1.874	Down
90459	ERI1	exoribonuclease 1	-0.553	2.731	Down
54984	PINX1	PIN2 (TERF1) interacting telomerase inhibitor 1	-1.173	6.397	Down
83648	FAM167A	family with sequence similarity 167 member A	-2.188	4.938	Down
2222	FDFT1	farnesyl-diphosphate farnesyltransferase 1	-0.877	11.691	Down
91694	LONRF1	LON peptidase N-terminal domain and ring finger 1	-1.381	6.321	Down
10395	DLC1	DLC1 Rho GTPase activating protein	-2.967	4.533	Down
63898	SH2D4A	SH2 domain containing 4A	-1.679	3.779	Down
526	ATP6V1B2	ATPase H+ transporting V1 subunit B2	-0.655	4.097	Down
2039	DMTN	dematin actin binding protein	-0.679	2.179	Down

80346	REEP4	receptor accessory protein 4	-0.465	1.921	Down
661	POLR3D	RNA polymerase III subunit D	-1.107	10.054	Down
23516	SLC39A14	solute carrier family 39 member 14	-2.28	27.896	Down
1.08E+08	LOC107986924	uncharacterized LOC107986924	-6.427	24.476	Down
1960	EGR3	early growth response 3	-7.488	43.969	Down
4824	NKX3-1	NK3 homeobox 1	-1.299	3.987	Down
54793	KCTD9	potassium channel tetramerization domain containing 9	-0.45	1.495	Down
157313	CDCA2	cell division cycle associated 2	-1.861	2.152	Down
5520	PPP2R2A	protein phosphatase 2 regulatory subunit Balpha	-0.525	2.451	Down
55872	PBK	PDZ binding kinase	-4.17	2.74	Down
2137	EXTL3	exostosin like glycosyltransferase 3	-0.411	1.822	Down
55756	INTS9	integrator complex subunit 9	-0.763	3.909	Down
1846	DUSP4	dual specificity phosphatase 4	-2.69	12.354	Down
10671	DCTN6	dynactin subunit 6	-0.549	2.073	Down
2961	GTF2E2	general transcription factor IIE subunit 2	-0.724	3.464	Down
2936	GSR	glutathione-disulfide reductase	-1.02	17.478	Down
7993	UBXN8	UBX domain protein 8	-1.44	3.771	Down
84549	MAK16	MAK16 homolog	-1.481	9.321	Down
80185	TTI2	TELO2 interacting protein 2	-1.005	5.225	Down
80223	RAB11FIP1	RAB11 family interacting protein 1	-1.954	6.725	Down
1978	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	-1.545	6.456	Down
27257	LSM1	LSM1 homolog, mRNA degradation associated	-0.693	2.944	Down
6867	TACC1	transforming acidic coiled-coil containing protein 1	-0.683	4.105	Down
84296	GINS4	GINS complex subunit 4	-0.999	3.683	Down
137964	GPAT4	glycerol-3-phosphate acyltransferase 4	-0.446	2.569	Down
5327	PLAT	plasminogen activator, tissue type	-2.829	6.411	Down
5423	POLB	DNA polymerase beta	-0.915	2.755	Down
7419	VDAC3	voltage dependent anion channel 3	-0.9	4.024	Down

8973	CHRNA6	cholinergic receptor nicotinic alpha 6 subunit	-3.329	7.995	Down
23514	SPIDR	scaffold protein involved in DNA repair	-0.483	1.344	Down
5591	PRKDC	protein kinase, DNA-activated, catalytic subunit	-0.602	1.781	Down
4173	MCM4	minichromosome maintenance complex component 4	-2.321	13.24	Down
10434	LYPLA1	lysophospholipase 1	-1.199	6.048	Down
29088	MRPL15	mitochondrial ribosomal protein L15	-1.234	7.197	Down
96764	TGS1	trimethylguanosine synthase 1	-0.776	4.276	Down
54928	BPNT2	3'(2'), 5'-bisphosphate nucleotidase 2	-0.947	8.276	Down
9650	MTFR1	mitochondrial fission regulator 1	-0.636	1.38	Down
23212	RRS1	ribosome biogenesis regulator 1 homolog	-1.726	16.473	Down
10987	COPS5	COP9 signalosome subunit 5	-0.749	2.182	Down
10499	NCOA2	nuclear receptor coactivator 2	-0.77	1.535	Down
51110	LACTB2	lactamase beta 2	-0.7	1.563	Down
9242	MSC	musculin	-1.172	1.568	Down
157506	RDH10	retinol dehydrogenase 10	-0.818	1.479	Down
55284	UBE2W	ubiquitin conjugating enzyme E2 W	-0.559	1.935	Down
6921	ELOC	elongin C	-1.326	11.465	Down
54968	TMEM70	transmembrane protein 70	-1.147	10.726	Down
54332	GDAP1	ganglioside induced differentiation associated protein 1	-1.017	4.999	Down
28957	MRPS28	mitochondrial ribosomal protein S28	-1.346	6.223	Down
1.05E+08	LOC105375924	uncharacterized LOC105375924	-2.545	1.549	Down
2171	FABP5	fatty acid binding protein 5	-2.664	21.275	Down
3612	IMPA1	inositol monophosphatase 1	-0.738	3.457	Down
1.02E+08	RIPK2-DT	RIPK2 divergent transcript	-1.351	1.924	Down
8767	RIPK2	receptor interacting serine/threonine kinase 2	-1.284	3.558	Down
734	OSGIN2	oxidative stress induced growth inhibitor family member 2	-0.551	2.968	Down
4683	NBN	nibrin	-0.82	4.086	Down
169200	TMEM64	transmembrane protein 64	-0.981	5.871	Down

51633	OTUD6B	OTU deubiquitinase 6B	-1.379	7.305	Down
2669	GEM	GTP binding protein overexpressed in skeletal muscle	-2.684	3.204	Down
51001	MTERF3	mitochondrial transcription termination factor 3	-0.83	5.004	Down
55353	LAPTM4B	lysosomal protein transmembrane 4 beta	-0.871	1.896	Down
10940	POP1	POP1 homolog, ribonuclease P/MRP subunit	-1.478	7.067	Down
6788	STK3	serine/threonine kinase 3	-1.511	12.208	Down
5440	POLR2K	RNA polymerase II, I and III subunit K	-0.809	2.323	Down
6674	SPAG1	sperm associated antigen 1	-2.755	22.464	Down
25897	RNF19A	ring finger protein 19A, RBR E3 ubiquitin protein ligase	-1.507	14.752	Down
51123	ZNF706	zinc finger protein 706	-0.495	1.9	Down
7071	KLF10	KLF transcription factor 10	-0.799	3.267	Down
81034	SLC25A32	solute carrier family 25 member 32	-1.185	13.399	Down
25879	DCAF13	DDB1 and CUL4 associated factor 13	-1.367	7.609	Down
29967	LRP12	LDL receptor related protein 12	-1.053	3.822	Down
84955	NUDCD1	NudC domain containing 1	-1.812	16.357	Down
5885	RAD21	RAD21 cohesin complex component	-0.212	1.368	Down
90390	MED30	mediator complex subunit 30	-0.691	2.231	Down
79075	DSCC1	DNA replication and sister chromatid cohesion 1	-2.541	6.64	Down
28998	MRPL13	mitochondrial ribosomal protein L13	-1.544	9.317	Down
27085	MTBP	MDM2 binding protein	-0.76	2.627	Down
3037	HAS2	hyaluronan synthase 2	-4.632	2.49	Down
84933	C8orf76	chromosome 8 open reading frame 76	-0.475	1.344	Down
1.01E+08	ZHX1-C8orf76	ZHX1-C8orf76 readthrough	-0.462	1.502	Down
11244	ZHX1	zinc fingers and homeoboxes 1	-0.369	2.05	Down
55093	NTAQ1	N-terminal glutamine amidase 1	-1.042	4.964	Down
157769	FAM91A1	family with sequence similarity 91 member A1	-0.958	11.906	Down
6713	SQLE	squalene epoxidase	-1.535	13.679	Down
4609	MYC	MYC proto-oncogene, bHLH transcription factor	-1.442	8.447	Down

51571	CYRIB	CYFIP related Rac1 interactor B	-0.641	3.38	Down
51105	PHF20L1	PHD finger protein 20 like 1	-1.186	4.836	Down
6503	SLA	Src like adaptor	-0.818	2.89	Down
54108	CHRAC1	chromatin accessibility complex subunit 1	-0.618	2.522	Down
27161	AGO2	argonaute RISC catalytic component 2	-0.525	1.849	Down
11156	PTP4A3	protein tyrosine phosphatase 4A3	-0.87	3.465	Down
66004	LYNX1	Ly6/neurotoxin 1	-2.172	2.793	Down
4061	LY6E	lymphocyte antigen 6 family member E	-0.848	3.204	Down
116447	TOP1MT	DNA topoisomerase I mitochondrial	-0.481	2.111	Down
79792	GSDMD	gasdermin D	-0.908	3	Down
65263	PYCR3	pyrroline-5-carboxylate reductase 3	-1.696	9.704	Down
7264	GFUS	GDP-L-fucose synthase	-1.839	14.658	Down
286077	FAM83H	family with sequence similarity 83 member H	-1.14	3.255	Down
23513	SCRIB	scribble planar cell polarity protein	-1.095	3.618	Down
22827	PUF60	poly(U) binding splicing factor 60	-1.137	10.347	Down
1.08E+08	LOC107986985	uncharacterized LOC107986985	-1.205	3.242	Down
26873	OPLAH	5-oxoprolinase, ATP-hydrolysing	-2.75	6.072	Down
54512	EXOSC4	exosome component 4	-2.285	14.702	Down
8733	GPAA1	glycosylphosphatidylinositol anchor attachment 1	-0.823	4.277	Down
1537	CYC1	cytochrome c1	-1.688	10.148	Down
51236	HGH1	HGH1 homolog	-0.767	4.142	Down
23246	BOP1	BOP1 ribosomal biogenesis factor	-2.568	28.155	Down
642658	SCX	scleraxis bHLH transcription factor	-1.755	5.969	Down
340393	TMEM249	transmembrane protein 249	-1.685	2.8	Down
26233	FBXL6	F-box and leucine rich repeat protein 6	-1.612	7.577	Down
79581	SLC52A2	solute carrier family 52 member 2	-1.002	7.186	Down
29894	CPSF1	cleavage and polyadenylation specific factor 1	-0.598	1.981	Down
55630	SLC39A4	solute carrier family 39 member 4	-1.176	3.543	Down

4796	TONSL	tonsoku like, DNA repair protein	-1.902	6.939	Down
1E+08	TONSL-AS1	TONSL antisense RNA 1	-1.764	2.395	Down
113655	MFSD3	major facilitator superfamily domain containing 3	-0.714	1.481	Down
9401	RECQL4	RecQ like helicase 4	-1.287	2.692	Down
414919	C8orf82	chromosome 8 open reading frame 82	-0.628	1.998	Down
80728	ARHGAP39	Rho GTPase activating protein 39	-1.444	1.953	Down
28991	COMMD5	COMM domain containing 5	-0.724	2.416	Down
65265	C8orf33	chromosome 8 open reading frame 33	-0.996	9.249	Down
55871	ZNG1A	Zn regulated GTPase metalloprotein activator 1A	-1.386	10.725	Down
7436	VLDLR	very low density lipoprotein receptor	-1.428	1.789	Down
9933	PUM3	pumilio RNA binding family member 3	-1.918	31.065	Down
10171	RCL1	RNA terminal phosphate cyclase like 1	-1.234	4.155	Down
3717	JAK2	Janus kinase 2	-0.734	1.877	Down
55848	PLGRKT	plasminogen receptor with a C-terminal lysine	-0.781	1.456	Down
29126	CD274	CD274 molecule	-2.333	6.549	Down
2731	GLDC	glycine decarboxylase	-4.618	7.883	Down
340481	ZDHHC21	zinc finger DHHC-type palmitoyltransferase 21	-0.929	2.096	Down
54801	HAUS6	HAUS augmin like complex subunit 6	-0.589	4.016	Down
79886	CAAP1	caspase activity and apoptosis inhibitor 1	-0.639	2.904	Down
9373	PLAA	phospholipase A2 activating protein	-0.954	8.57	Down
48	ACO1	aconitase 1	-0.45	1.417	Down
4712	NDUFB6	NADH:ubiquinone oxidoreductase subunit B6	-0.706	1.567	Down
54840	APTX	aprataxin	-0.65	2.305	Down
3301	DNAJA1	DnaJ heat shock protein family (Hsp40) member A1	-1.816	22.729	Down
55234	SMU1	SMU1 DNA replication regulator and spliceosomal factor	-0.414	1.435	Down
573	BAG1	BAG cochaperone 1	-0.649	3.741	Down
65083	NOL6	nucleolar protein 6	-1.277	10.476	Down
55833	UBAP2	ubiquitin associated protein 2	-0.786	2.439	Down

203259	FAM219A	family with sequence similarity 219 member A	-1.133	6.348	Down
10280	SIGMAR1	sigma non-opioid intracellular receptor 1	-0.432	4.514	Down
7415	VCP	valosin containing protein	-1.478	35.645	Down
2189	FANCG	FA complementation group G	-0.688	1.719	Down
30968	STOML2	stomatin like 2	-1.555	9.312	Down
10497	UNC13B	unc-13 homolog B	-0.816	2.21	Down
9853	RUSC2	RUN and SH3 domain containing 2	-1.106	1.778	Down
7016	TESK1	testis associated actin remodelling kinase 1	-1.016	4.365	Down
971	CD72	CD72 molecule	-1.262	2.778	Down
10488	CREB3	cAMP responsive element binding protein 3	-0.497	1.382	Down
10020	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	-0.56	6.202	Down
9833	MELK	maternal embryonic leucine zipper kinase	-2.321	2.934	Down
401505	TOMM5	translocase of outer mitochondrial membrane 5	-0.997	2.67	Down
51010	EXOSC3	exosome component 3	-1.009	10.317	Down
219	ALDH1B1	aldehyde dehydrogenase 1 family member B1	-1.217	12.553	Down
389741	GLIDR	glioblastoma down-regulated RNA	-1.166	2.555	Down
644019	ZNG1F	Zn regulated GTPase metalloprotein activator 1F	-1.307	6.871	Down
220869	ZNG1E	Zn regulated GTPase metalloprotein activator 1E	-1.102	4.106	Down
445571	ZNG1C	Zn regulated GTPase metalloprotein activator 1C	-1.314	9.885	Down
23137	SMC5	structural maintenance of chromosomes 5	-0.387	2.072	Down
687	KLF9	KLF transcription factor 9	-0.574	2.435	Down
23670	CEMIP2	cell migration inducing hyaluronidase 2	-0.744	1.947	Down
26578	OSTF1	osteoclast stimulating factor 1	-0.444	1.413	Down
55312	RFK	riboflavin kinase	-0.461	1.775	Down
2650	GCNT1	glucosaminyl (N-acetyl) transferase 1	-1.01	5.065	Down
29968	PSAT1	phosphoserine aminotransferase 1	-3.512	11.116	Down
29979	UBQLN1	ubiquilin 1	-0.402	4.55	Down
84267	C9orf64	chromosome 9 open reading frame 64	-0.693	4.068	Down

3190	HNRNPK	heterogeneous nuclear ribonucleoprotein K	-0.521	3.65	Down
1164	CKS2	CDC28 protein kinase regulatory subunit 2	-2.524	36.54	Down
10912	GADD45G	growth arrest and DNA damage inducible gamma	-0.986	1.378	Down
1E+08	LINC03062	long intergenic non-protein coding RNA 3062	-3.892	10.855	Down
1.05E+08	LOC105376140	uncharacterized LOC105376140	-3.63	2.745	Down
1.01E+08	LINC02937	long intergenic non-protein coding RNA 2937	-3.214	3.929	Down
549	AUH	AU RNA binding methylglutaconyl-CoA hydratase	-1.01	3.66	Down
4783	NFIL3	nuclear factor, interleukin 3 regulated	-2.87	14.756	Down
1.12E+08	LOC112268048	uncharacterized LOC112268048	-1.726	7.087	Down
3376	IARS1	isoleucyl-tRNA synthetase 1	-1.877	16.641	Down
401541	CENPP	centromere protein P	-0.91	5.996	Down
64768	IPPK	inositol-pentakisphosphate 2-kinase	-1.045	8.758	Down
4814	NINJ1	ninjurin 1	-1.026	4.66	Down
65268	WNK2	WNK lysine deficient protein kinase 2	-4.143	5.785	Down
23196	FAM120A	family with sequence similarity 120A	-0.559	2.623	Down
138639	PTPDC1	protein tyrosine phosphatase domain containing 1	-0.721	2.555	Down
2176	FANCC	FA complementation group C	-1.101	5.088	Down
1E+08	LINC00092	long intergenic non-protein coding RNA 92	-1.914	1.708	Down
195828	ZNF367	zinc finger protein 367	-0.567	1.877	Down
195827	PRXL2C	peroxiredoxin like 2C	-0.474	2.43	Down
4686	NCBP1	nuclear cap binding protein subunit 1	-0.771	5.366	Down
54187	NANS	N-acetylneuraminate synthase	-1.089	7.54	Down
10952	SEC61B	SEC61 translocon subunit beta	-0.902	2.335	Down
23071	ERP44	endoplasmic reticulum protein 44	-0.451	1.725	Down
10592	SMC2	structural maintenance of chromosomes 2	-0.743	2.326	Down
19	ABCA1	ATP binding cassette subfamily A member 1	-1.655	1.417	Down
2218	FKTN	fukutin	-0.635	2.205	Down
1.12E+08	LOC112268052		-0.83	2.517	Down

5887	RAD23B	RAD23 homolog B, nucleotide excision repair protein	-0.857	11.125	Down
8727	CTNNAL1	catenin alpha like 1	-1.118	5.553	Down
7295	TXN	thioredoxin	-1.838	2.658	Down
79987	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	-3.666	2.082	Down
23392	ECPAS	Ecm29 proteasome adaptor and scaffold	-0.799	3.503	Down
552891	DNAJC25-GNG10	DNAJC25-GNG10 readthrough	-1.129	5.374	Down
548645	DNAJC25	DnaJ heat shock protein family (Hsp40) member C25	-0.904	2.794	Down
2790	GNG10	G protein subunit gamma 10	-1.133	4.972	Down
1318	SLC31A2	solute carrier family 31 member 2	-0.717	1.871	Down
1317	SLC31A1	solute carrier family 31 member 1	-1.173	10.366	Down
9128	PRPF4	pre-mRNA processing factor 4	-0.751	4.667	Down
5998	RGS3	regulator of G protein signaling 3	-0.867	2.989	Down
85301	COL27A1	collagen type XXVII alpha 1 chain	-3.307	7.602	Down
5711	PSMD5	proteasome 26S subunit, non-ATPase 5	-0.314	1.858	Down
7185	TRAF1	TNF receptor associated factor 1	-1.105	1.653	Down
92399	MRRF	mitochondrial ribosome recycling factor	-1.223	23.162	Down
55342	STRBP	spermatid perinuclear RNA binding protein	-0.452	2.346	Down
5695	PSMB7	proteasome 20S subunit beta 7	-1.143	3.994	Down
2649	NR6A1	nuclear receptor subfamily 6 group A member 1	-2.716	4.419	Down
81873	ARPC5L	actin related protein 2/3 complex subunit 5 like	-1.6	20.536	Down
3309	HSPA5	heat shock protein family A (Hsp70) member 5	-1.409	13.713	Down
23099	ZBTB43	zinc finger and BTB domain containing 43	-0.586	2.305	Down
29988	SLC2A8	solute carrier family 2 member 8	-1.209	2.587	Down
138428	PTRH1	peptidyl-tRNA hydrolase 1 homolog	-1.717	13.043	Down
286207	CFAP157	cilia and flagella associated protein 157	-2	17.455	Down
2356	FPGS	folylpolyglutamate synthase	-1.562	31.85	Down
8818	DPM2	dolichyl-phosphate mannosyltransferase subunit 2, regulatory	-1.46	16.196	Down
80142	PTGES2	prostaglandin E synthase 2	-1.091	10.729	Down

26995	TRUB2	TruB pseudouridine synthase family member 2	-1.225	8.366	Down
1.05E+08	LOC105376286	uncharacterized LOC105376286	-1.22	4.509	Down
51117	COQ4	coenzyme Q4	-0.638	3.097	Down
10999	SLC27A4	solute carrier family 27 member 4	-1.422	17.574	Down
81605	URM1	ubiquitin related modifier 1	-0.524	1.73	Down
4957	ODF2	outer dense fiber of sperm tails 2	-0.669	2.166	Down
89891	DYNC2I2	dynein 2 intermediate chain 2	-0.821	1.665	Down
6418	SET	SET nuclear proto-oncogene	-0.718	6.413	Down
29941	PKN3	protein kinase N3	-1.016	3.855	Down
2021	ENDOG	endonuclease G	-0.562	1.774	Down
51490	SPOUT1	SPOUT domain containing methyltransferase 1	-0.733	4.571	Down
23511	NUP188	nucleoporin 188	-1.46	13.79	Down
1.02E+08	LOC101929314	uncharacterized LOC101929314	-1.357	9.202	Down
57171	DOLPP1	dolichyldiphosphatase 1	-0.859	7.295	Down
23413	NCS1	neuronal calcium sensor 1	-4.327	14.713	Down
23404	EXOSC2	exosome component 2	-0.829	10.284	Down
83543	AIF1L	allograft inflammatory factor 1 like	-3.387	2.197	Down
9442	MED27	mediator complex subunit 27	-1.378	16.725	Down
64794	DDX31	DEAD-box helicase 31	-0.619	4.467	Down
9328	GTF3C5	general transcription factor IIIC subunit 5	-0.391	3.313	Down
26301	GBGT1	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1 (FORS blood group)	-1.475	3.112	Down
6835	SURF2	surfeit 2	-0.951	4.516	Down
6836	SURF4	surfeit 4	-1.055	10.091	Down
11091	WDR5	WD repeat domain 5	-0.599	4.798	Down
6256	RXRA	retinoid X receptor alpha	-0.771	4.623	Down
51116	MRPS2	mitochondrial ribosomal protein S2	-0.77	8.024	Down
1.02E+08	LOC101928525	uncharacterized LOC101928525	-0.75	5.039	Down
169714	QSOX2	quiescin sulfhydryl oxidase 2	-0.618	1.972	Down

26086	GPSM1	G protein signaling modulator 1	-1.041	4.996	Down
728489	DNLZ	DNL-type zinc finger	-1.058	1.489	Down
6621	SNAPC4	small nuclear RNA activating complex polypeptide 4	-1.065	1.577	Down
10807	ENTR1	endosome associated trafficking regulator 1	-0.818	4.475	Down
23203	PMPCA	peptidase, mitochondrial processing subunit alpha	-0.972	8.024	Down
56623	INPP5E	inositol polyphosphate-5-phosphatase E	-0.584	1.303	Down
4851	NOTCH1	notch receptor 1	-1.024	2.235	Down
10555	AGPAT2	1-acylglycerol-3-phosphate O-acyltransferase 2	-0.877	4.371	Down
414332	LCN10	lipocalin 10	-1.61	2.06	Down
85014	TMEM141	transmembrane protein 141	-0.849	2.681	Down
29085	PHPT1	phosphohistidine phosphatase 1	-1.841	6.951	Down
8721	EDF1	endothelial differentiation related factor 1	-0.584	1.888	Down
7186	TRAF2	TNF receptor associated factor 2	-1.076	9.001	Down
286257	PAXX	PAXX non-homologous end joining factor	-0.662	3.117	Down
401563	LINC02908	long intergenic non-protein coding RNA 2908	-0.737	1.558	Down
2529	FUT7	fucosyltransferase 7	-0.755	1.379	Down
954	ENTPD2	ectonucleoside triphosphate diphosphohydrolase 2	-3.563	1.42	Down
89958	SAPCD2	suppressor APC domain containing 2	-3.39	12.913	Down
29952	DPP7	dipeptidyl peptidase 7	-0.469	1.592	Down
8636	SSNA1	SS nuclear autoantigen 1	-0.906	3.517	Down
727800	RNF208	ring finger protein 208	-1.655	3.727	Down
10383	TUBB4B	tubulin beta 4B class IVb	-2.256	21.168	Down
401565	FAM166A	family with sequence similarity 166 member A	-2.288	15.27	Down
441478	NRARP	NOTCH regulated ankyrin repeat protein	-2.643	6.408	Down
26012	NSMF	NMDA receptor synaptonuclear signaling and neuronal migration factor	-0.915	2.951	Down
64975	MRPL41	mitochondrial ribosomal protein L41	-0.674	1.657	Down
92715	DPH7	diphthamide biosynthesis 7	-0.523	1.365	Down
116225	ZMYND19	zinc finger MYND-type containing 19	-0.715	4.317	Down

23560	GTPBP4	GTP binding protein 4	-1.651	21.274	Down
55853	IDI2-AS1	IDI2 antisense RNA 1	-1.72	8.096	Down
3422	IDI1	isopentenyl-diphosphate delta isomerase 1	-1.446	18.972	Down
5214	PFKP	phosphofructokinase, platelet	-1.684	3.988	Down
10531	PITRM1	pitrilysin metallopeptidase 1	-1.745	8.176	Down
1.01E+08	PITRM1-AS1	PITRM1 antisense RNA 1	-1.605	6.555	Down
1.05E+08	LOC105376361	uncharacterized LOC105376361	-2.599	1.321	Down
1.05E+08	LOC105376367	uncharacterized LOC105376367	-0.87	1.437	Down
54906	TASOR2	transcription activation suppressor family member 2	-0.387	3.316	Down
2665	GDI2	GDP dissociation inhibitor 2	-0.427	1.316	Down
3601	IL15RA	interleukin 15 receptor subunit alpha	-2.081	9.66	Down
1.08E+08	LOC107984200	uncharacterized LOC107984200	-2.076	5.617	Down
3559	IL2RA	interleukin 2 receptor subunit alpha	-3.506	4.528	Down
1.08E+08	LOC107984201	uncharacterized LOC107984201	-4.32	26.774	Down
84991	RBM17	RNA binding motif protein 17	-0.976	15.574	Down
57713	SFMBT2	Scm like with four mbt domains 2	-0.835	1.684	Down
509	ATP5F1C	ATP synthase F1 subunit gamma	-1.179	6.555	Down
1.05E+08	LOC105376392	uncharacterized LOC105376392	-1.195	3.336	Down
79746	ECHDC3	enoyl-CoA hydratase domain containing 3	-1.759	1.729	Down
55176	SEC61A2	SEC61 translocon subunit alpha 2	-0.704	3.892	Down
11164	NUDT5	nudix hydrolase 5	-0.531	1.816	Down
8872	CDC123	cell division cycle 123	-0.937	5.36	Down
55388	MCM10	minichromosome maintenance 10 replication initiation factor	-5.383	10.186	Down
5264	PHYH	phytanoyl-CoA 2-hydroxylase	-0.72	1.664	Down
22929	SEPHS1	selenophosphate synthetase 1	-0.439	1.911	Down
8559	PRPF18	pre-mRNA processing factor 18	-0.33	1.627	Down
51182	HSPA14	heat shock protein family A (Hsp70) member 14	-0.722	7.277	Down
79723	SUV39H2	SUV39H2 histone lysine methyltransferase	-1.524	12.278	Down

10557	RPP38	ribonuclease P/MRP subunit p38	-0.398	1.46	Down
221079	ARL5B	ADP ribosylation factor like GTPase 5B	-1.224	3.837	Down
23590	PDSS1	decaprenyl diphosphate synthase subunit 1	-1.13	7.15	Down
283078	MKX	mohawk homeobox	-7.329	5.779	Down
55149	MTPAP	mitochondrial poly(A) polymerase	-0.72	5.9	Down
1326	MAP3K8	mitogen-activated protein kinase kinase kinase 8	-4.206	16.282	Down
3799	KIF5B	kinesin family member 5B	-0.649	2.393	Down
8453	CUL2	cullin 2	-0.467	2.829	Down
1390	CREM	cAMP responsive element modulator	-1.958	9.392	Down
9790	BMS1	BMS1 ribosome biogenesis factor	-1.015	6.882	Down
3185	HNRNPF	heterogeneous nuclear ribonucleoprotein F	-0.91	7.787	Down
10151	HNRNPA3P1	heterogeneous nuclear ribonucleoprotein A3 pseudogene 1	-1.413	6.191	Down
1E+08	TIMM23	translocase of inner mitochondrial membrane 23	-1.802	21.79	Down
728643	HNRNPA1P33	heterogeneous nuclear ribonucleoprotein A1 pseudogene 33	-1.001	1.978	Down
439965	SHLD2P3	shieldin complex subunit 2 pseudogene 3	-0.524	1.741	Down
170371	TMEM273	transmembrane protein 273	-2.245	3.406	Down
1.01E+08	TIMM23B	translocase of inner mitochondrial membrane 23 homolog B	-1.606	14.945	Down
1.13E+08	TIMM23B-AGAP6	TIMM23B-AGAP6 readthrough (NMD candidate)	-0.935	1.9	Down
56624	ASAH2	N-acylsphingosine amidohydrolase 2	-0.567	1.578	Down
23283	CSTF2T	cleavage stimulation factor subunit 2 tau variant	-0.585	2.525	Down
11130	ZWINT	ZW10 interacting kinetochore protein	-2.109	8.477	Down
55847	CISD1	CDGSH iron sulfur domain 1	-1.237	3.476	Down
7019	TFAM	transcription factor A, mitochondrial	-0.565	2.526	Down
220963	SLC16A9	solute carrier family 16 member 9	-4.617	5.179	Down
8030	CCDC6	coiled-coil domain containing 6	-0.731	3.603	Down
983	CDK1	cyclin dependent kinase 1	-1.014	2.09	Down
84159	ARID5B	AT-rich interaction domain 5B	-1.36	3.508	Down
84890	ADO	2-aminoethanethiol dioxygenase	-1.287	4.929	Down

1959	EGR2	early growth response 2	-4.073	11.98	Down
29982	NRBF2	nuclear receptor binding factor 2	-0.594	2.724	Down
1763	DNA2	DNA replication helicase/nuclease 2	-2.361	15.203	Down
9188	DDX21	DExD-box helicase 21	-2.234	34.374	Down
5552	SRGN	serglycin	-1.688	12.901	Down
6832	SUPV3L1	Suv3 like RNA helicase	-0.645	4.684	Down
3098	HK1	hexokinase 1	-0.945	24.001	Down
219738	FAM241B	family with sequence similarity 241 member B	-1.028	2.627	Down
84883	AIFM2	apoptosis inducing factor mitochondria associated 2	-2.488	10.036	Down
5464	PPA1	inorganic pyrophosphatase 1	-1.32	9.167	Down
5092	PCBD1	pterin-4 alpha-carbinolamine dehydratase 1	-1.136	9.216	Down
51008	ASCC1	activating signal cointegrator 1 complex subunit 1	-0.649	4.245	Down
54541	DDIT4	DNA damage inducible transcript 4	-3.597	32.484	Down
54788	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12	-0.689	6.954	Down
10367	MICU1	mitochondrial calcium uptake 1	-0.299	1.676	Down
11319	ECD	ecdysoneless cell cycle regulator	-0.773	4.692	Down
23234	DNAJC9	DnaJ heat shock protein family (Hsp40) member C9	-0.687	3.45	Down
51021	MRPS16	mitochondrial ribosomal protein S16	-0.806	4.813	Down
310	ANXA7	annexin A7	-0.663	4.081	Down
118487	CHCHD1	coiled-coil-helix-coiled-coil-helix domain containing 1	-0.945	3.481	Down
5328	PLAU	plasminogen activator, urokinase	-1.096	1.464	Down
132	ADK	adenosine kinase	-0.592	1.719	Down
7417	VDAC2	voltage dependent anion channel 2	-0.67	3.946	Down
118881	COMTD1	catechol-O-methyltransferase domain containing 1	-1.367	4.638	Down
11128	POLR3A	RNA polymerase III subunit A	-0.507	2.043	Down
10105	PPIF	peptidylprolyl isomerase F	-2.142	11.444	Down
143244	EIF5AL1	eukaryotic translation initiation factor 5A like 1	-2.012	23.643	Down
1E+08	LOC100130698	uncharacterized LOC100130698	-2.104	4.912	Down

84293	PRXL2A	peroxiredoxin like 2A	-0.713	2.412	Down
27069	GHITM	growth hormone inducible transmembrane protein	-0.756	3.153	Down
2746	GLUD1	glutamate dehydrogenase 1	-0.402	1.374	Down
54537	SHLD2	shieldin complex subunit 2	-0.378	1.773	Down
55328	RNLS	renalase, FAD dependent amine oxidase	-0.673	1.565	Down
118932	ANKRD22	ankyrin repeat domain 22	-2.127	2.174	Down
355	FAS	Fas cell surface death receptor	-1.956	6.196	Down
10556	RPP30	ribonuclease P/MRP subunit p30	-0.672	2.956	Down
143279	HECTD2	HECT domain E3 ubiquitin protein ligase 2	-0.876	2.067	Down
9044	BTAF1	B-TFIID TATA-box binding protein associated factor 1	-0.621	2.325	Down
3416	IDE	insulin degrading enzyme	-1.065	8.908	Down
26509	MYOF	myoferlin	-2.858	2.355	Down
55165	CEP55	centrosomal protein 55	-2.32	4.329	Down
266971	PIPSL	PIP5K1A and PSMD4 like (pseudogene)	-0.873	4.587	Down
64318	NOC3L	NOC3 like DNA replication regulator	-1.116	11.686	Down
3070	HELLS	helicase, lymphoid specific	-1.84	7.221	Down
5832	ALDH18A1	aldehyde dehydrogenase 18 family member A1	-1.06	5.981	Down
1.05E+08	LOC105378443	uncharacterized LOC105378443	-0.864	1.477	Down
118788	PIK3AP1	phosphoinositide-3-kinase adaptor protein 1	-1.062	2.34	Down
23223	RRP12	ribosomal RNA processing 12 homolog	-2.53	21.208	Down
5223	PGAM1	phosphoglycerate mutase 1	-1.943	11.715	Down
51013	EXOSC1	exosome component 1	-0.895	5.253	Down
84287	ZDHHC16	zinc finger DHHC-type palmitoyltransferase 16	-1.725	19.598	Down
2805	GOT1	glutamic-oxaloacetic transaminase 1	-1.598	4.582	Down
57089	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7	-0.761	4.028	Down
1147	CHUK	component of inhibitor of nuclear factor kappa B kinase complex	-0.852	3.458	Down
55280	CWF19L1	CWF19 like cell cycle control factor 1	-0.426	1.414	Down
6319	SCD	stearoyl-CoA desaturase	-3.274	11.744	Down

4714	NDUFB8	NADH:ubiquinone oxidoreductase subunit B8	-0.92	2.636	Down
56652	TWNK	twinkle mtDNA helicase	-0.922	4.963	Down
25911	DPCD	deleted in primary ciliary dyskinesia homolog (mouse)	-1.434	2.622	Down
10360	NPM3	nucleophosmin/nucleoplasmin 3	-1.995	6.238	Down
23082	PPRC1	PPARG related coactivator 1	-1.239	9.118	Down
9221	NOLC1	nucleolar and coiled-body phosphoprotein 1	-1.536	14.085	Down
8729	GBF1	golgi brefeldin A resistant guanine nucleotide exchange factor 1	-0.495	1.718	Down
4791	NFKB2	nuclear factor kappa B subunit 2	-2.119	10.355	Down
5662	PSD	pleckstrin and Sec7 domain containing	-1.052	2.326	Down
79004	CUEDC2	CUE domain containing 2	-0.616	1.448	Down
79847	MFSD13A	major facilitator superfamily domain containing 13A	-0.552	3.225	Down
10121	ACTR1A	actin related protein 1A	-0.551	3.468	Down
118980	SFXN2	sideroflexin 2	-1.608	10.251	Down
84833	ATP5MK	ATP synthase membrane subunit k	-0.796	1.956	Down
22984	PDCD11	programmed cell death 11	-1.037	4.401	Down
9148	NEURL1	neuralized E3 ubiquitin protein ligase 1	-1.402	4.63	Down
7511	XPNPEP1	X-prolyl aminopeptidase 1	-1.195	4.318	Down
1847	DUSP5	dual specificity phosphatase 5	-3.32	7.998	Down
51703	ACSL5	acyl-CoA synthetase long chain family member 5	-0.644	2.763	Down
64429	ZDHHC6	zinc finger DHHC-type palmitoyltransferase 6	-0.376	1.769	Down
9937	DCLRE1A	DNA cross-link repair 1A	-0.387	1.603	Down
119559	SFXN4	sideroflexin 4	-2.196	26.828	Down
10935	PRDX3	peroxiredoxin 3	-1.336	9.473	Down
7073	TIAL1	TIA1 cytotoxic granule associated RNA binding protein like 1	-0.314	3.132	Down
1.05E+08	LOC105378512	uncharacterized LOC105378512	-1.045	7.415	Down
22876	INPP5F	inositol polyphosphate-5-phosphatase F	-0.821	5.056	Down
79892	MCMBP	minichromosome maintenance complex binding protein	-0.463	1.818	Down
55717	WDR11	WD repeat domain 11	-0.592	4.273	Down

54780	NSMCE4A	NSE4 homolog A, SMC5-SMC6 complex component	-0.762	3.922	Down
9184	BUB3	BUB3 mitotic checkpoint protein	-0.303	1.422	Down
4942	OAT	ornithine aminotransferase	-0.71	5.077	Down
7390	UROS	uroporphyrinogen III synthase	-0.632	2.497	Down
56647	BCCIP	BRCA2 and CDKN1A interacting protein	-1.246	8.217	Down
55760	DHX32	DEAH-box helicase 32 (putative)	-0.664	1.567	Down
10539	GLRX3	glutaredoxin 3	-1.36	9.063	Down
664	BNIP3	BCL2 interacting protein 3	-0.974	1.645	Down
282974	STK32C	serine/threonine kinase 32C	-1.257	3.663	Down
101	ADAM8	ADAM metallopeptidase domain 8	-0.57	1.91	Down
10844	TUBGCP2	tubulin gamma complex associated protein 2	-0.336	1.423	Down
118472	ZNF511	zinc finger protein 511	-1.074	4.987	Down
282969	FUOM	fucose mutarotase	-2.556	28.064	Down
1892	ECHS1	enoyl-CoA hydratase, short chain 1	-0.797	6.562	Down
196743	PAOX	polyamine oxidase	-1.007	5.41	Down
92170	MTG1	mitochondrial ribosome associated GTPase 1	-1.161	7.658	Down
60626	RIC8A	RIC8 guanine nucleotide exchange factor A	-0.389	1.753	Down
5719	PSMD13	proteasome 26S subunit, non-ATPase 13	-1.381	9.411	Down
338707	B4GALNT4	beta-1,4-N-acetyl-galactosaminyltransferase 4	-2.779	3.428	Down
81490	PTDSS2	phosphatidylserine synthase 2	-0.711	3.47	Down
6050	RNH1	ribonuclease/angiogenin inhibitor 1	-0.846	4.552	Down
1.01E+08	LOC101059906		-1.748	2.376	Down
3265	HRAS	HRas proto-oncogene, GTPase	-1.329	10.865	Down
3665	IRF7	interferon regulatory factor 7	-1.084	1.599	Down
6888	TALDO1	transaldolase 1	-1.417	5.806	Down
51286	CEND1	cell cycle exit and neuronal differentiation 1	-3.384	2.384	Down
79751	SLC25A22	solute carrier family 25 member 22	-2.028	23.894	Down
1.02E+08	PANO1	proapoptotic nucleolar protein 1	-1.521	2.578	Down

977	CD151	CD151 molecule (Raph blood group)	-1.29	2.985	Down
5441	POLR2L	RNA polymerase II, I and III subunit L	-1.382	7.678	Down
7106	TSPAN4	tetraspanin 4	-1.202	3.486	Down
66005	CHID1	chitinase domain containing 1	-0.884	3.739	Down
9024	BRSK2	BR serine/threonine kinase 2	-1.714	1.995	Down
1850	DUSP8	dual specificity phosphatase 8	-1.102	2.364	Down
6150	MRPL23	mitochondrial ribosomal protein L23	-1.392	5.34	Down
3481	IGF2	insulin like growth factor 2	-7.333	8.296	Down
723961	INS-IGF2	INS-IGF2 readthrough	-7.011	7.5	Down
430	ASCL2	achaete-scute family bHLH transcription factor 2	-1.705	3.463	Down
1.02E+08	CD81-AS1	CD81 antisense RNA 1	-0.608	2.066	Down
975	CD81	CD81 molecule	-0.407	3.27	Down
10078	TSSC4	tumor suppressing subtransferable candidate 4	-0.538	2.297	Down
7262	PHLDA2	pleckstrin homology like domain family A member 2	-2.494	5.52	Down
833	CARS1	cysteinyl-tRNA synthetase 1	-1.193	5.619	Down
1.01E+08	CARS1-AS1	CARS1 antisense RNA 1	-1.203	5.745	Down
6737	TRIM21	tripartite motif containing 21	-1.136	4.123	Down
23647	ARFIP2	ADP ribosylation factor interacting protein 2	-0.532	2.001	Down
63875	MRPL17	mitochondrial ribosomal protein L17	-1.029	3.516	Down
619562	SNORA3A	small nucleolar RNA, H/ACA box 3A	-2.408	1.93	Down
10527	IPO7	importin 7	-0.661	2.28	Down
7465	WEE1	WEE1 G2 checkpoint kinase	-1.136	5.156	Down
283104	SBF2-AS1	SBF2 antisense RNA 1	-0.917	2.19	Down
1982	EIF4G2	eukaryotic translation initiation factor 4 gamma 2	-0.665	7.469	Down
374378	GALNT18	polypeptide N-acetylgalactosaminyltransferase 18	-1.004	3.06	Down
283106	CSNK2A3	casein kinase 2 alpha 3	-0.902	5.634	Down
9645	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2	-1.207	2.405	Down
22800	RRAS2	RAS related 2	-1.681	15.641	Down

1315	COPB1	COPI coat complex subunit beta 1	-0.559	2.305	Down
5682	PSMA1	proteasome 20S subunit alpha 1	-1.882	21.858	Down
374383	NCR3LG1	natural killer cell cytotoxicity receptor 3 ligand 1	-1.059	2.23	Down
1.08E+08	LOC107984316	replaced by ID 374383	-1.267	1.646	Down
113174	SAAL1	serum amyloid A like 1	-0.988	4.873	Down
3939	LDHA	lactate dehydrogenase A	-1.965	6.353	Down
55293	UEVLD	UEV and lactate/malate dehyrogenase domains	-0.755	3.49	Down
1.01E+08	MISFA	mitochondrial sheath formation associated	-0.529	1.475	Down
144108	SPTY2D1	SPT2 chromatin protein domain containing 1	-0.591	2.86	Down
54503	ZDHHC13	zinc finger DHHC-type palmitoyltransferase 13	-0.472	2.26	Down
10553	HTATIP2	HIV-1 Tat interactive protein 2	-0.456	2.064	Down
10196	PRMT3	protein arginine methyltransferase 3	-0.857	3.316	Down
55327	LIN7C	lin-7 homolog C, crumbs cell polarity complex component	-0.707	1.984	Down
81930	KIF18A	kinesin family member 18A	-1.507	2.496	Down
5954	RCN1	reticulocalbin 1	-2.107	10.22	Down
1479	CSTF3	cleavage stimulation factor subunit 3	-0.52	2.013	Down
1.02E+08	LOC101929918	uncharacterized LOC101929918	-0.741	2.539	Down
4076	CAPRIN1	cell cycle associated protein 1	-0.902	6.853	Down
55226	NAT10	N-acetyltransferase 10	-1.062	9.97	Down
24147	FJX1	four-jointed box kinase 1	-4.311	4.158	Down
143458	LDLRAD3	low density lipoprotein receptor class A domain containing 3	-1.762	1.906	Down
8539	API5	apoptosis inhibitor 5	-0.452	1.558	Down
51144	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12	-0.696	3.974	Down
1.08E+08	LOC107984328	uncharacterized LOC107984328	-0.88	2.738	Down
9537	TP53I11	tumor protein p53 inducible protein 11	-1.257	3.076	Down
120071	LARGE2	LARGE xylosyl- and glucuronyltransferase 2	-1.107	2.102	Down
4192	MDK	midkine	-2.868	4.784	Down
79096	CSTPP1	centriolar satellite-associated tubulin polyglutamylase complex regulator 1	-0.703	4.958	Down

29763	PACSIN3	protein kinase C and casein kinase substrate in neurons 3	-3.631	12.842	Down
53	ACP2	acid phosphatase 2, lysosomal	-1.177	5.866	Down
5702	PSMC3	proteasome 26S subunit, ATPase 3	-1.614	13.6	Down
114971	PTPMT1	protein tyrosine phosphatase mitochondrial 1	-0.573	1.849	Down
4722	NDUFS3	NADH:ubiquinone oxidoreductase core subunit S3	-0.721	2.432	Down
23788	MTCH2	mitochondrial carrier 2	-1.257	8.78	Down
6749	SSRP1	structure specific recognition protein 1	-1.116	16.44	Down
1.05E+08	LOC105369312		-3.027	1.99	Down
29015	SLC43A3	solute carrier family 43 member 3	-3.403	69.712	Down
26519	TIMM10	translocase of inner mitochondrial membrane 10	-1.155	2.782	Down
9246	UBE2L6	ubiquitin conjugating enzyme E2 L6	-0.611	1.466	Down
10978	CLP1	cleavage factor polyribonucleotide kinase subunit 1	-0.529	1.867	Down
219541	MED19	mediator complex subunit 19	-1.011	3.782	Down
1.01E+08	TMX2-CTNND1	TMX2-CTNND1 readthrough (NMD candidate)	-0.348	1.359	Down
51075	TMX2	thioredoxin related transmembrane protein 2	-0.551	1.475	Down
80829	ZFP91	ZFP91 zinc finger protein, atypical E3 ubiquitin ligase	-0.476	2.668	Down
386607	ZFP91-CNTF	ZFP91-CNTF readthrough (NMD candidate)	-0.556	2.291	Down
374393	FAM111B	FAM111 trypsin like peptidase B	-2.659	3.751	Down
54948	MRPL16	mitochondrial ribosomal protein L16	-0.705	3.264	Down
79080	CCDC86	coiled-coil domain containing 86	-2.493	27.902	Down
27339	PRPF19	pre-mRNA processing factor 19	-0.849	12.862	Down
1.05E+08	LOC105369326	uncharacterized LOC105369326	-1.2	1.397	Down
1.05E+08	LOC105369325	uncharacterized LOC105369325	-1.446	4.204	Down
55048	VPS37C	VPS37C subunit of ESCRT-I	-0.498	1.414	Down
220001	VWCE	von Willebrand factor C and EGF domains	-2.711	3.599	Down
1642	DDB1	damage specific DNA binding protein 1	-0.846	4.001	Down
51524	TMEM138	transmembrane protein 138	-0.431	1.887	Down
9066	SYT7	synaptotagmin 7	-3.275	2.845	Down

2237	FEN1	flap structure-specific endonuclease 1	-1.634	20.719	Down
3995	FADS3	fatty acid desaturase 3	-1.427	5.863	Down
80150	ASRGL1	asparaginase and isoaspartyl peptidase 1	-1.712	4.563	Down
9219	MTA2	metastasis associated 1 family member 2	-0.529	5.743	Down
79081	LBHD1	LBH domain containing 1	-1.197	6	Down
1.02E+08	C11orf98	chromosome 11 open reading frame 98	-1.301	6.542	Down
790955	UQCC3	ubiquinol-cytochrome c reductase complex assembly factor 3	-0.698	1.399	Down
10629	TAF6L	TATA-box binding protein associated factor 6 like	-0.479	2.201	Down
1.05E+08	STX5-DT	STX5 divergent transcript	-0.89	6.136	Down
54663	WDR74	WD repeat domain 74	-0.858	5.983	Down
6520	SLC3A2	solute carrier family 3 member 2	-1.81	13.021	Down
144097	SPINDOC	spindlin interactor and repressor of chromatin binding	-0.888	2.869	Down
1351	COX8A	cytochrome c oxidase subunit 8A	-0.543	1.477	Down
55611	OTUB1	OTU deubiquitinase, ubiquitin aldehyde binding 1	-0.646	3.725	Down
10963	STIP1	stress induced phosphoprotein 1	-2.548	21.071	Down
83706	FERMT3	FERM domain containing kindlin 3	-0.677	4.779	Down
2286	FKBP2	FKBP prolyl isomerase 2	-1.037	5.629	Down
1.15E+08	LOC114841035	Uncharacterized protein LOC114841035	-1.025	5.452	Down
26472	PPP1R14B	protein phosphatase 1 regulatory inhibitor subunit 14B	-2.194	14.97	Down
1.05E+08	PPP1R14B-AS1	PPP1R14B antisense RNA 1	-1.745	2.947	Down
56834	GPR137	G protein-coupled receptor 137	-1.162	9.941	Down
2101	ESRRA	estrogen related receptor alpha	-0.977	6.557	Down
51504	TRMT112	tRNA methyltransferase activator subunit 11-2	-0.65	1.574	Down
25824	PRDX5	peroxiredoxin 5	-0.561	1.542	Down
283234	CCDC88B	coiled-coil domain containing 88B	-1.136	2.686	Down
8986	RPS6KA4	ribosomal protein S6 kinase A4	-0.422	1.454	Down
5526	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta	-0.768	2.021	Down
116071	BATF2	basic leucine zipper ATF-like transcription factor 2	-2.492	1.781	Down

1.01E+08	ARL2-SNX15	ARL2-SNX15 readthrough (NMD candidate)	-0.395	2.12	Down
402	ARL2	ADP ribosylation factor like GTPase 2	-1.342	9.059	Down
113130	CDCA5	cell division cycle associated 5	-2.163	18.068	Down
23649	POLA2	DNA polymerase alpha 2, accessory subunit	-1.475	10.652	Down
10435	CDC42EP2	CDC42 effector protein 2	-1.778	4.364	Down
57410	SCYL1	SCY1 like pseudokinase 1	-0.532	2.971	Down
10534	ZNRD2	zinc ribbon domain containing 2	-1.904	20.132	Down
4296	MAP3K11	mitogen-activated protein kinase kinase kinase 11	-0.473	1.466	Down
10524	KAT5	lysine acetyltransferase 5	-0.283	1.472	Down
84153	RNASEH2C	ribonuclease H2 subunit C	-0.818	3.33	Down
254122	SNX32	sorting nexin 32	-0.888	3.405	Down
1072	CFL1	cofilin 1	-0.79	3.634	Down
80198	MUS81	MUS81 structure-specific endonuclease subunit	-0.381	1.837	Down
9158	FIBP	FGF1 intracellular binding protein	-1.044	6.673	Down
8061	FOSL1	FOS like 1, AP-1 transcription factor subunit	-5.501	18.921	Down
10589	DRAP1	DR1 associated protein 1	-0.711	2.893	Down
8815	BANF1	BAF nuclear assembly factor 1	-1.464	26.105	Down
64837	KLC2	kinesin light chain 2	-2.445	16.575	Down
1.05E+08	KLC2-AS1	KLC2 antisense RNA 1	-2.246	11.609	Down
1.05E+08	KLC2-AS2	KLC2 antisense RNA 2	-2.176	2.371	Down
81876	RAB1B	RAB1B, member RAS oncogene family	-0.504	2.096	Down
1.08E+08	LOC107984340	uncharacterized LOC107984340	-0.428	2.402	Down
254263	CNIH2	cornichon family AMPA receptor auxiliary protein 2	-2.201	1.956	Down
10897	YIF1A	Yip1 interacting factor homolog A, membrane trafficking protein	-1.667	10.595	Down
25855	BRMS1	BRMS1 transcriptional repressor and anoikis regulator	-0.64	3.13	Down
65003	MRPL11	mitochondrial ribosomal protein L11	-1.262	4.269	Down
10072	DPP3	dipeptidyl peptidase 3	-2.213	31.952	Down
10432	RBM14	RNA binding motif protein 14	-0.906	4.55	Down

6712	SPTBN2	spectrin beta, non-erythrocytic 2	-1.97	1.967	Down
9986	RCE1	Ras converting CAAX endopeptidase 1	-0.74	4.27	Down
78999	LRFN4	leucine rich repeat and fibronectin type III domain containing 4	-1.358	5.828	Down
29984	RHOD	ras homolog family member D	-2.431	2.546	Down
5883	RAD9A	RAD9 checkpoint clamp component A	-0.387	2.199	Down
5499	PPP1CA	protein phosphatase 1 catalytic subunit alpha	-0.65	2.484	Down
6199	RPS6KB2	ribosomal protein S6 kinase B2	-1.043	9.306	Down
10263	CDK2AP2	cyclin dependent kinase 2 associated protein 2	-0.787	3.112	Down
2950	GSTP1	glutathione S-transferase pi 1	-1.618	7.789	Down
4723	NDUFV1	NADH:ubiquinone oxidoreductase core subunit V1	-0.935	4.449	Down
254552	NUDT8	nudix hydrolase 8	-1.593	4.77	Down
4728	NDUFS8	NADH:ubiquinone oxidoreductase core subunit S8	-0.869	5.035	Down
1119	CHKA	choline kinase alpha	-1.986	15.285	Down
53838	C11orf24	chromosome 11 open reading frame 24	-0.354	1.64	Down
4041	LRP5	LDL receptor related protein 5	-0.793	1.708	Down
55291	PPP6R3	protein phosphatase 6 regulatory subunit 3	-0.522	2.687	Down
51083	GAL	galanin and GMAP prepropeptide	-4.519	2.339	Down
219927	MRPL21	mitochondrial ribosomal protein L21	-1.001	2.821	Down
2017	CTTN	cortactin	-3.238	14.613	Down
1717	DHCR7	7-dehydrocholesterol reductase	-1.377	7.875	Down
55298	RNF121	ring finger protein 121	-0.505	3.993	Down
81570	CLPB	caseinolytic mitochondrial matrix peptidase chaperone subunit B	-1.522	4.44	Down
5138	PDE2A	phosphodiesterase 2A	-1.708	4.289	Down
1.05E+08	PDE2A-AS2	PDE2A antisense RNA 2	-0.903	2.167	Down
10809	STARD10	StAR related lipid transfer domain containing 10	-0.866	2.93	Down
84957	RELT	RELT TNF receptor	-1.208	5.673	Down
51287	COA4	cytochrome c oxidase assembly factor 4 homolog	-1.049	4.953	Down
51400	PPME1	protein phosphatase methylesterase 1	-0.752	6.706	Down

10825	NEU3	neuraminidase 3	-0.593	2.821	Down
84649	DGAT2	diacylglycerol O-acyltransferase 2	-3.061	13.222	Down
1.02E+08	LINC02757	long intergenic non-protein coding RNA 2757	-5.911	3.906	Down
2615	LRRC32	leucine rich repeat containing 32	-2.615	5.276	Down
1.08E+08	LOC107984360		-2.774	4.806	Down
55331	ACER3	alkaline ceramidase 3	-0.651	1.632	Down
92105	INTS4	integrator complex subunit 4	-0.567	4.845	Down
1.01E+08	NDUFC2-KCTD14	NDUFC2-KCTD14 readthrough	-0.659	1.747	Down
79053	ALG8	ALG8 alpha-1,3-glucosyltransferase	-0.707	2.036	Down
220042	DDIAS	DNA damage induced apoptosis suppressor	-1.958	14.507	Down
27314	RAB30	RAB30, member RAS oncogene family	-0.553	2.329	Down
55863	TMEM126B	transmembrane protein 126B	-0.894	2.599	Down
84233	TMEM126A	transmembrane protein 126A	-1.214	4.229	Down
8726	EED	embryonic ectoderm development	-1.613	27.746	Down
51501	HIKESHI	heat shock protein nuclear import factor hikeshi	-0.576	1.503	Down
10873	ME3	malic enzyme 3	-1.756	3.814	Down
65084	TMEM135	transmembrane protein 135	-1.234	17.85	Down
26973	CHORDC1	cysteine and histidine rich domain containing 1	-1.422	8.492	Down
677822	SNORA40	small nucleolar RNA, H/ACA box 40	-1.079	1.377	Down
24145	PANX1	pannexin 1	-0.8	2.6	Down
51503	CWC15	CWC15 spliceosome associated protein homolog	-0.614	2.052	Down
8898	MTMR2	myotubularin related protein 2	-1.463	16.61	Down
4312	MMP1	matrix metallopeptidase 1	-3.195	1.446	Down
84259	DCUN1D5	defective in cullin neddylation 1 domain containing 5	-1.407	14.797	Down
643733	CASP4LP	caspase 4 like, pseudogene	-1.23	2.398	Down
84437	MSANTD4	Myb/SANT DNA binding domain containing 4 with coiled-coils	-0.581	4.246	Down
54733	SLC35F2	solute carrier family 35 member F2	-1.633	31.298	Down
38	ACAT1	acetyl-CoA acetyltransferase 1	-0.928	9.276	Down

1662	DDX10	DEAD-box helicase 10	-1.53	9.949	Down
5962	RDX	radixin	-1.347	9.275	Down
5519	PPP2R1B	protein phosphatase 2 scaffold subunit Abeta	-0.929	5.633	Down
79796	ALG9	ALG9 alpha-1,2-mannosyltransferase	-0.393	2.653	Down
91893	FDXACB1	ferredoxin-fold anticodon binding domain containing 1	-1.035	8.035	Down
1737	DLAT	dihydrolipoamide S-acetyltransferase	-0.954	12.535	Down
120379	PIH1D2	PIH1 domain containing 2	-0.747	4.51	Down
26521	TIMM8B	translocase of inner mitochondrial membrane 8 homolog B	-1.012	2.774	Down
5805	PTS	6-pyruvoyltetrahydropterin synthase	-1.796	13.765	Down
9183	ZW10	zw10 kinetochore protein	-0.616	2.948	Down
8882	ZPR1	ZPR1 zinc finger	-1.042	10.536	Down
196264	MPZL3	myelin protein zero like 3	-1.021	3.869	Down
10205	MPZL2	myelin protein zero like 2	-2.807	19.262	Down
9354	UBE4A	ubiquitination factor E4A	-0.669	2.692	Down
56912	IFT46	intraflagellar transport 46	-0.809	1.879	Down
372	ARCN1	archain 1	-0.513	1.922	Down
23187	PHLDB1	pleckstrin homology like domain family B member 1	-1.148	1.352	Down
51399	TRAPPC4	trafficking protein particle complex subunit 4	-0.81	1.815	Down
10525	HYOU1	hypoxia up-regulated 1	-1.401	14.096	Down
3145	HMBS	hydroxymethylbilane synthase	-1.772	7.111	Down
3014	H2AX	H2A.X variant histone	-1.479	11.013	Down
1798	DPAGT1	dolichyl-phosphate N-acetylglucosaminephosphotransferase 1	-0.793	5.527	Down
23365	ARHGEF12	Rho guanine nucleotide exchange factor 12	-1.174	3.245	Down
3312	HSPA8	heat shock protein family A (Hsp70) member 8	-0.9	3.511	Down
57476	GRAMD1B	GRAM domain containing 1B	-0.927	2.1	Down
9638	FEZ1	fasciculation and elongation protein zeta 1	-2.392	3.115	Down
3703	STT3A	STT3 oligosaccharyltransferase complex catalytic subunit A	-0.561	2.469	Down
1111	CHEK1	checkpoint kinase 1	-2.702	32.054	Down

83480	PUS3	pseudouridine synthase 3	-0.59	2.342	Down
79607	FAM118B	family with sequence similarity 118 member B	-0.497	1.732	Down
6734	SRPRA	SRP receptor subunit alpha	-0.467	2.202	Down
55572	FOXRED1	FAD dependent oxidoreductase domain containing 1	-1.029	7.5	Down
28960	DCPS	decapping enzyme, scavenger	-1.378	7.564	Down
6484	ST3GAL4	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-1.173	4.449	Down
112937	GLB1L3	galactosidase beta 1 like 3	-0.892	2.944	Down
89944	GLB1L2	galactosidase beta 1 like 2	-1.8	4.599	Down
1.08E+08	LOC107987373	replaced by ID 6150	-1.419	6.59	Down
79602	ADIPOR2	adiponectin receptor 2	-0.525	1.385	Down
2288	FKBP4	FKBP prolyl isomerase 4	-2.224	32.139	Down
1.04E+08	CCND2-AS1	CCND2 antisense RNA 1	-2.592	23.423	Down
894	CCND2	cyclin D2	-2.073	33.481	Down
57103	TIGAR	TP53 induced glycolysis regulatory phosphatase	-0.9	6.045	Down
57102	C12orf4	chromosome 12 open reading frame 4	-1.342	16.064	Down
10635	RAD51AP1	RAD51 associated protein 1	-2.797	9.024	Down
4704	NDUFA9	NADH:ubiquinone oxidoreductase subunit A9	-1.312	10.926	Down
51258	MRPL51	mitochondrial ribosomal protein L51	-0.831	2.57	Down
2597	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	-1.53	5.071	Down
4839	NOP2	NOP2 nucleolar protein	-1.4	12.899	Down
1108	CHD4	chromodomain helicase DNA binding protein 4	-0.74	2.261	Down
8079	MLF2	myeloid leukemia factor 2	-1.043	10.794	Down
5763	PTMS	parathymosin	-1.655	2.503	Down
3902	LAG3	lymphocyte activating 3	-3.767	19.553	Down
8078	USP5	ubiquitin specific peptidase 5	-0.994	10.357	Down
7167	TPI1	triosephosphate isomerase 1	-1.942	7.294	Down
2026	ENO2	enolase 2	-0.751	1.982	Down
1822	ATN1	atrophin 1	-1.231	4.399	Down

5777	PTPN6	protein tyrosine phosphatase non-receptor type 6	-1.355	19.099	Down
11331	PHB2	prohibitin 2	-0.895	2.921	Down
10436	EMG1	EMG1 N1-specific pseudouridine methyltransferase	-1.024	8.993	Down
10162	LPCAT3	lysophosphatidylcholine acyltransferase 3	-0.793	3.705	Down
5830	PEX5	peroxisomal biogenesis factor 5	-0.401	1.924	Down
144195	SLC2A14	solute carrier family 2 member 14	-0.636	1.542	Down
6515	SLC2A3	solute carrier family 2 member 3	-0.606	1.788	Down
25977	NECAP1	NECAP endocytosis associated 1	-0.392	1.393	Down
969	CD69	CD69 molecule	-4.2	24.024	Down
55110	MAGOHB	mago homolog B, exon junction complex subunit	-1.46	24.13	Down
8531	YBX3	Y-box binding protein 3	-2.045	4.977	Down
2120	ETV6	ETS variant transcription factor 6	-1.022	2.898	Down
79370	BCL2L14	BCL2 like 14	-2.608	1.961	Down
51202	DDX47	DEAD-box helicase 47	-0.901	3.692	Down
57613	FAM234B	family with sequence similarity 234 member B	-0.742	5.226	Down
2012	EMP1	epithelial membrane protein 1	-2.061	4.624	Down
1.03E+08	LOC102724146	uncharacterized LOC102724146	-1.283	8.548	Down
11171	STRAP	serine/threonine kinase receptor associated protein	-1.118	6.56	Down
121536	AEBP2	AE binding protein 2	-0.452	1.548	Down
79912	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1	-0.592	2.482	Down
51026	GOLT1B	golgi transport 1B	-0.511	2.191	Down
55500	ETNK1	ethanolamine kinase 1	-0.691	2.33	Down
586	BCAT1	branched chain amino acid transaminase 1	-1.004	1.459	Down
55726	INTS13	integrator complex subunit 13	-0.454	1.898	Down
60488	MRPS35	mitochondrial ribosomal protein S35	-0.699	2.503	Down
58516	SINHCAF	SIN3-HDAC complex associated factor	-0.49	1.708	Down
1.01E+08	DENND5B-AS1	DENND5B antisense RNA 1	-3.385	3.842	Down
440093	H3-5	H3.5 histone	-1.108	5.934	Down

10059	DNM1L	dynamin 1 like	-0.914	7.546	Down
51067	YARS2	tyrosyl-tRNA synthetase 2	-0.852	7.315	Down
55605	KIF21A	kinesin family member 21A	-0.858	1.462	Down
83448	PUS7L	pseudouridine synthase 7 like	-0.377	1.847	Down
5756	TWF1	twinfilin actin binding protein 1	-0.582	3.479	Down
1.08E+08	LINC02416	long intergenic non-protein coding RNA 2416	-2.576	2.373	Down
55652	SLC48A1	solute carrier family 48 member 1	-0.638	2.908	Down
51564	HDAC7	histone deacetylase 7	-0.887	6.53	Down
7421	VDR	vitamin D receptor	-3.317	22.769	Down
29843	SENP1	SUMO specific peptidase 1	-0.683	11.182	Down
5213	PFKM	phosphofructokinase, muscle	-1.151	20.577	Down
23519	ANP32D	acidic nuclear phosphoprotein 32 family member D	-0.903	1.474	Down
9416	DDX23	DEAD-box helicase 23	-0.301	1.321	Down
27289	RND1	Rho family GTPase 1	-1.041	2.108	Down
51303	FKBP11	FKBP prolyl isomerase 11	-0.686	2.263	Down
377	ARF3	ADP ribosylation factor 3	-0.401	1.916	Down
23109	DDN	dendrin	-2.545	1.671	Down
5571	PRKAG1	protein kinase AMP-activated non-catalytic subunit gamma 1	-0.477	1.679	Down
121268	RHEBL1	RHEB like 1	-1.269	2.387	Down
10376	TUBA1B	tubulin alpha 1b	-2.834	38.565	Down
1.05E+08	TUBA1B-AS1	TUBA1B antisense RNA 1	-2.846	5.014	Down
7846	TUBA1A	tubulin alpha 1a	-1.544	13.425	Down
84790	TUBA1C	tubulin alpha 1c	-2.873	22.147	Down
10024	TROAP	trophinin associated protein	-2.365	3.146	Down
65244	SPATS2	spermatogenesis associated serine rich 2	-1.131	9.697	Down
29127	RACGAP1	Rac GTPase activating protein 1	-0.444	1.567	Down
41	ASIC1	acid sensing ion channel subunit 1	-2.078	2.53	Down
6602	SMARCD1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1	-0.308	1.306	Down

91012	CERS5	ceramide synthase 5	-0.449	1.594	Down
51474	LIMA1	LIM domain and actin binding 1	-1.7	3.84	Down
113251	LARP4	La ribonucleoprotein 4	-1.558	30.184	Down
4891	SLC11A2	solute carrier family 11 member 2	-1.046	13.479	Down
81566	CSRNP2	cysteine and serine rich nuclear protein 2	-0.283	1.887	Down
11226	GALNT6	polypeptide N-acetylgalactosaminyltransferase 6	-1.033	2.733	Down
3164	NR4A1	nuclear receptor subfamily 4 group A member 1	-6	25.982	Down
60673	ATG101	autophagy related 101	-0.956	4.464	Down
84975	MFSD5	major facilitator superfamily domain containing 5	-0.485	1.515	Down
9700	ESPL1	extra spindle pole bodies like 1, separase	-2.827	4.516	Down
8086	AAAS	aladin WD repeat nucleoporin	-0.867	4.657	Down
6895	TARBP2	TARBP2 subunit of RISC loading complex	-1.08	3.747	Down
3178	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	-0.745	2.711	Down
53831	GPR84	G protein-coupled receptor 84	-2.938	2.909	Down
5153	PDE1B	phosphodiesterase 1B	-0.969	1.525	Down
967	CD63	CD63 molecule	-1.228	4.438	Down
84324	SARNP	SAP domain containing ribonucleoprotein	-0.732	3.188	Down
29095	ORMDL2	ORMDL sphingolipid biosynthesis regulator 2	-0.652	2.656	Down
1017	CDK2	cyclin dependent kinase 2	-1.939	27.745	Down
64375	IKZF4	IKAROS family zinc finger 4	-1.074	2.008	Down
5036	PA2G4	proliferation-associated 2G4	-1.265	13.03	Down
1.08E+08	LOC107987175	replaced by ID 140465	-1.108	1.311	Down
140465	MYL6B	myosin light chain 6B	-1.81	4.323	Down
4637	MYL6	myosin light chain 6	-0.652	1.432	Down
79035	NABP2	nucleic acid binding protein 2	-1.358	16.086	Down
283373	ANKRD52	ankyrin repeat domain 52	-0.555	1.779	Down
1431	CS	citrate synthase	-0.957	6.059	Down
10330	CNPY2	canopy FGF signaling regulator 2	-0.778	2.992	Down

1.12E+08	CNPY2-AS1	CNPY2 antisense RNA 1	-0.906	1.514	Down
51561	IL23A	interleukin 23 subunit alpha	-0.833	3.119	Down
8914	TIMELESS	timeless circadian regulator	-1.611	12.637	Down
1.07E+08	SNORA105C	small nucleolar RNA, H/ACA box 105C	-2.317	11.124	Down
506	ATP5F1B	ATP synthase F1 subunit beta	-1.294	11.59	Down
10728	PTGES3	prostaglandin E synthase 3	-0.788	4.496	Down
23306	NEMP1	nuclear envelope integral membrane protein 1	-0.822	2.611	Down
4665	NAB2	NGFI-A binding protein 2	-1.395	3.679	Down
6778	STAT6	signal transducer and activator of transcription 6	-0.599	3.08	Down
6472	SHMT2	serine hydroxymethyltransferase 2	-1.817	10.267	Down
4141	MARS1	methionyl-tRNA synthetase 1	-2.192	14.789	Down
196403	DTX3	deltex E3 ubiquitin ligase 3	-0.618	1.558	Down
115557	ARHGEF25	Rho guanine nucleotide exchange factor 25	-1.468	1.471	Down
6302	TSPAN31	tetraspanin 31	-1.051	3.194	Down
1019	CDK4	cyclin dependent kinase 4	-1.615	9.993	Down
1594	CYP27B1	cytochrome P450 family 27 subfamily B member 1	-1.787	2.35	Down
4234	METTL1	methyltransferase 1, tRNA methylguanosine	-2.354	14.313	Down
10102	TSFM	Ts translation elongation factor, mitochondrial	-0.829	2.55	Down
1.05E+08	LOC105369783	uncharacterized LOC105369783	-3.377	3.559	Down
10329	RXYLT1	ribitol xylosyltransferase 1	-0.733	2.202	Down
11260	XPOT	exportin for tRNA	-0.813	3.976	Down
29110	TBK1	TANK binding kinase 1	-0.718	3.655	Down
84298	LLPH	LLP homolog, long-term synaptic facilitation factor	-0.701	5.176	Down
55832	CAND1	cullin associated and neddylation dissociated 1	-0.44	1.314	Down
3458	IFNG	interferon gamma	-9.006	32.679	Down
55801	IL26	interleukin 26	-4.152	6.459	Down
50616	IL22	interleukin 22	-6.016	4.063	Down
57122	NUP107	nucleoporin 107	-0.874	2.869	Down

4193	MDM2	MDM2 proto-oncogene	-0.725	10.166	Down
11052	CPSF6	cleavage and polyadenylation specific factor 6	-0.514	2.523	Down
10576	CCT2	chaperonin containing TCP1 subunit 2	-1.727	11.084	Down
23011	RAB21	RAB21, member RAS oncogene family	-0.477	1.936	Down
11103	KRR1	KRR1 small subunit processome component homolog	-0.462	4.287	Down
22822	PHLDA1	pleckstrin homology like domain family A member 1	-2.372	12.957	Down
29080	CCDC59	coiled-coil domain containing 59	-0.527	1.352	Down
1848	DUSP6	dual specificity phosphatase 6	-2.429	11.165	Down
1.01E+08	POC1B-GALNT4	POC1B-GALNT4 readthrough	-1.419	7.42	Down
8693	GALNT4	polypeptide N-acetylgalactosaminyltransferase 4	-1.474	7.868	Down
7334	UBE2N	ubiquitin conjugating enzyme E2 N	-1.093	4.618	Down
28977	MRPL42	mitochondrial ribosomal protein L42	-0.489	3.469	Down
10988	METAP2	methionyl aminopeptidase 2	-0.586	3.942	Down
6636	SNRPF	small nuclear ribonucleoprotein polypeptide F	-1.211	6.19	Down
1.03E+08	LOC102723340	uncharacterized LOC102723340	-0.791	3.266	Down
4048	LTA4H	leukotriene A4 hydrolase	-0.942	5.728	Down
7112	TMPO	thymopoietin	-0.312	1.423	Down
5250	SLC25A3	solute carrier family 25 member 3	-0.678	2.246	Down
121457	IKBIP	IKBKB interacting protein	-0.843	2.216	Down
23074	BLTP3B	bridge-like lipid transfer protein family member 3B	-1.431	21.06	Down
27340	UTP20	UTP20 small subunit processome component	-1.827	16.199	Down
55332	DRAM1	DNA damage regulated autophagy modulator 1	-1.154	2.336	Down
79023	NUP37	nucleoporin 37	-0.783	3.571	Down
51559	NT5DC3	5'-nucleotidase domain containing 3	-0.902	3.097	Down
7184	HSP90B1	heat shock protein 90 beta family member 1	-0.99	8.166	Down
1.01E+08	MIR3652	microRNA 3652	-0.974	5.011	Down
728568	UQCC6	ubiquinol-cytochrome c reductase complex assembly factor 6	-0.524	1.721	Down
6996	TDG	thymine DNA glycosylase	-1.01	12.149	Down

7296	TXNRD1	thioredoxin reductase 1	-1.656	12.554	Down
50515	CHST11	carbohydrate sulfotransferase 11	-1.03	8.466	Down
84102	SLC41A2	solute carrier family 41 member 2	-1.585	2.274	Down
121053	NOPCHAP1	NOP protein chaperone 1	-0.613	1.373	Down
55703	POLR3B	RNA polymerase III subunit B	-0.694	1.768	Down
11137	PWP1	PWP1 homolog, endonuclein	-0.678	3.961	Down
11153	FICD	FIC domain protein adenylyltransferase	-1.046	3.81	Down
23603	CORO1C	coronin 1C	-1.305	5.689	Down
1E+08	USP30-AS1	USP30 antisense RNA 1	-0.817	1.319	Down
121642	ALKBH2	alkB homolog 2, alpha-ketoglutarate dependent dioxygenase	-0.887	2.149	Down
83892	KCTD10	potassium channel tetramerization domain containing 10	-0.476	2.182	Down
326625	MMAB	metabolism of cobalamin associated B	-1.588	11.336	Down
4598	MVK	mevalonate kinase	-1.851	13.908	Down
84915	FAM222A	family with sequence similarity 222 member A	-1.045	1.388	Down
488	ATP2A2	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2	-1.646	19.598	Down
51184	GPN3	GPN-loop GTPase 3	-1.04	4.613	Down
144715	RAD9B	RAD9 checkpoint clamp component B	-1.389	15.929	Down
160760	PPTC7	protein phosphatase targeting COQ7	-1.47	21.103	Down
5501	PPP1CC	protein phosphatase 1 catalytic subunit gamma	-0.657	5.14	Down
10019	SH2B3	SH2B adaptor protein 3	-0.745	1.984	Down
80018	NAA25	N-alpha-acetyltransferase 25, NatB auxiliary subunit	-0.885	4.242	Down
10906	TRAFD1	TRAF-type zinc finger domain containing 1	-1.045	1.991	Down
5781	PTPN11	protein tyrosine phosphatase non-receptor type 11	-0.959	10.075	Down
387885	CFAP73	cilia and flagella associated protein 73	-0.807	3.655	Down
79039	DDX54	DEAD-box helicase 54	-0.751	3.648	Down
9904	RBM19	RNA binding motif protein 19	-1.528	3.248	Down
54997	TESC	tescalcin	-2.737	8.881	Down
5985	RFC5	replication factor C subunit 5	-0.867	9.4	Down

55884	WSB2	WD repeat and SOCS box containing 2	-1.149	9.267	Down
5037	PEBP1	phosphatidylethanolamine binding protein 1	-0.394	1.351	Down
92558	BICDL1	BICD family like cargo adaptor 1	-0.863	1.457	Down
11021	RAB35	RAB35, member RAS oncogene family	-0.404	3.836	Down
10985	GCN1	GCN1 activator of EIF2AK4	-0.706	5.347	Down
1337	COX6A1	cytochrome c oxidase subunit 6A1	-0.978	2.663	Down
51499	TRIAP1	TP53 regulated inhibitor of apoptosis 1	-0.835	2.905	Down
283459	GATC	glutamyl-tRNA amidotransferase subunit C	-0.553	3.679	Down
8683	SRSF9	serine and arginine rich splicing factor 9	-0.916	9.173	Down
8655	DYNLL1	dynein light chain LC8-type 1	-0.81	2.363	Down
1.01E+08	NRAV	negative regulator of antiviral response	-0.697	1.375	Down
51367	POP5	POP5 homolog, ribonuclease P/MRP subunit	-1.011	3.511	Down
64897	C12orf43	chromosome 12 open reading frame 43	-0.657	3.098	Down
5027	P2RX7	purinergic receptor P2X 7	-1.632	4.646	Down
10645	CAMKK2	calcium/calmodulin dependent protein kinase kinase 2	-0.492	1.953	Down
80196	RNF34	ring finger protein 34	-0.525	4.233	Down
5715	PSMD9	proteasome 26S subunit, non-ATPase 9	-0.85	4.683	Down
386653	IL31	interleukin 31	-5.425	1.665	Down
56616	DIABLO	diablo IAP-binding mitochondrial protein	-0.456	1.37	Down
9735	KNTC1	kinetochore associated 1	-0.758	1.554	Down
27198	HCAR1	hydroxycarboxylic acid receptor 1	-3.916	6.69	Down
8099	CDK2AP1	cyclin dependent kinase 2 associated protein 1	-2.227	22.754	Down
57696	DDX55	DEAD-box helicase 55	-0.555	3.26	Down
1967	EIF2B1	eukaryotic translation initiation factor 2B subunit alpha	-0.601	2.12	Down
2967	GTF2H3	general transcription factor IIH subunit 3	-0.626	2.88	Down
23545	ATP6V0A2	ATPase H+ transporting V0 subunit a2	-1.216	9.868	Down
949	SCARB1	scavenger receptor class B member 1	-2.349	16.578	Down
7316	UBC	ubiquitin C	-0.627	1.982	Down

57647	DHX37	DEAH-box helicase 37	-1.167	9.597	Down
65985	AACS	acetoacetyl-CoA synthetase	-0.437	1.65	Down
5901	RAN	RAN, member RAS oncogene family	-1.724	13.467	Down
80324	PUS1	pseudouridine synthase 1	-1.547	20.998	Down
79050	NOC4L	nucleolar complex associated 4 homolog	-1.313	7.335	Down
192111	PGAM5	PGAM family member 5, mitochondrial serine/threonine protein phosphatase	-1.147	8.894	Down
23141	ANKLE2	ankyrin repeat and LEM domain containing 2	-0.549	4.822	Down
2706	GJB2	gap junction protein beta 2	-7.427	7.634	Down
10804	GJB6	gap junction protein beta 6	-1.912	2.348	Down
53342	IL17D	interleukin 17D	-2.658	9.832	Down
221150	SKA3	spindle and kinetochore associated complex subunit 3	-2.031	3.716	Down
78988	MRPL57	mitochondrial ribosomal protein L57	-0.51	1.5	Down
221154	MICU2	mitochondrial calcium uptake 2	-0.432	1.669	Down
4285	MIPEP	mitochondrial intermediate peptidase	-1.242	10.002	Down
479	ATP12A	ATPase H+/K+ transporting non-gastric alpha2 subunit	-4.407	8.241	Down
9818	NUP58	nucleoporin 58	-1.063	10.1	Down
6049	RNF6	ring finger protein 6	-0.283	1.332	Down
219333	USP12	ubiquitin specific peptidase 12	-1.035	6.669	Down
2321	FLT1	fms related receptor tyrosine kinase 1	-1.325	6.005	Down
51371	POMP	proteasome maturation protein	-1.774	14.895	Down
6541	SLC7A1	solute carrier family 7 member 1	-1.978	7.317	Down
171222	UBE2L5	ubiquitin conjugating enzyme E2 L5	-1.213	5.102	Down
10808	HSPH1	heat shock protein family H (Hsp110) member 1	-2.153	30.315	Down
1.08E+08	LOC107984551	uncharacterized LOC107984551	-5.206	3.33	Down
5983	RFC3	replication factor C subunit 3	-1.075	5.471	Down
5994	RFXAP	regulatory factor X associated protein	-1.101	4.776	Down
29880	ALG5	ALG5 dolichyl-phosphate beta-glucosyltransferase	-0.634	1.922	Down
11340	EXOSC8	exosome component 8	-1.094	7.448	Down

51569	UFM1	ubiquitin fold modifier 1	-0.607	8.113	Down
10240	MRPS31	mitochondrial ribosomal protein S31	-0.545	1.901	Down
10166	SLC25A15	solute carrier family 25 member 15	-0.648	3.477	Down
11193	WBP4	WW domain binding protein 4	-0.977	7.623	Down
8600	TNFSF11	TNF superfamily member 11	-2.412	6.77	Down
144811	LACC1	laccase domain containing 1	-1.562	3.527	Down
26747	NUFIP1	nuclear FMR1 interacting protein 1	-0.864	4.628	Down
2963	GTF2F2	general transcription factor IIF subunit 2	-1.097	7.29	Down
3936	LCP1	lymphocyte cytosolic protein 1	-0.67	2.14	Down
55270	NUDT15	nudix hydrolase 15	-0.927	4.459	Down
5925	RB1	RB transcriptional corepressor 1	-0.66	5.331	Down
57105	CYSLTR2	cysteinyl leukotriene receptor 2	-1.683	5.249	Down
1.07E+08	SETDB2-PHF11	SETDB2-PHF11 readthrough	-0.54	2.388	Down
51131	PHF11	PHD finger protein 11	-0.818	3.546	Down
3839	KPNA3	karyopherin subunit alpha 3	-0.702	2.741	Down
57213	SPRYD7	SPRY domain containing 7	-0.656	3.638	Down
8847	DLEU2	deleted in lymphocytic leukemia 2	-0.676	2.869	Down
144983	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1 like 2	-0.736	3.209	Down
10910	SUGT1	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone	-0.506	3.052	Down
81624	DIAPH3	diaphanous related formin 3	-2.815	2.218	Down
440145	MZT1	mitotic spindle organizing protein 1	-0.675	4.477	Down
22894	DIS3	DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease	-0.647	4.745	Down
7347	UCHL3	ubiquitin C-terminal hydrolase L3	-1.257	4.263	Down
1.02E+08	LMO7-AS1	LMO7 antisense RNA 1	-1.145	2.984	Down
4008	LMO7	LIM domain 7	-1.067	3.998	Down
54602	NDFIP2	Nedd4 family interacting protein 2	-4.247	21.877	Down
407975	MIR17HG	miR-17-92a-1 cluster host gene	-1.754	1.991	Down
23483	TGDS	TDP-glucose 4,6-dehydratase	-0.455	2.137	Down

5611	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3	-0.664	6.137	Down
3843	IPO5	importin 5	-0.963	8.707	Down
1.01E+08	STK24-AS1	STK24 antisense RNA 1	-2.187	2.079	Down
1.08E+08	LOC107984558		-5.901	4.215	Down
1.05E+08	PCCA-DT	PCCA divergent transcript	-3.102	5.244	Down
84899	TMTC4	transmembrane O-mannosyltransferase targeting cadherins 4	-1.062	3.148	Down
1.05E+08	LOC105370337	uncharacterized LOC105370337	-1.714	2.69	Down
93081	TEX30	testis expressed 30	-1.306	3.291	Down
79070	POGLUT2	protein O-glucosyltransferase 2	-1.41	2.109	Down
3981	LIG4	DNA ligase 4	-0.958	5.452	Down
79587	CARS2	cysteinyl-tRNA synthetase 2, mitochondrial	-0.971	4.717	Down
7027	TFDP1	transcription factor Dp-1	-1.502	27.95	Down
8881	CDC16	cell division cycle 16	-1.071	6.095	Down
1.05E+08	LOC105370384	uncharacterized LOC105370384	-0.964	1.943	Down
641455	POTEM	POTE ankyrin domain family member M	-1.461	6.953	Down
404785	POTEG	POTE ankyrin domain family member G	-1.449	1.589	Down
91875	TTC5	tetratricopeptide repeat domain 5	-0.6	2.741	Down
55644	OSGEP	O-sialoglycoprotein endopeptidase	-1.128	5.907	Down
4860	PNP	purine nucleoside phosphorylase	-0.859	2.896	Down
64745	METTL17	methyltransferase like 17	-1.092	11.983	Down
1.02E+08	LOC101929718	uncharacterized LOC101929718	-0.865	3.947	Down
3183	HNRNPC	heterogeneous nuclear ribonucleoprotein C	-0.738	3.325	Down
11198	SUPT16H	SPT16 homolog, facilitates chromatin remodeling subunit	-0.414	2.999	Down
28721	TRAJ34	T cell receptor alpha joining 34	-1.468	1.422	Down
122704	MRPL52	mitochondrial ribosomal protein L52	-1.601	7.768	Down
1.01E+08	PRMT5-AS1	PRMT5 antisense RNA 1	-1.701	9.533	Down
10419	PRMT5	protein arginine methyltransferase 5	-1.705	11.367	Down
5693	PSMB5	proteasome 20S subunit beta 5	-1.641	14.349	Down

1.01E+08	BCL2L2-PABPN1	BCL2L2-PABPN1 readthrough	-0.853	9.704	Down
8106	PABPN1	poly(A) binding protein nuclear 1	-0.815	6.128	Down
25983	NGDN	neuroguidin	-0.522	2.307	Down
79178	THTPA	thiamine triphosphatase	-0.4	1.479	Down
85446	ZFHX2	zinc finger homeobox 2	-1.71	4.29	Down
84502	JPH4	junctophilin 4	-3.483	2.305	Down
5106	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial	-1.518	8.287	Down
5720	PSME1	proteasome activator subunit 1	-1.125	3.755	Down
51016	EMC9	ER membrane protein complex subunit 9	-0.955	2.592	Down
5721	PSME2	proteasome activator subunit 2	-2.081	6.719	Down
1.02E+08	MIR7703	microRNA 7703	-2.119	7.022	Down
9985	REC8	REC8 meiotic recombination protein	-0.824	2.739	Down
79711	IPO4	importin 4	-2.12	22.794	Down
29082	CHMP4A	charged multivesicular body protein 4A	-0.709	4.094	Down
5875	RABGGTA	Rab geranylgeranyltransferase subunit alpha	-0.745	5.003	Down
161424	NOP9	NOP9 nucleolar protein	-0.824	4.986	Down
27141	CIDEB	cell death inducing DFFA like effector b	-0.482	2.392	Down
2999	GZMH	granzyme H	-2.928	2.454	Down
3002	GZMB	granzyme B	-5.98	9.265	Down
23256	SCFD1	sec1 family domain containing 1	-0.476	2.592	Down
80224	NUBPL	NUBP iron-sulfur cluster assembly factor, mitochondrial	-0.671	1.582	Down
171546	SPTSSA	serine palmitoyltransferase small subunit A	-0.629	1.816	Down
1073	CFL2	cofilin 2	-1.045	3.252	Down
11177	BAZ1A	bromodomain adjacent to zinc finger domain 1A	-1.204	3.775	Down
1.12E+08	BAZ1A-AS1	BAZ1A antisense RNA 1	-1.677	8.023	Down
6729	SRP54	signal recognition particle 54	-1.131	9.34	Down
283635	FAM177A1	family with sequence similarity 177 member A1	-1.022	8.935	Down
1.02E+08	LOC101927178	uncharacterized LOC101927178	-0.949	4.577	Down

55012	PPP2R3C	protein phosphatase 2 regulatory subunit B''gamma	-0.565	1.573	Down
5687	PSMA6	proteasome 20S subunit alpha 6	-1.759	12.14	Down
4792	NFKBIA	NFKB inhibitor alpha	-2.338	11.332	Down
84312	BRMS1L	BRMS1 like transcriptional repressor	-0.742	2.254	Down
51562	MBIP	MAP3K12 binding inhibitory protein 1	-0.797	6.821	Down
5411	PNN	pinin, desmosome associated protein	-0.65	1.918	Down
254170	FBXO33	F-box protein 33	-0.869	6.702	Down
55015	PRPF39	pre-mRNA processing factor 39	-0.559	3.876	Down
2287	FKBP3	FKBP prolyl isomerase 3	-0.725	5.046	Down
122769	LRR1	leucine rich repeat protein 1	-0.697	3.901	Down
4247	MGAT2	alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	-0.681	6.658	Down
5427	POLE2	DNA polymerase epsilon 2, accessory subunit	-2.585	14.189	Down
382	ARF6	ADP ribosylation factor 6	-0.904	13.595	Down
11183	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	-1.408	10.264	Down
81542	TMX1	thioredoxin related transmembrane protein 1	-0.534	2.003	Down
5706	PSMC6	proteasome 26S subunit, ATPase 6	-1.01	10.594	Down
64841	GNPNAT1	glucosamine-phosphate N-acetyltransferase 1	-0.873	4.713	Down
80821	DDHD1	DDHD domain containing 1	-1.498	12.696	Down
1033	CDKN3	cyclin dependent kinase inhibitor 3	-1.031	1.792	Down
2764	GMFB	glia maturation factor beta	-0.863	5.585	Down
23034	SAMD4A	sterile alpha motif domain containing 4A	-2.04	8.184	Down
2643	GCH1	GTP cyclohydrolase 1	-1.41	5.986	Down
11169	WDHD1	WD repeat and HMG-box DNA binding protein 1	-1.552	9.452	Down
122809	SOCS4	suppressor of cytokine signaling 4	-0.87	6.799	Down
93487	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1 like	-0.716	3.372	Down
9787	DLGAP5	DLG associated protein 5	-2.789	2.333	Down
5684	PSMA3	proteasome 20S subunit alpha 3	-1.81	12.886	Down
51339	DACT1	dishevelled binding antagonist of beta catenin 1	-1.062	2.55	Down

4331	MNAT1	MNAT1 component of CDK activating kinase	-1.182	6.438	Down
57570	TRMT5	tRNA methyltransferase 5	-0.459	1.915	Down
1.01E+08	HIF1A-AS1	HIF1A antisense RNA 1	-2.124	16.47	Down
3091	HIF1A	hypoxia inducible factor 1 subunit alpha	-2.145	21.216	Down
1.01E+08	HIF1A-AS2	HIF1A antisense RNA 2	-1.995	19.694	Down
6617	SNAPC1	small nuclear RNA activating complex polypeptide 1	-0.935	5.412	Down
4522	MTHFD1	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1	-1.744	22.595	Down
3306	HSPA2	heat shock protein family A (Hsp70) member 2	-3.157	10.93	Down
376267	RAB15	RAB15, member RAS oncogene family	-0.886	3.264	Down
2342	FNTB	farnesyltransferase, CAAX box, beta	-0.492	1.465	Down
10243	GPHN	gephyrin	-0.783	3.065	Down
1965	EIF2S1	eukaryotic translation initiation factor 2 subunit alpha	-1.292	22.605	Down
677	ZFP36L1	ZFP36 ring finger protein like 1	-0.544	1.397	Down
2079	ERH	ERH mRNA splicing and mitosis factor	-1.035	4.797	Down
9766	SUSD6	sushi domain containing 6	-0.832	5.828	Down
6547	SLC8A3	solute carrier family 8 member A3	-1.238	1.351	Down
1.01E+08	MAP3K9-DT	MAP3K9 divergent transcript	-1.577	2.031	Down
1.05E+08	RBM25-AS1	RBM25 antisense RNA 1	-1.236	2.961	Down
58517	RBM25	RNA binding motif protein 25	-0.984	2.08	Down
122970	ACOT4	acyl-CoA thioesterase 4	-1.8	4.873	Down
83694	RPS6KL1	ribosomal protein S6 kinase like 1	-2.004	6.677	Down
8892	EIF2B2	eukaryotic translation initiation factor 2B subunit beta	-0.776	4.081	Down
2353	FOS	Fos proto-oncogene, AP-1 transcription factor subunit	-2.927	4.649	Down
1.05E+08	LOC105370572	uncharacterized LOC105370572	-2.634	2.242	Down
10538	BATF	basic leucine zipper ATF-like transcription factor	-3.384	14.525	Down
11161	ERG28	ergosterol biosynthesis 28 homolog	-0.775	2.826	Down
283578	TMED8	transmembrane p24 trafficking protein family member 8	-0.597	1.796	Down
10598	AHSA1	activator of HSP90 ATPase activity 1	-1.539	31.568	Down

81892	SLIRP	SRA stem-loop interacting RNA binding protein	-1.664	8.737	Down
57143	ADCK1	aarF domain containing kinase 1	-0.944	2.42	Down
8477	GPR65	G protein-coupled receptor 65	-0.631	2.075	Down
400236	FOXN3-AS1	FOXN3 antisense RNA 1	-2.395	8.015	Down
5700	PSMC1	proteasome 26S subunit, ATPase 1	-1.558	15.047	Down
55051	NRDE2	NRDE-2, necessary for RNA interference, domain containing	-0.811	10.856	Down
145567	TTC7B	tetratricopeptide repeat domain 7B	-2.302	7.202	Down
9252	RPS6KA5	ribosomal protein S6 kinase A5	-0.593	1.755	Down
5641	LGMN	legumain	-1.735	5.346	Down
3705	ITPK1	inositol-tetrakisphosphate 1-kinase	-0.568	2.196	Down
51676	ASB2	ankyrin repeat and SOCS box containing 2	-2.394	13.538	Down
78990	OTUB2	OTU deubiquitinase, ubiquitin aldehyde binding 2	-2.643	10.823	Down
3429	IFI27	interferon alpha inducible protein 27	-2.447	3.218	Down
10914	PAPOLA	poly(A) polymerase alpha	-0.247	1.98	Down
7443	VRK1	VRK serine/threonine kinase 1	-0.427	2.101	Down
2009	EML1	EMAP like 1	-2.561	1.514	Down
7453	WARS1	tryptophanyl-tRNA synthetase 1	-3.264	9.501	Down
3320	HSP90AA1	heat shock protein 90 alpha family class A member 1	-2.35	39.003	Down
51550	CINP	cyclin dependent kinase 2 interacting protein	-0.683	3.066	Down
122416	ANKRD9	ankyrin repeat domain 9	-1.317	3.224	Down
7187	TRAF3	TNF receptor associated factor 3	-0.723	3.128	Down
1.05E+08	LOC105370687	uncharacterized LOC105370687	-0.504	1.462	Down
1983	EIF5	eukaryotic translation initiation factor 5	-0.363	2.272	Down
115708	TRMT61A	tRNA methyltransferase 61A	-1.449	11.009	Down
7517	XRCC3	X-ray repair cross complementing 3	-0.937	2.845	Down
1.03E+08	LOC102723342	uncharacterized LOC102723342	-0.633	4.499	Down
207	AKT1	AKT serine/threonine kinase 1	-0.723	6.579	Down
283638	CEP170B	centrosomal protein 170B	-1.172	1.941	Down

55038	CDCA4	cell division cycle associated 4	-0.706	3.569	Down
3714	JAG2	jagged canonical Notch ligand 2	-1.512	4.258	Down
3507	IGHM	immunoglobulin heavy constant mu	-1.587	1.91	Down
28473	IGHV1-3	immunoglobulin heavy variable 1-3	-3.83	6.239	Down
123606	NIPA1	NIPA magnesium transporter 1	-0.804	3.956	Down
81614	NIPA2	NIPA magnesium transporter 2	-0.743	2.361	Down
23191	CYFIP1	cytoplasmic FMR1 interacting protein 1	-0.454	1.508	Down
1.05E+08	LOC105376707		-2.018	2.75	Down
9824	ARHGAP11A	Rho GTPase activating protein 11A	-1.062	1.851	Down
1.14E+08	ARHGAP11A-SCG5	ARHGAP11A-SCG5 readthrough	-1.131	1.797	Down
57099	AVEN	apoptosis and caspase activation inhibitor	-1.343	11.159	Down
56851	EMC7	ER membrane protein complex subunit 7	-0.757	4.352	Down
79768	KATNBL1	katanin regulatory subunit B1 like 1	-0.948	5.728	Down
51234	EMC4	ER membrane protein complex subunit 4	-0.554	1.325	Down
55505	NOP10	NOP10 ribonucleoprotein	-1.283	6.174	Down
723972	ANP32AP1	acidic nuclear phosphoprotein 32 family member A pseudogene 1	-0.798	1.848	Down
161742	SPRED1	sprouty related EVH1 domain containing 1	-0.893	1.313	Down
283742	FAM98B	family with sequence similarity 98 member B	-0.501	1.536	Down
6727	SRP14	signal recognition particle 14	-0.533	1.643	Down
701	BUB1B	BUB1 mitotic checkpoint serine/threonine kinase B	-1.639	2.899	Down
1.01E+08	INAFM2	InaF motif containing 2	-0.499	1.571	Down
90417	KNSTRN	kinetochore localized astrin (SPAG5) binding protein	-1.504	5.048	Down
90416	CCDC32	coiled-coil domain containing 32	-0.598	1.608	Down
5888	RAD51	RAD51 recombinase	-2.047	5.097	Down
55177	RMDN3	regulator of microtubule dynamics 3	-0.908	6.985	Down
55192	DNAJC17	DnaJ heat shock protein family (Hsp40) member C17	-0.421	1.524	Down
6692	SPINT1	serine peptidase inhibitor, Kunitz type 1	-0.593	1.65	Down
79094	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1	-5.153	17.434	Down

11261	CHP1	calcineurin like EF-hand protein 1	-0.719	3.05	Down
11339	OIP5	Opa interacting protein 5	-1.718	4.184	Down
51203	NUSAP1	nucleolar and spindle associated protein 1	-1.472	4.801	Down
51103	NDUFAF1	NADH:ubiquinone oxidoreductase complex assembly factor 1	-1.308	13.484	Down
7301	TYRO3	TYRO3 protein tyrosine kinase	-2.721	4.447	Down
1.05E+08	LOC105370792	uncharacterized LOC105370792	-1.083	5.654	Down
30844	EHD4	EH domain containing 4	-1.743	13.641	Down
9836	LCMT2	leucine carboxyl methyltransferase 2	-0.69	4.902	Down
27229	TUBGCP4	tubulin gamma complex associated protein 4	-0.627	4.035	Down
7158	TP53BP1	tumor protein p53 binding protein 1	-0.664	1.511	Down
2923	PDIA3	protein disulfide isomerase family A member 3	-0.881	4.46	Down
80237	ELL3	elongation factor for RNA polymerase II 3	-0.947	2.706	Down
1.01E+08	SERF2-C15ORF63	SERF2-C15orf63 readthrough	-0.743	2.511	Down
25764	HYPK	huntingtin interacting protein K	-1.927	16.04	Down
4236	MFAP1	microfibril associated protein 1	-0.797	5.251	Down
79968	WDR76	WD repeat domain 76	-0.84	3.718	Down
8669	EIF3J	eukaryotic translation initiation factor 3 subunit J	-1.079	6.331	Down
653381	SORD2P	sorbitol dehydrogenase 2, pseudogene	-1.571	5.61	Down
6652	SORD	sorbitol dehydrogenase	-1.534	9.224	Down
90525	SHF	Src homology 2 domain containing F	-2.05	7.258	Down
79029	SPATA5L1	spermatogenesis associated 5 like 1	-0.786	2.027	Down
58472	SQOR	sulfide quinone oxidoreductase	-1.113	3.314	Down
9318	COPS2	COP9 signalosome subunit 2	-0.465	1.675	Down
11001	SLC27A2	solute carrier family 27 member 2	-3.091	10.403	Down
2553	GABPB1	GA binding protein transcription factor subunit beta 1	-1.45	12.826	Down
84888	SPPL2A	signal peptide peptidase like 2A	-1.634	11.084	Down
1E+08	DCAF13P3	DDB1 and CUL4 associated factor 13 pseudogene 3	-1.389	1.598	Down
123169	LEO1	LEO1 homolog, Paf1/RNA polymerase II complex component	-0.551	1.581	Down

5597	MAPK6	mitogen-activated protein kinase 6	-1.579	11.445	Down
10776	ARPP19	cAMP regulated phosphoprotein 19	-0.496	3.625	Down
5873	RAB27A	RAB27A, member RAS oncogene family	-0.646	2.028	Down
8854	ALDH1A2	aldehyde dehydrogenase 1 family member A2	-4.307	2.118	Down
664618	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene	-2.248	1.599	Down
9133	CCNB2	cyclin B2	-1.924	2.394	Down
2958	GTF2A2	general transcription factor IIA subunit 2	-0.885	3.114	Down
27023	FOXB1	forkhead box B1	-2.323	1.791	Down
114294	LACTB	lactamase beta	-1.849	18.449	Down
79856	SNX22	sorting nexin 22	-0.742	1.944	Down
5479	PPIB	peptidylprolyl isomerase B	-0.727	1.965	Down
53944	CSNK1G1	casein kinase 1 gamma 1	-0.537	2.078	Down
9768	PCLAF	PCNA clamp associated factor	-2.343	5.383	Down
9325	TRIP4	thyroid hormone receptor interactor 4	-0.439	1.815	Down
10260	DENND4A	DENN domain containing 4A	-0.651	2.714	Down
54962	TIPIN	TIMELESS interacting protein	-1.806	27.727	Down
5604	MAP2K1	mitogen-activated protein kinase kinase 1	-0.351	1.487	Down
55055	ZWILCH	zwilch kinetochore protein	-0.841	2.697	Down
79719	AAGAB	alpha and gamma adaptin binding protein	-0.798	6.936	Down
54982	CLN6	CLN6 transmembrane ER protein	-1.627	15.905	Down
8125	ANP32A	acidic nuclear phosphoprotein 32 family member A	-0.799	7.639	Down
9493	KIF23	kinesin family member 23	-1.59	1.443	Down
5315	PKM	pyruvate kinase M1/2	-1.603	5.525	Down
83440	ADPGK	ADP dependent glucokinase	-0.368	1.679	Down
27020	NPTN	neuroplastin	-0.451	5.088	Down
5371	PML	PML nuclear body scaffold	-0.45	1.992	Down
8482	SEMA7A	semaphorin 7A (John Milton Hagen blood group)	-2.662	6.318	Down
1543	CYP1A1	cytochrome P450 family 1 subfamily A member 1	-1.781	3.023	Down

1445	CSK	C-terminal Src kinase	-0.623	3.392	Down
9377	COX5A	cytochrome c oxidase subunit 5A	-1.271	8.49	Down
54913	RPP25	ribonuclease P and MRP subunit p25	-0.847	1.584	Down
10073	SNUPN	snurportin 1	-0.519	1.874	Down
26263	FBXO22	F-box protein 22	-0.575	1.832	Down
2108	ETFA	electron transfer flavoprotein subunit alpha	-1.335	8.189	Down
10518	CIB2	calcium and integrin binding family member 2	-1.402	5.478	Down
3419	IDH3A	isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha	-1.54	22.44	Down
23205	ACSBG1	acyl-CoA synthetase bubblegum family member 1	-1.449	14.738	Down
55466	DNAJA4	DnaJ heat shock protein family (Hsp40) member A4	-1.192	23.64	Down
1.05E+08	LOC105370910	uncharacterized LOC105370910	-0.822	3.435	Down
80349	SKIC8	SKI8 subunit of superkiller complex	-0.599	2.288	Down
5685	PSMA4	proteasome 20S subunit alpha 4	-1.447	11.676	Down
1138	CHRNA5	cholinergic receptor nicotinic alpha 5 subunit	-1.098	2.503	Down
23423	TMED3	transmembrane p24 trafficking protein 3	-0.635	3.029	Down
400410	ST20	suppressor of tumorigenicity 20	-1.171	3.484	Down
597	BCL2A1	BCL2 related protein A1	-1.483	2.863	Down
2184	FAH	fumarylacetoacetate hydrolase	-2.271	28.769	Down
59274	TLNRD1	talin rod domain containing 1	-0.647	2.546	Down
53339	BTBD1	BTB domain containing 1	-0.457	5.11	Down
4828	NMB	neuromedin B	-1.491	6.924	Down
26589	MRPL46	mitochondrial ribosomal protein L46	-0.808	2.366	Down
64963	MRPS11	mitochondrial ribosomal protein S11	-0.657	2.346	Down
64782	AEN	apoptosis enhancing nuclease	-1.203	8.252	Down
145864	HAPLN3	hyaluronan and proteoglycan link protein 3	-1.688	8.608	Down
641	BLM	BLM RecQ like helicase	-1.532	17.544	Down
5045	FURIN	furin, paired basic amino acid cleaving enzyme	-2.57	22.71	Down
2242	FES	FES proto-oncogene, tyrosine kinase	-0.741	1.453	Down

55898	UNC45A	unc-45 myosin chaperone A	-0.494	3.168	Down
7190	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene	-1.085	6.408	Down
22856	CHSY1	chondroitin sulfate synthase 1	-1.599	10.082	Down
55829	SELENOS	selenoprotein S	-0.975	6.097	Down
6627	SNRPA1	small nuclear ribonucleoprotein polypeptide A'	-1.772	34.052	Down
80213	TM2D3	TM2 domain containing 3	-1.237	7.249	Down
51728	POLR3K	RNA polymerase III subunit K	-1.029	4.114	Down
79622	SNRNP25	small nuclear ribonucleoprotein U11/U12 subunit 25	-1.551	7.545	Down
8131	NPRL3	NPR3 like, GATOR1 complex subunit	-0.271	1.343	Down
55692	LUC7L	LUC7 like	-1.143	2.277	Down
10573	MRPL28	mitochondrial ribosomal protein L28	-1.552	11.346	Down
4833	NME4	NME/NM23 nucleoside diphosphate kinase 4	-1.235	5.214	Down
26063	DECR2	2,4-dienoyl-CoA reductase 2	-0.797	1.546	Down
84326	METTL26	methyltransferase like 26	-0.881	2.953	Down
84331	MCRIP2	MAPK regulated corepressor interacting protein 2	-1.814	6.823	Down
1.05E+08	LOC105371038	uncharacterized LOC105371038	-1.773	2.373	Down
89941	RHOT2	ras homolog family member T2	-0.692	1.788	Down
10273	STUB1	STIP1 homology and U-box containing protein 1	-0.429	2.27	Down
339123	JMJD8	jumonji domain containing 8	-0.587	4.796	Down
79006	METRN	meteorin, glial cell differentiation regulator	-1.691	5.948	Down
65990	ANTKMT	adenine nucleotide translocase lysine methyltransferase	-2.109	7.755	Down
113000	RPUSD1	RNA pseudouridine synthase domain containing 1	-0.692	5.725	Down
7329	UBE2I	ubiquitin conjugating enzyme E2 I	-0.411	2.437	Down
115939	TSR3	TSR3 ribosome maturation factor	-0.695	4.122	Down
283951	UQCC4	ubiquinol-cytochrome c reductase complex assembly factor 4	-1.464	6.249	Down
9894	TELO2	telomere maintenance 2	-0.952	3.241	Down
90861	JPT2	Jupiter microtubule associated homolog 2	-0.778	3.586	Down
65993	MRPS34	mitochondrial ribosomal protein S34	-0.86	4.681	Down

81889	FAHD1	fumarylacetoacetate hydrolase domain containing 1	-0.576	3.32	Down
51734	MSRB1	methionine sulfoxide reductase B1	-1.239	4.17	Down
10607	TBL3	transducin beta like 3	-1.64	14.055	Down
9143	SYNGR3	synaptogyrin 3	-2.29	7.306	Down
90850	ZNF598	zinc finger protein 598, E3 ubiquitin ligase	-0.556	1.457	Down
283869	NPW	neuropeptide W	-5.328	6.882	Down
9351	NHERF2	NHERF family PDZ scaffold protein 2	-1.099	1.907	Down
84231	TRAF7	TNF receptor associated factor 7	-0.592	4.354	Down
64223	MLST8	MTOR associated protein, LST8 homolog	-1.074	6.082	Down
283871	PGP	phosphoglycolate phosphatase	-0.725	3.286	Down
1632	ECI1	enoyl-CoA delta isomerase 1	-0.773	1.814	Down
10921	RNPS1	RNA binding protein with serine rich domain 1	-0.803	11.774	Down
80178	TEDC2	tubulin epsilon and delta complex 2	-3.819	9.809	Down
57465	TBC1D24	TBC1 domain family member 24	-1.054	3.094	Down
54442	KCTD5	potassium channel tetramerization domain containing 5	-0.539	3.339	Down
6923	ELOB	elongin B	-0.762	1.999	Down
10942	PRSS21	serine protease 21	-2.163	2.342	Down
9088	PKMYT1	protein kinase, membrane associated tyrosine/threonine 1	-1.833	2.333	Down
51330	TNFRSF12A	TNF receptor superfamily member 12A	-1.747	3.763	Down
79228	THOC6	THO complex subunit 6	-1.342	11.468	Down
146439	BICDL2	BICD family like cargo adaptor 2	-1.567	2.601	Down
9235	IL32	interleukin 32	-1.335	5.647	Down
1773	DNASE1	deoxyribonuclease 1	-0.83	4.751	Down
10131	TRAP1	TNF receptor associated protein 1	-1.8	15.3	Down
84662	GLIS2	GLIS family zinc finger 2	-1.073	1.425	Down
51025	PAM16	presequence translocase associated motor 16	-1.423	6.699	Down
9093	DNAJA3	DnaJ heat shock protein family (Hsp40) member A3	-0.558	1.741	Down
79641	ROGDI	rogdi atypical leucine zipper	-0.648	1.709	Down

84656	GLYR1	glyoxylate reductase 1 homolog	-0.303	2.903	Down
56052	ALG1	ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase	-0.657	3.256	Down
196483	EEF2KMT	eukaryotic elongation factor 2 lysine methyltransferase	-0.98	8.647	Down
18	ABAT	4-aminobutyrate aminotransferase	-0.377	1.337	Down
5373	PMM2	phosphomannomutase 2	-1.489	18.144	Down
4682	NUBP1	NUBP iron-sulfur cluster assembly factor 1, cytosolic	-0.503	1.842	Down
1.05E+08	LOC105371082	uncharacterized LOC105371082	-1.779	1.931	Down
8651	SOCS1	suppressor of cytokine signaling 1	-3.558	14.125	Down
116028	RMI2	RecQ mediated genome instability 2	-1.259	1.513	Down
1.05E+08	RSL1D1-DT	RSL1D1 divergent transcript	-0.955	8.747	Down
2935	GSPT1	G1 to S phase transition 1	-0.677	4.863	Down
55313	CPPED1	calcineurin like phosphoesterase domain containing 1	-1.295	6.757	Down
23420	NOMO1	NODAL modulator 1	-0.725	2.998	Down
4363	ABCC1	ATP binding cassette subfamily C member 1	-0.543	1.759	Down
1.03E+08	LOC102723728	nodal modulator 3-like	-0.62	1.619	Down
283820	NOMO2	NODAL modulator 2	-0.586	1.444	Down
123879	DCUN1D3	defective in cullin neddylation 1 domain containing 3	-0.567	1.928	Down
387254	SLC7A5P2	solute carrier family 7 member 5 pseudogene 2	-2.789	10.793	Down
55718	POLR3E	RNA polymerase III subunit E	-0.538	3.25	Down
124454	EARS2	glutamyl-tRNA synthetase 2, mitochondrial	-1.055	9.651	Down
56061	UBFD1	ubiquitin family domain containing 1	-0.53	1.607	Down
4706	NDUFAB1	NADH:ubiquinone oxidoreductase subunit AB1	-1.456	5.986	Down
400512	NSMCE1-DT	NSMCE1 divergent transcript	-3.182	3.598	Down
3566	IL4R	interleukin 4 receptor	-1.274	3.851	Down
50615	IL21R	interleukin 21 receptor	-0.782	2.517	Down
283888	IL21R-AS1	IL21R antisense RNA 1	-0.928	3.309	Down
728689	EIF3CL	eukaryotic translation initiation factor 3 subunit C like	-1.137	5.743	Down
246778	IL27	interleukin 27	-4.523	5.081	Down

8663	EIF3C	eukaryotic translation initiation factor 3 subunit C	-1.135	5.707	Down
1.01E+08	NPIPB9	nuclear pore complex interacting protein family member B9	-0.939	3.264	Down
11273	ATXN2L	ataxin 2 like	-0.64	2.245	Down
7284	TUFM	Tu translation elongation factor, mitochondrial	-1.39	5.677	Down
1.01E+08	MIR4721	microRNA 4721	-1.415	6.521	Down
1E+08	ATP2A1-AS1	ATP2A1 antisense RNA 1	-1.706	1.43	Down
1E+08	SMG1P6	SMG1 pseudogene 6	-0.658	1.414	Down
1.07E+08	BOLA2-SMG1P6	BOLA2-SMG1P6 readthrough	-1.285	5.206	Down
606724	LOC606724	coronin 1A pseudogene	-0.784	2.438	Down
552900	BOLA2	bolA family member 2	-1.498	5.186	Down
79008	SLX1B	SLX1 homolog B, structure-specific endonuclease subunit	-0.729	3.32	Down
1.01E+08	SLX1B-SULT1A4	SLX1B-SULT1A4 readthrough (NMD candidate)	-0.492	1.739	Down
9961	MVP	major vault protein	-0.745	3.401	Down
283899	INO80E	INO80 complex subunit E	-0.456	1.464	Down
8448	DOC2A	double C2 domain alpha	-0.772	2.36	Down
1.13E+08	LOC112694756	uncharaterized LOC112694756	-1.317	6.85	Down
226	ALDOA	aldolase, fructose-bisphosphate A	-1.306	6.857	Down
5531	PPP4C	protein phosphatase 4 catalytic subunit	-0.733	2.13	Down
1.08E+08	CORO1A-AS1	CORO1A antisense RNA 1	-0.535	2.267	Down
11151	CORO1A	coronin 1A	-0.671	2.778	Down
654483	BOLA2B	bolA family member 2B	-1.742	5.403	Down
548593	SLX1A	SLX1 homolog A, structure-specific endonuclease subunit	-0.719	3.567	Down
1.01E+08	SLX1A-SULT1A3	SLX1A-SULT1A3 readthrough (NMD candidate)	-0.479	1.696	Down
1731	SEPTIN1	septin 1	-0.349	1.37	Down
79077	DCTPP1	dCTP pyrophosphatase 1	-2.066	14.408	Down
22928	SEPHS2	selenophosphate synthetase 2	-0.467	1.918	Down
64319	FBRS	fibrosin	-1.064	3.989	Down
6810	STX4	syntaxin 4	-0.55	3.009	Down

79759	ZNF668	zinc finger protein 668	-0.52	1.868	Down
10295	BCKDK	branched chain keto acid dehydrogenase kinase	-1.008	7.337	Down
2521	FUS	FUS RNA binding protein	-1.551	16.913	Down
79798	ARMC5	armadillo repeat containing 5	-0.954	3.956	Down
440359	YBX3P1	Y-box binding protein 3 pseudogene 1	-2.027	1.702	Down
10308	ZNF267	zinc finger protein 267	-1.695	5.611	Down
606551	UBE2MP1	ubiquitin conjugating enzyme E2 M pseudogene 1	-1.337	5.433	Down
79801	SHCBP1	SHC binding and spindle associated 1	-3.001	13.145	Down
23594	ORC6	origin recognition complex subunit 6	-2.473	9.373	Down
388272	C16orf87	chromosome 16 open reading frame 87	-0.85	6.207	Down
84706	GPT2	glutamic--pyruvic transaminase 2	-3.332	10.568	Down
10294	DNAJA2	DnaJ heat shock protein family (Hsp40) member A2	-0.996	8.778	Down
81831	NETO2	neuropilin and tolloid like 2	-2.912	12.925	Down
55027	HEATR3	HEAT repeat containing 3	-0.492	2.855	Down
64127	NOD2	nucleotide binding oligomerization domain containing 2	-1.692	5.48	Down
55239	OGFOD1	2-oxoglutarate and iron dependent oxygenase domain containing 1	-0.431	2.331	Down
4502	MT2A	metallothionein 2A	-3.328	10.136	Down
4500	MT1L	metallothionein 1L, pseudogene	-3.893	3.729	Down
4493	MT1E	metallothionein 1E	-4.499	5.602	Down
4498	MT1JP	metallothionein 1J, pseudogene	-5.122	3.615	Down
4494	MT1F	metallothionein 1F	-1.911	4.83	Down
4495	MT1G	metallothionein 1G	-5.099	10.263	Down
4496	MT1H	metallothionein 1H	-5.856	3.125	Down
4501	MT1X	metallothionein 1X	-2.801	18.113	Down
9688	NUP93	nucleoporin 93	-1.104	7.658	Down
9709	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1	-1.712	22.224	Down
57019	CIAPIN1	cytokine induced apoptosis inhibitor 1	-0.813	2.5	Down
5432	POLR2C	RNA polymerase II subunit C	-0.711	3.188	Down

55715	DOK4	docking protein 4	-0.742	2.645	Down
92922	CCDC102A	coiled-coil domain containing 102A	-1.139	5.319	Down
221188	ADGRG5	adhesion G protein-coupled receptor G5	-2.024	2.629	Down
1.08E+08	LOC107984889	uncharacterized LOC107984889	-2.488	1.492	Down
79650	USB1	U6 snRNA biogenesis phosphodiesterase 1	-0.814	8.863	Down
29105	CFAP20	cilia and flagella associated protein 20	-0.757	3.869	Down
64785	GINS3	GINS complex subunit 3	-1.59	13.011	Down
2806	GOT2	glutamic-oxaloacetic transaminase 2	-1.017	5.934	Down
8883	NAE1	NEDD8 activating enzyme E1 subunit 1	-0.392	1.962	Down
57546	PDP2	pyruvate dehydrogenase phosphatase catalytic subunit 2	-0.82	6.089	Down
6236	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator	-2.105	2.777	Down
51647	CIAO2B	cytosolic iron-sulfur assembly component 2B	-1.489	8.808	Down
283848	CES4A	carboxylesterase 4A	-1.577	1.804	Down
865	CBFB	core-binding factor subunit beta	-0.656	2.221	Down
8996	NOL3	nucleolar protein 3	-1.795	1.691	Down
653319	MATCAP1	microtubule associated tyrosine carboxypeptidase 1	-1.484	1.612	Down
1874	E2F4	E2F transcription factor 4	-0.946	18.283	Down
29100	TMEM208	transmembrane protein 208	-1.488	8.479	Down
29109	FHOD1	formin homology 2 domain containing 1	-0.992	3.714	Down
3291	HSD11B2	hydroxysteroid 11-beta dehydrogenase 2	-5.834	3.955	Down
79567	RIPOR1	RHO family interacting cell polarization regulator 1	-0.661	1.454	Down
65057	ACD	ACD shelterin complex subunit and telomerase recruitment factor	-0.804	6.403	Down
10204	NUTF2	nuclear transport factor 2	-1.531	9.481	Down
5699	PSMB10	proteasome 20S subunit beta 10	-1.299	6.562	Down
54920	DUS2	dihydrouridine synthase 2	-1.115	7.999	Down
54496	PRMT7	protein arginine methyltransferase 7	-0.443	2.967	Down
999	CDH1	cadherin 1	-1.728	3.227	Down
79613	TANGO6	transport and golgi organization 6 homolog	-0.609	4.002	Down

84916	UTP4	UTP4 small subunit processome component	-1.585	10.086	Down
27183	VPS4A	vacuolar protein sorting 4 homolog A	-0.455	2.374	Down
64146	PDF	peptide deformylase, mitochondrial	-0.614	3.086	Down
51388	NIP7	nucleolar pre-rRNA processing protein NIP7	-1.394	10.865	Down
80777	CYB5B	cytochrome b5 type B	-0.608	2.126	Down
10725	NFAT5	nuclear factor of activated T cells 5	-0.927	2.869	Down
1728	NQO1	NAD(P)H quinone dehydrogenase 1	-1.01	2.326	Down
28987	NOB1	NIN1 (RPN12) binding protein 1 homolog	-0.893	5.33	Down
118460	EXOSC6	exosome component 6	-0.476	1.891	Down
16	AARS1	alanyl-tRNA synthetase 1	-0.983	2.989	Down
55308	DDX19A	DEAD-box helicase 19A	-0.45	3.953	Down
23450	SF3B3	splicing factor 3b subunit 3	-0.849	3.62	Down
23035	PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	-0.64	2.055	Down
164	AP1G1	adaptor related protein complex 1 subunit gamma 1	-0.345	1.377	Down
1723	DHODH	dihydroorotate dehydrogenase (quinone)	-1.183	10.141	Down
5713	PSMD7	proteasome 26S subunit, non-ATPase 7	-1.32	16.639	Down
55159	RFWD3	ring finger and WD repeat domain 3	-0.269	1.495	Down
197259	MLKL	mixed lineage kinase domain like pseudokinase	-0.703	3.106	Down
84937	ZNRF1	zinc and ring finger 1	-1.968	5.141	Down
3735	KARS1	lysyl-tRNA synthetase 1	-1.228	8.2	Down
4094	MAF	MAF bZIP transcription factor	-1.738	4.414	Down
1.02E+08	LOC101928230	uncharacterized LOC101928230	-1.951	1.919	Down
1.05E+08	LOC105371356	uncharacterized LOC105371356	-3.051	1.951	Down
55839	CENPN	centromere protein N	-1.555	14.155	Down
1.08E+08	CENPN-AS1	CENPN antisense RNA 1	-1.589	2.043	Down
123775	C16orf46	chromosome 16 open reading frame 46	-1.429	2.962	Down
2653	GCSH	glycine cleavage system protein H	-1.187	4.398	Down
8139	GAN	gigaxonin	-0.933	2.307	Down

10200	MPHOSPH6	M-phase phosphoprotein 6	-1.632	7.011	Down
3281	HSBP1	heat shock factor binding protein 1	-0.625	2.46	Down
51659	GINS2	GINS complex subunit 2	-3.652	15.557	Down
10328	EMC8	ER membrane protein complex subunit 8	-0.696	2.678	Down
3394	IRF8	interferon regulatory factor 8	-2.696	7.486	Down
54758	KLHDC4	kelch domain containing 4	-0.405	2.192	Down
8140	SLC7A5	solute carrier family 7 member 5	-3.876	18.436	Down
4597	MVD	mevalonate diphosphate decarboxylase	-0.998	2.669	Down
348180	CTU2	cytosolic thiouridylase subunit 2	-1.786	24.912	Down
81620	CDT1	chromatin licensing and DNA replication factor 1	-3.252	14.946	Down
353	APRT	adenine phosphoribosyltransferase	-0.862	4.615	Down
5119	CHMP1A	charged multivesicular body protein 1A	-0.326	1.432	Down
9605	VPS9D1	VPS9 domain containing 1	-1.288	7.051	Down
1E+08	VPS9D1-AS1	VPS9D1 antisense RNA 1	-3.433	24.859	Down
10381	TUBB3	tubulin beta 3 class III	-2.356	5.797	Down
54849	DEF8	differentially expressed in FDCP 8 homolog	-0.475	2.364	Down
79007	DBNDD1	dysbindin domain containing 1	-1.21	1.952	Down
2622	GAS8	growth arrest specific 8	-1.122	3.349	Down
1E+08	URAHP	urate (hydroxyiso-) hydrolase, pseudogene	-1.23	2.369	Down
359845	RFLNB	refilin B	-0.462	1.632	Down
79850	TLCD3A	TLC domain containing 3A	-1.41	5.5	Down
50628	GEMIN4	gem nuclear organelle associated protein 4	-0.804	3.026	Down
55178	MRM3	mitochondrial rRNA methyltransferase 3	-0.498	1.923	Down
29928	TIMM22	translocase of inner mitochondrial membrane 22	-0.47	1.568	Down
7531	YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon	-1.494	6.438	Down
4641	MYO1C	myosin IC	-0.766	2.342	Down
5306	PITPNA	phosphatidylinositol transfer protein alpha	-0.612	5.71	Down
84981	MIR22HG	MIR22 host gene	-2.161	11.819	Down

407004	MIR22	microRNA 22	-2.573	3.104	Down
146760	RTN4RL1	reticulon 4 receptor like 1	-1.627	2.733	Down
1801	DPH1	diphthamide biosynthesis 1	-0.711	4.903	Down
124641	OVCA2	OVCA2 serine hydrolase domain containing	-0.952	7.201	Down
3090	HIC1	HIC ZBTB transcriptional repressor 1	-2.616	14.026	Down
63826	SRR	serine racemase	-1.226	12.71	Down
55720	TSR1	TSR1 ribosome maturation factor	-1.703	26.647	Down
1.05E+08	LOC105371490	uncharacterized LOC105371490	-1.412	1.782	Down
23277	CLUH	clustered mitochondria homolog	-1.68	10.809	Down
1497	CTNS	cystinosin, lysosomal cystine transporter	-0.983	8.698	Down
1.05E+08	CTNS-AS1	CTNS antisense RNA 1	-1.04	1.442	Down
1.01E+08	P2RX5-TAX1BP3	P2RX5-TAX1BP3 readthrough (NMD candidate)	-1.137	11.038	Down
83460	EMC6	ER membrane protein complex subunit 6	-0.96	5.426	Down
5026	P2RX5	purinergic receptor P2X 5	-2.897	14.524	Down
83903	HASPIN	histone H3 associated protein kinase	-2.767	7.067	Down
10514	MYBBP1A	MYB binding protein 1a	-1.224	4.772	Down
27043	PELP1	proline, glutamate and leucine rich protein 1	-0.588	2.915	Down
5694	PSMB6	proteasome 20S subunit beta 6	-1.678	21.652	Down
1E+08	C17orf107	chromosome 17 open reading frame 107	-1.94	3.166	Down
8402	SLC25A11	solute carrier family 25 member 11	-0.88	6.605	Down
5216	PFN1	profilin 1	-1.091	6.021	Down
4927	NUP88	nucleoporin 88	-1.104	13.147	Down
84268	RPAIN	RPA interacting protein	-0.848	2.845	Down
708	C1QBP	complement C1q binding protein	-1.514	5.868	Down
56919	DHX33	DEAH-box helicase 33	-0.958	15.943	Down
51009	DERL2	derlin 2	-0.367	1.668	Down
79003	MIS12	MIS12 kinetochore complex component	-0.389	1.487	Down
54478	PIMREG	PICALM interacting mitotic regulator	-4.168	5.198	Down

84817	TXNDC17	thioredoxin domain containing 17	-1.239	5.766	Down
1.01E+08	RNASEK-C17orf49	RNASEK-C17orf49 readthrough	-0.498	2.206	Down
124944	C17orf49	chromosome 17 open reading frame 49	-1.13	4.413	Down
1.01E+08	MIR497HG	mir-497-195 cluster host gene	-1.088	4.362	Down
255877	BCL6B	BCL6B transcription repressor	-4.984	2.985	Down
201232	SLC16A13	solute carrier family 16 member 13	-1.109	4.969	Down
162515	SLC16A11	solute carrier family 16 member 11	-2.176	3.191	Down
37	ACADVL	acyl-CoA dehydrogenase very long chain	-0.828	4.814	Down
23587	ELP5	elongator acetyltransferase complex subunit 5	-1	3.969	Down
1366	CLDN7	claudin 7	-1.335	1.968	Down
1984	EIF5A	eukaryotic translation initiation factor 5A	-2.03	10.502	Down
2874	GPS2	G protein pathway suppressor 2	-0.431	2.061	Down
2256	FGF11	fibroblast growth factor 11	-1.198	2.458	Down
26168	SENP3	SUMO specific peptidase 3	-1.034	7.666	Down
1.01E+08	SENP3-EIF4A1	SENP3-EIF4A1 readthrough (NMD candidate)	-1.818	15.357	Down
1973	EIF4A1	eukaryotic translation initiation factor 4A1	-1.893	15.147	Down
9526	MPDU1	mannose-P-dolichol utilization defect 1	-2.101	28.43	Down
9513	FXR2	FMR1 autosomal homolog 2	-0.563	3.108	Down
7157	TP53	tumor protein p53	-0.923	5.198	Down
55135	WRAP53	WD repeat containing antisense to TP53	-0.384	1.609	Down
23135	KDM6B	lysine demethylase 6B	-0.812	1.686	Down
1.08E+08	LOC107987244	uncharacterized LOC107987244	-0.795	1.509	Down
92162	TMEM88	transmembrane protein 88	-4.191	5.77	Down
124637	CYB5D1	cytochrome b5 domain containing 1	-0.411	2.496	Down
116840	CNTROB	centrobin, centriole duplication and spindle assembly protein	-0.69	1.779	Down
5198	PFAS	phosphoribosylformylglycinamidine synthase	-2.159	25.242	Down
399512	SLC25A35	solute carrier family 25 member 35	-0.582	4.293	Down
29098	RANGRF	RAN guanine nucleotide release factor	-0.708	5.34	Down

146850	PIK3R6	phosphoinositide-3-kinase regulatory subunit 6	-1.424	2.728	Down
6416	MAP2K4	mitogen-activated protein kinase kinase 4	-0.334	1.325	Down
60528	ELAC2	elaC ribonuclease Z 2	-0.584	7.916	Down
201161	CENPV	centromere protein V	-2.586	12.926	Down
7314	UBB	ubiquitin B	-1.388	9.144	Down
201164	PLD6	phospholipase D family member 6	-0.866	3.996	Down
8533	COPS3	COP9 signalosome subunit 3	-0.841	2.363	Down
10400	PEMT	phosphatidylethanolamine N-methyltransferase	-1.02	5.505	Down
6720	SREBF1	sterol regulatory element binding transcription factor 1	-1.63	6.811	Down
91647	ATPAF2	ATP synthase mitochondrial F1 complex assembly factor 2	-0.543	1.763	Down
1819	DRG2	developmentally regulated GTP binding protein 2	-0.428	2.451	Down
51030	TVP23B	trans-golgi network vesicle protein 23 homolog B	-0.524	1.932	Down
644815	FAM83G	family with sequence similarity 83 member G	-1.048	2.048	Down
25979	DHRS7B	dehydrogenase/reductase 7B	-1.342	5.487	Down
5606	MAP2K3	mitogen-activated protein kinase kinase 3	-1.209	16.583	Down
339263	LINC02693	long intergenic non-protein coding RNA 2693	-0.729	2.849	Down
23666	UBBP4	ubiquitin B pseudogene 4	-1.238	4.892	Down
8844	KSR1	kinase suppressor of ras 1	-1.83	7.116	Down
3965	LGALS9	galectin 9	-1.282	1.979	Down
27346	TMEM97	transmembrane protein 97	-1.15	3.679	Down
7126	TNFAIP1	TNF alpha induced protein 1	-0.487	2.528	Down
26073	POLDIP2	DNA polymerase delta interacting protein 2	-1.042	10.464	Down
9094	UNC119	unc-119 lipid binding chaperone	-0.596	2.721	Down
10615	SPAG5	sperm associated antigen 5	-1.176	1.996	Down
116238	TLCD1	TLC domain containing 1	-0.742	1.759	Down
9618	TRAF4	TNF receptor associated factor 4	-4.038	30.603	Down
26284	ERAL1	Era like 12S mitochondrial rRNA chaperone 1	-1.117	9.34	Down
90313	TP53I13	tumor protein p53 inducible protein 13	-0.558	1.713	Down

124930	ANKRD13B	ankyrin repeat domain 13B	-2.664	7.292	Down
84940	CORO6	coronin 6	-1.646	1.928	Down
9527	GOSR1	golgi SNAP receptor complex member 1	-0.383	1.653	Down
79915	ATAD5	ATPase family AAA domain containing 5	-1.501	2.209	Down
55352	COPRS	coordinator of PRMT5 and differentiation stimulator	-2.229	29.444	Down
55813	UTP6	UTP6 small subunit processome component	-1.4	10.985	Down
23512	SUZ12	SUZ12 polycomb repressive complex 2 subunit	-0.384	1.98	Down
64149	C17orf75	chromosome 17 open reading frame 75	-0.645	5.367	Down
693217	MIR632	microRNA 632	-1.423	10.672	Down
7756	ZNF207	zinc finger protein 207	-1.234	18.066	Down
5717	PSMD11	proteasome 26S subunit, non-ATPase 11	-1.652	50.322	Down
6347	CCL2	C-C motif chemokine ligand 2	-1.78	2.297	Down
3980	LIG3	DNA ligase 3	-0.449	2.434	Down
54475	NLE1	notchless homolog 1	-0.892	8.053	Down
91607	SLFN11	schlafen family member 11	-0.481	1.493	Down
163	AP2B1	adaptor related protein complex 2 subunit beta 1	-0.333	1.727	Down
1.03E+08	CCL3-AS1	CCL3 antisense RNA 1	-3.841	2.765	Down
6348	CCL3	C-C motif chemokine ligand 3	-5.163	4.806	Down
6351	CCL4	C-C motif chemokine ligand 4	-5.688	21.359	Down
9560	CCL4L2	C-C motif chemokine ligand 4 like 2	-4.804	6.541	Down
1.05E+08	LOC105371749	uncharacterized LOC105371749	-4.212	4.465	Down
80179	MYO19	myosin XIX	-1.198	17.626	Down
284098	PIGW	phosphatidylinositol glycan anchor biosynthesis class W	-1.975	18.434	Down
79154	DHRS11	dehydrogenase/reductase 11	-0.725	1.459	Down
26574	AATF	apoptosis antagonizing transcription factor	-0.629	2.879	Down
31	ACACA	acetyl-CoA carboxylase alpha	-1.542	5.684	Down
11072	DUSP14	dual specificity phosphatase 14	-0.819	3.544	Down
11056	DDX52	DExD-box helicase 52	-0.635	6.838	Down

1E+08	EPOP	elongin BC and polycomb repressive complex 2 associated protein	-4.298	12.565	Down
1.05E+08	LOC105371763	uncharacterized LOC105371763	-1.05	3.324	Down
284106	CISD3	CDGSH iron sulfur domain 3	-1.803	12.603	Down
7703	PCGF2	polycomb group ring finger 2	-1.503	4.955	Down
5691	PSMB3	proteasome 20S subunit beta 3	-1.78	9.441	Down
54883	CWC25	CWC25 spliceosome associated protein homolog	-0.924	6.675	Down
84299	MIEN1	migration and invasion enhancer 1	-0.989	3.702	Down
2886	GRB7	growth factor receptor bound protein 7	-5.021	2.502	Down
124626	ZPBP2	zona pellucida binding protein 2	-2.621	1.533	Down
284110	GSDMA	gasdermin A	-1.87	1.302	Down
5709	PSMD3	proteasome 26S subunit, non-ATPase 3	-1.748	27.746	Down
9862	MED24	mediator complex subunit 24	-0.775	6.138	Down
990	CDC6	cell division cycle 6	-2.843	8.67	Down
125111	GJD3	gap junction protein delta 3	-1.059	1.36	Down
3487	IGFBP4	insulin like growth factor binding protein 4	-1.169	1.582	Down
84951	TNS4	tensin 4	-3.497	8.669	Down
10209	EIF1	eukaryotic translation initiation factor 1	-0.66	2.311	Down
115024	NT5C3B	5'-nucleotidase, cytosolic IIIB	-1.006	2.453	Down
55175	KLHL11	kelch like family member 11	-0.624	2.799	Down
47	ACLY	ATP citrate lyase	-0.953	15.305	Down
1267	CNP	2',3'-cyclic nucleotide 3' phosphodiesterase	-0.749	2.508	Down
7266	DNAJC7	DnaJ heat shock protein family (Hsp40) member C7	-0.782	12.694	Down
28511	NKIRAS2	NFKB inhibitor interacting Ras like 2	-0.455	2.469	Down
2648	KAT2A	lysine acetyltransferase 2A	-1.008	9.34	Down
23415	KCNH4	potassium voltage-gated channel subfamily H member 4	-3.879	5.221	Down
6776	STAT5A	signal transducer and activator of transcription 5A	-0.671	4.902	Down
6774	STAT3	signal transducer and activator of transcription 3	-1.212	9.026	Down
535	ATP6V0A1	ATPase H+ transporting V0 subunit a1	-0.678	4.069	Down

80347	COASY	Coenzyme A synthase	-0.544	6.694	Down
6945	MLX	MAX dimerization protein MLX	-0.574	2.351	Down
29893	PSMC3IP	PSMC3 interacting protein	-0.619	1.638	Down
7283	TUBG1	tubulin gamma 1	-2.119	20.045	Down
79990	PLEKHH3	pleckstrin homology, MyTH4 and FERM domain containing H3	-2.253	1.984	Down
8506	CNTNAP1	contactin associated protein 1	-1.258	4.081	Down
84313	VPS25	vacuolar protein sorting 25 homolog	-0.803	4.348	Down
10197	PSME3	proteasome activator subunit 3	-1.418	11.271	Down
1.01E+08	PTGES3L-AARSD1	PTGES3L-AARSD1 readthrough	-1.29	4.508	Down
80755	AARSD1	alanyl-tRNA synthetase domain containing 1	-1.295	4.477	Down
3430	IFI35	interferon induced protein 35	-1.866	6.237	Down
113277	TMEM106A	transmembrane protein 106A	-0.507	1.635	Down
124801	LSM12	LSM12 homolog	-1.05	17.975	Down
92579	G6PC3	glucose-6-phosphatase catalytic subunit 3	-1.032	5.929	Down
78995	HROB	homologous recombination factor with OB-fold	-1.134	1.448	Down
56970	ATXN7L3	ataxin 7 like 3	-0.319	1.459	Down
51629	SLC25A39	solute carrier family 25 member 39	-1.45	19.742	Down
124808	CCDC43	coiled-coil domain containing 43	-0.603	2.885	Down
9343	EFTUD2	elongation factor Tu GTP binding domain containing 2	-1.06	6.095	Down
4836	NMT1	N-myristoyltransferase 1	-0.288	3.037	Down
9020	MAP3K14	mitogen-activated protein kinase kinase kinase 14	-1.184	1.526	Down
9570	GOSR2	golgi SNAP receptor complex member 2	-0.642	4.279	Down
996	CDC27	cell division cycle 27	-0.295	1.911	Down
9520	NPEPPS	aminopeptidase puromycin sensitive	-0.425	3.862	Down
1.12E+08	KPNB1-DT	KPNB1 divergent transcript	-0.753	7.324	Down
3837	KPNB1	karyopherin subunit beta 1	-1.1	5.713	Down
9755	TBKBP1	TBK1 binding protein 1	-2.725	8.238	Down
30009	TBX21	T-box transcription factor 21	-3.949	31.85	Down

55163	PNPO	pyridoxamine 5'-phosphate oxidase	-1.23	10.598	Down
29916	SNX11	sorting nexin 11	-1.217	7.083	Down
3219	HOXB9	homeobox B9	-4.603	3.681	Down
10241	CALCOCO2	calcium binding and coiled-coil domain 2	-0.403	1.623	Down
516	ATP5MC1	ATP synthase membrane subunit c locus 1	-1.796	7.726	Down
65264	UBE2Z	ubiquitin conjugating enzyme E2 Z	-0.815	4.115	Down
11267	SNF8	SNF8 subunit of ESCRT-II	-1.041	10.051	Down
2793	GNGT2	G protein subunit gamma transducin 2	-1.982	15.169	Down
51225	ABI3	ABI family member 3	-1.395	8.592	Down
5245	PHB1	prohibitin 1	-2.06	15.598	Down
10237	SLC35B1	solute carrier family 35 member B1	-1.676	21.763	Down
51264	MRPL27	mitochondrial ribosomal protein L27	-1.325	7.357	Down
146956	EME1	essential meiotic structure-specific endonuclease 1	-1.425	7.577	Down
55379	LRRC59	leucine rich repeat containing 59	-1.606	13.434	Down
91369	ANKRD40	ankyrin repeat domain 40	-0.519	2.428	Down
654364	NME1-NME2	NME1-NME2 readthrough	-2.147	21.341	Down
4830	NME1	NME/NM23 nucleoside diphosphate kinase 1	-3.871	44.533	Down
4831	NME2	NME/NM23 nucleoside diphosphate kinase 2	-1.766	11.594	Down
51096	UTP18	UTP18 small subunit processome component	-0.522	1.747	Down
23531	MMD	monocyte to macrophage differentiation associated	-0.882	1.888	Down
58488	PCTP	phosphatidylcholine transfer protein	-0.704	2.23	Down
8526	DGKE	diacylglycerol kinase epsilon	-0.914	5.733	Down
7706	TRIM25	tripartite motif containing 25	-1.241	5.701	Down
1.01E+08	MIR3614	microRNA 3614	-1.481	3.473	Down
51649	MRPS23	mitochondrial ribosomal protein S23	-1.046	6.665	Down
6426	SRSF1	serine and arginine rich splicing factor 1	-1.834	33.297	Down
124535	HSF5	heat shock transcription factor 5	-1.226	7.513	Down
5889	RAD51C	RAD51 paralog C	-0.969	2.854	Down

55181	SMG8	SMG8 nonsense mediated mRNA decay factor	-0.424	1.69	Down
1213	CLTC	clathrin heavy chain	-0.82	4.252	Down
51651	PTRH2	peptidyl-tRNA hydrolase 2	-0.901	4.395	Down
81671	VMP1	vacuole membrane protein 1	-0.547	1.627	Down
339175	METTL2A	methyltransferase 2A, methylcytidine	-1.219	11.797	Down
1.08E+08	LOC107985020	uncharacterized LOC107985020	-1.926	1.508	Down
9902	MRC2	mannose receptor C type 2	-1.762	4.278	Down
51204	TACO1	translational activator of cytochrome c oxidase I	-0.626	2.433	Down
57003	CCDC47	coiled-coil domain containing 47	-0.858	8.639	Down
117246	FTSJ3	FtsJ RNA 2'-O-methyltransferase 3	-1.277	15.49	Down
5705	PSMC5	proteasome 26S subunit, ATPase 5	-1.1	8.946	Down
1655	DDX5	DEAD-box helicase 5	-0.975	23.761	Down
8787	RGS9	regulator of G protein signaling 9	-1.317	2.788	Down
201134	CEP112	centrosomal protein 112	-1.4	1.477	Down
5718	PSMD12	proteasome 26S subunit, non-ATPase 12	-1.428	11.477	Down
25926	NOL11	nucleolar protein 11	-0.723	3.503	Down
284018	C17orf58	chromosome 17 open reading frame 58	-2.235	7.398	Down
3838	KPNA2	karyopherin subunit alpha 2	-2.126	20.264	Down
55062	WIPI1	WD repeat domain, phosphoinositide interacting 1	-0.971	4.367	Down
26151	NAT9	N-acetyltransferase 9 (putative)	-0.398	1.822	Down
3396	MRPL58	mitochondrial ribosomal protein L58	-0.748	1.585	Down
30833	NT5C	5', 3'-nucleotidase, cytosolic	-1.31	6.862	Down
1.08E+08	LOC107985034	uncharacterized LOC107985034	-1.264	12.067	Down
51155	JPT1	Jupiter microtubule associated homolog 1	-1.021	7.606	Down
79902	NUP85	nucleoporin 85	-0.534	3.655	Down
51081	MRPS7	mitochondrial ribosomal protein S7	-1.422	6.795	Down
1E+08	MIF4GD-DT	MIF4GD divergent transcript	-0.738	1.606	Down
60386	SLC25A19	solute carrier family 25 member 19	-1.369	6.28	Down

57513	CASKIN2	CASK interacting protein 2	-1.875	1.609	Down
2584	GALK1	galactokinase 1	-0.969	2.45	Down
3021	H3-3B	H3.3 histone B	-0.995	6.528	Down
64978	MRPL38	mitochondrial ribosomal protein L38	-0.514	2.983	Down
6730	SRP68	signal recognition particle 68	-0.447	2.981	Down
8811	GALR2	galanin receptor 2	-4.71	20.177	Down
8877	SPHK1	sphingosine kinase 1	-2.09	4.28	Down
1.01E+08	SNHG16	small nucleolar RNA host gene 16	-0.715	1.735	Down
23210	JMJD6	jumonji domain containing 6, arginine demethylase and lysine hydroxylase	-0.816	3.708	Down
6427	SRSF2	serine and arginine rich splicing factor 2	-2.057	25.073	Down
693221	MIR636	microRNA 636	-2.453	13.758	Down
79157	MFSD11	major facilitator superfamily domain containing 11	-1.697	15.388	Down
6397	SEC14L1	SEC14 like lipid binding 1	-0.424	2.053	Down
9144	SYNGR2	synaptogyrin 2	-1.215	7.339	Down
7083	TK1	thymidine kinase 1	-1.717	4.087	Down
125061	AFMID	arylformamidase	-1.534	2.961	Down
332	BIRC5	baculoviral IAP repeat containing 5	-2.407	4.332	Down
1.05E+08	LOC105371912	uncharacterized LOC105371912	-2.185	2.731	Down
9021	SOCS3	suppressor of cytokine signaling 3	-3.347	10.049	Down
1.02E+08	SOCS3-DT	SOCS3 divergent transcript	-2.932	1.709	Down
9775	EIF4A3	eukaryotic translation initiation factor 4A3	-1.272	9.659	Down
57674	RNF213	ring finger protein 213	-1.222	2.687	Down
1E+08	RNF213-AS1	RNF213 antisense RNA 1	-1.219	2.205	Down
4884	NPTX1	neuronal pentraxin 1	-1.291	1.404	Down
284184	NDUFAF8	NADH:ubiquinone oxidoreductase complex assembly factor 8	-1.389	7.321	Down
71	ACTG1	actin gamma 1	-1.647	8.146	Down
80233	FAAP100	FA core complex associated protein 100	-0.891	4.574	Down
55666	NPLOC4	NPL4 homolog, ubiquitin recognition factor	-0.813	8.663	Down

339230	CCDC137	coiled-coil domain containing 137	-0.614	1.413	Down
6182	MRPL12	mitochondrial ribosomal protein L12	-2.434	21.79	Down
1468	SLC25A10	solute carrier family 25 member 10	-2.677	39.793	Down
348262	MCRIP1	MAPK regulated corepressor interacting protein 1	-0.759	3.907	Down
5034	P4HB	prolyl 4-hydroxylase subunit beta	-0.532	1.676	Down
396	ARHGDIA	Rho GDP dissociation inhibitor alpha	-1.005	8.784	Down
10189	ALYREF	Aly/REF export factor	-1.88	15.779	Down
51529	ANAPC11	anaphase promoting complex subunit 11	-1.07	4.074	Down
4097	MAFG	MAF bZIP transcription factor G	-1.961	22.884	Down
92659	MILIP	MYC inducible lncRNA inactivating p53	-3.505	3.038	Down
5831	PYCR1	pyrroline-5-carboxylate reductase 1	-5.126	38.387	Down
79058	ASPSCR1	ASPSCR1 tether for SLC2A4, UBX domain containing	-0.382	1.417	Down
201254	CENPX	centromere protein X	-1.491	10.125	Down
5881	RAC3	Rac family small GTPase 3	-1.211	1.308	Down
51181	DCXR	dicarbonyl and L-xylulose reductase	-0.779	3.045	Down
2873	GPS1	G protein pathway suppressor 1	-0.746	5.787	Down
64118	DUS1L	dihydrouridine synthase 1 like	-1.172	12.405	Down
2194	FASN	fatty acid synthase	-2.133	10.019	Down
9123	SLC16A3	solute carrier family 16 member 3	-1.501	7.569	Down
924	CD7	CD7 molecule	-0.936	3.689	Down
6398	SECTM1	secreted and transmembrane 1	-2.546	11.08	Down
400629	TEX19	testis expressed 19	-5.905	5.383	Down
79701	OGFOD3	2-oxoglutarate and iron dependent oxygenase domain containing 3	-0.464	1.65	Down
79415	CYBC1	cytochrome b-245 chaperone 1	-0.639	1.666	Down
26502	NARF	nuclear prelamin A recognition factor	-1.3	3.762	Down
3607	FOXK2	forkhead box K2	-0.389	1.376	Down
146712	B3GNTL1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase like 1	-0.76	2.324	Down
284207	METRNL	meteorin like, glial cell differentiation regulator	-1.116	3.769	Down

403340	MGC70870	C-terminal binding protein 2 pseudogene	-0.743	2.524	Down
9097	USP14	ubiquitin specific peptidase 14	-0.991	8.508	Down
9984	THOC1	THO complex subunit 1	-0.647	5.884	Down
494514	TYMSOS	TYMS opposite strand RNA	-2.808	3.623	Down
7298	TYMS	thymidylate synthetase	-2.113	8.245	Down
55556	ENOSF1	enolase superfamily member 1	-0.992	2.938	Down
7525	YES1	YES proto-oncogene 1, Src family tyrosine kinase	-1.03	3.193	Down
9663	LPIN2	lipin 2	-1.025	15.65	Down
727896	CHORDC1P4	CHORDC1 pseudogene 4	-1.676	10.994	Down
4729	NDUFV2	NADH:ubiquinone oxidoreductase core subunit V2	-1.788	15.297	Down
9989	PPP4R1	protein phosphatase 4 regulatory subunit 1	-0.602	4.182	Down
9218	VAPA	VAMP associated protein A	-0.649	2.601	Down
8774	NAPG	NSF attachment protein gamma	-0.692	4.768	Down
3613	IMPA2	inositol monophosphatase 2	-0.832	2.324	Down
10939	AFG3L2	AFG3 like matrix AAA peptidase subunit 2	-0.624	6.863	Down
1.08E+08	LOC107985154	uncharacterized LOC107985154	-0.551	1.376	Down
56907	SPIRE1	spire type actin nucleation factor 1	-1.771	11.673	Down
5771	PTPN2	protein tyrosine phosphatase non-receptor type 2	-0.455	1.551	Down
81929	SEH1L	SEH1 like nucleoporin	-1.64	16.741	Down
125228	FAM210A	family with sequence similarity 210 member A	-0.679	4.056	Down
6632	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide	-1.616	15.288	Down
5932	RBBP8	RB binding protein 8, endonuclease	-2.915	11.902	Down
85019	TMEM241	transmembrane protein 241	-2.146	21.789	Down
8780	RIOK3	RIO kinase 3	-0.295	1.416	Down
29919	RMC1	regulator of MON1-CCZ1	-0.453	2.627	Down
6875	TAF4B	TATA-box binding protein associated factor 4b	-1.812	7.5	Down
1.08E+08	LOC107985139		-0.604	3.755	Down
7572	ZNF24	zinc finger protein 24	-0.401	1.421	Down

125476	INO80C	INO80 complex subunit C	-0.665	2.205	Down
25800	SLC39A6	solute carrier family 39 member 6	-0.312	2.169	Down
1.02E+08	SETBP1-DT	SETBP1 divergent transcript	-5.411	3.568	Down
26040	SETBP1	SET binding protein 1	-2.737	2.213	Down
147339	C18orf25	chromosome 18 open reading frame 25	-0.491	1.826	Down
10449	ACAA2	acetyl-CoA acyltransferase 2	-0.552	5.725	Down
4200	ME2	malic enzyme 2	-1.098	15.814	Down
8932	MBD2	methyl-CpG binding domain protein 2	-0.657	4.421	Down
4677	NARS1	asparaginyl-tRNA synthetase 1	-0.889	2.14	Down
1.02E+08	MALT1-AS1	MALT1 antisense RNA 1	-0.738	1.675	Down
90701	SEC11C	SEC11 homolog C, signal peptidase complex subunit	-1.319	4.37	Down
3998	LMAN1	lectin, mannose binding 1	-1.386	23.047	Down
5366	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	-3.404	24.068	Down
23239	PHLPP1	PH domain and leucine rich repeat protein phosphatase 1	-0.738	1.767	Down
10666	CD226	CD226 molecule	-1.395	8.201	Down
29090	TIMM21	translocase of inner mitochondrial membrane 21	-0.898	6.201	Down
1528	CYB5A	cytochrome b5 type A	-1.333	6.522	Down
55748	CNDP2	carnosine dipeptidase 2	-0.36	2.31	Down
26251	KCNG2	potassium voltage-gated channel modifier subfamily G member 2	-0.498	1.527	Down
80148	SLC66A2	solute carrier family 66 member 2	-0.527	2.473	Down
10907	TXNL4A	thioredoxin like 4A	-0.982	6.787	Down
79863	RBFA	ribosome binding factor A	-0.705	3.176	Down
22850	ADNP2	ADNP homeobox 2	-0.742	6.053	Down
54531	MIER2	MIER family member 2	-0.562	2.627	Down
682	BSG	basigin (Ok blood group)	-0.578	4.104	Down
55658	RNF126	ring finger protein 126	-0.705	3.654	Down
10272	FSTL3	follistatin like 3	-1.029	1.877	Down
5725	PTBP1	polypyrimidine tract binding protein 1	-0.867	6.795	Down

79948	PLPPR3	phospholipid phosphatase related 3	-0.819	5.791	Down
84634	KISS1R	KISS1 receptor	-1.183	2.098	Down
57418	WDR18	WD repeat domain 18	-1.796	8.922	Down
5434	POLR2E	RNA polymerase II, I and III subunit E	-1.021	6.107	Down
22904	SBNO2	strawberry notch homolog 2	-1.037	1.841	Down
513	ATP5F1D	ATP synthase F1 subunit delta	-0.64	1.458	Down
55009	FAM174C	family with sequence similarity 174 member C	-0.654	1.425	Down
84939	PWWP3A	PWWP domain containing 3A, DNA repair factor	-0.596	1.521	Down
374291	NDUFS7	NADH:ubiquinone oxidoreductase core subunit S7	-0.891	3.974	Down
26528	DAZAP1	DAZ associated protein 1	-1.101	8.192	Down
53615	MBD3	methyl-CpG binding domain protein 3	-0.832	7.906	Down
113178	SCAMP4	secretory carrier membrane protein 4	-0.597	3.534	Down
113179	ADAT3	adenosine deaminase tRNA specific 3	-1.13	5.608	Down
113177	IZUMO4	IZUMO family member 4	-2.209	7.337	Down
84444	DOT1L	DOT1 like histone lysine methyltransferase	-0.824	1.456	Down
55111	PLEKHJ1	pleckstrin homology domain containing J1	-0.55	3.024	Down
4946	OAZ1	ornithine decarboxylase antizyme 1	-0.791	2.741	Down
51690	LSM7	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated	-1.13	5.499	Down
26517	TIMM13	translocase of inner mitochondrial membrane 13	-1.691	10.166	Down
84823	LMNB2	lamin B2	-1.575	9.251	Down
4616	GADD45B	growth arrest and DNA damage inducible beta	-1.724	7.354	Down
29985	SLC39A3	solute carrier family 39 member 3	-0.667	2.529	Down
7064	THOP1	thimet oligopeptidase 1	-1.744	15.146	Down
2769	GNA15	G protein subunit alpha 15	-2.287	3.847	Down
1.01E+08	GNA15-DT	GNA15 divergent transcript	-2.343	4.192	Down
56926	NCLN	nicalin	-1.289	11.043	Down
83475	DOHH	deoxyhypusine hydroxylase	-1.66	12.398	Down
1.05E+08	LOC105372245	uncharacterized LOC105372245	-1.881	5.184	Down

9546	APBA3	amyloid beta precursor protein binding family A member 3	-0.448	1.638	Down
4145	MATK	megakaryocyte-associated tyrosine kinase	-1.166	4.757	Down
5605	MAP2K2	mitogen-activated protein kinase kinase 2	-0.428	2.42	Down
51548	SIRT6	sirtuin 6	-1.011	5.914	Down
79187	FSD1	fibronectin type III and SPRY domain containing 1	-4.275	19.538	Down
55620	STAP2	signal transducing adaptor family member 2	-2.508	6.126	Down
84954	MPND	MPN domain containing	-0.762	6.032	Down
6455	SH3GL1	SH3 domain containing GRB2 like 1, endophilin A2	-0.325	1.595	Down
10036	CHAF1A	chromatin assembly factor 1 subunit A	-0.62	1.709	Down
116844	LRG1	leucine rich alpha-2-glycoprotein 1	-1.859	1.708	Down
56005	MYDGF	myeloid derived growth factor	-1.385	7.154	Down
91039	DPP9	dipeptidyl peptidase 9	-0.689	2.624	Down
1E+08	DPP9-AS1	DPP9 antisense RNA 1	-0.558	1.403	Down
55527	FEM1A	fem-1 homolog A	-0.672	2.72	Down
148022	TICAM1	TIR domain containing adaptor molecule 1	-1.472	9.183	Down
10226	PLIN3	perilipin 3	-0.578	2.992	Down
29128	UHRF1	ubiquitin like with PHD and ring finger domains 1	-3.225	6.9	Down
125988	MICOS13	mitochondrial contact site and cristae organizing system subunit 13	-0.998	3.183	Down
9361	LONP1	lon peptidase 1, mitochondrial	-1.265	6.094	Down
163154	PRR22	proline rich 22	-2.182	5.045	Down
56931	DUS3L	dihydrouridine synthase 3 like	-1.128	4.331	Down
4902	NRTN	neurturin	-1.471	1.534	Down
4298	MLLT1	MLLT1 super elongation complex subunit	-0.453	1.443	Down
8192	CLPP	caseinolytic mitochondrial matrix peptidase proteolytic subunit	-0.962	5.013	Down
8570	KHSRP	KH-type splicing regulatory protein	-0.92	7.987	Down
1.01E+08	MIR3940	microRNA 3940	-1.069	5.451	Down
10382	TUBB4A	tubulin beta 4A class IVa	-1.544	4.518	Down
8744	TNFSF9	TNF superfamily member 9	-3.326	9.841	Down

970	CD70	CD70 molecule	-2.598	3.33	Down
8740	TNFSF14	TNF superfamily member 14	-2.223	16.802	Down
7409	VAV1	vav guanine nucleotide exchange factor 1	-0.468	2.905	Down
57192	MCOLN1	mucolipin TRP cation channel 1	-0.522	1.616	Down
6813	STXBP2	syntaxin binding protein 2	-0.545	4.232	Down
388499	LYPLA2P2	LYPLA2 pseudogene 2	-1.014	2.691	Down
404217	CTXN1	cortexin 1	-2.443	2.836	Down
10469	TIMM44	translocase of inner mitochondrial membrane 44	-1.458	11.44	Down
1994	ELAVL1	ELAV like RNA binding protein 1	-0.883	8.524	Down
51293	CD320	CD320 molecule	-1.538	11.978	Down
4701	NDUFA7	NADH:ubiquinone oxidoreductase subunit A7	-1.023	5.312	Down
4670	HNRNPM	heterogeneous nuclear ribonucleoprotein M	-1.068	12.362	Down
54811	ZNF562	zinc finger protein 562	-0.63	3.318	Down
59286	UBL5	ubiquitin like 5	-0.618	1.626	Down
56342	PPAN	peter pan homolog	-1.573	14.804	Down
692312	PPAN-P2RY11	PPAN-P2RY11 readthrough	-1.114	10.395	Down
51073	MRPL4	mitochondrial ribosomal protein L4	-1.86	24.062	Down
3383	ICAM1	intercellular adhesion molecule 1	-2.803	6.688	Down
112812	FDX2	ferredoxin 2	-1.576	7.361	Down
125950	RAVER1	ribonucleoprotein, PTB binding 1	-0.726	4.888	Down
11140	CDC37	cell division cycle 37, HSP90 cochaperone	-1.107	7.761	Down
1E+08	MIR1181	microRNA 1181	-1.156	7.328	Down
9817	KEAP1	kelch like ECH associated protein 1	-0.982	8.862	Down
3609	ILF3	interleukin enhancer binding factor 3	-1.015	4.975	Down
81890	QTRT1	queuine tRNA-ribosyltransferase catalytic subunit 1	-1.887	19.631	Down
11018	TMED1	transmembrane p24 trafficking protein 1	-0.89	4.807	Down
10498	CARM1	coactivator associated arginine methyltransferase 1	-0.993	12.927	Down
78992	YIPF2	Yip1 domain family member 2	-0.621	4.27	Down

6597	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	-0.744	1.45	Down
1.15E+08	LDLR-AS1	LDLR antisense RNA 1	-3.209	6.612	Down
3949	LDLR	low density lipoprotein receptor	-3.478	9.186	Down
57572	DOCK6	dedicator of cytokinesis 6	-1.97	2.861	Down
374882	TMEM205	transmembrane protein 205	-1.082	6.624	Down
64748	PLPPR2	phospholipid phosphatase related 2	-1.553	6.205	Down
126074	SWSAP1	SWIM-type zinc finger 7 associated protein 1	-0.621	1.346	Down
51295	ECSIT	ECSIT signaling integrator	-0.726	2.066	Down
84337	ELOF1	elongation factor 1	-0.398	1.302	Down
664709	HNRNPA1P10	heterogeneous nuclear ribonucleoprotein A1 pseudogene 10	-0.813	3.182	Down
388507	ZNF788P	zinc finger family member 788, pseudogene	-1.723	2.621	Down
30000	TNPO2	transportin 2	-0.829	3.748	Down
439	GET3	guided entry of tail-anchored proteins factor 3, ATPase	-0.957	3.686	Down
29911	HOOK2	hook microtubule tethering protein 2	-0.942	3.472	Down
3726	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit	-2.141	13.326	Down
7001	PRDX2	peroxiredoxin 2	-1.029	3.519	Down
10535	RNASEH2A	ribonuclease H2 subunit A	-0.939	3.528	Down
2639	GCDH	glutaryl-CoA dehydrogenase	-0.727	2.199	Down
2193	FARSA	phenylalanyl-tRNA synthetase subunit alpha	-1.513	17.237	Down
1.06E+08	FARSA-AS1	FARSA antisense RNA 1	-1.589	7.671	Down
811	CALR	calreticulin	-1.543	19.001	Down
5886	RAD23A	RAD23 homolog A, nucleotide excision repair protein	-0.806	6.935	Down
90480	GADD45GIP1	GADD45G interacting protein 1	-1.131	6.562	Down
4784	NFIX	nuclear factor I X	-0.69	1.826	Down
1.05E+08	LOC105372282	uncharacterized LOC105372282	-1.36	7.512	Down
55621	TRMT1	tRNA methyltransferase 1	-1.421	16.592	Down
112939	NACC1	nucleus accumbens associated 1	-1.148	9.966	Down
284454	MIR23AHG	miR-23a/27a/24-2 cluster host gene	-1.529	2.912	Down

9466	IL27RA	interleukin 27 receptor subunit alpha	-0.741	4.841	Down
90378	SAMD1	sterile alpha motif domain containing 1	-0.429	1.549	Down
5566	PRKACA	protein kinase cAMP-activated catalytic subunit alpha	-0.282	1.394	Down
55723	ASF1B	anti-silencing function 1B histone chaperone	-1.194	3.941	Down
10212	DDX39A	DExD-box helicase 39A	-2.256	43.889	Down
4713	NDUFB7	NADH:ubiquinone oxidoreductase subunit B7	-0.951	2.013	Down
58525	WIZ	WIZ zinc finger	-0.883	4.1	Down
64926	RASAL3	RAS protein activator like 3	-0.601	2.255	Down
7171	TPM4	tropomyosin 4	-1.948	7.047	Down
4218	RAB8A	RAB8A, member RAS oncogene family	-0.623	4.759	Down
93323	HAUS8	HAUS augmin like complex subunit 8	-0.431	1.459	Down
2063	NR2F6	nuclear receptor subfamily 2 group F member 6	-0.999	3.093	Down
29086	BABAM1	BRISC and BRCA1 A complex member 1	-0.504	1.493	Down
126549	ANKLE1	ankyrin repeat and LEM domain containing 1	-1.607	3.578	Down
79016	DDA1	DET1 and DDB1 associated 1	-0.593	4.732	Down
684	BST2	bone marrow stromal cell antigen 2	-1.401	6.975	Down
79709	COLGALT1	collagen beta(1-O)galactosyltransferase 1	-0.418	2.461	Down
115098	CCDC124	coiled-coil domain containing 124	-1.77	13.643	Down
5296	PIK3R2	phosphoinositide-3-kinase regulatory subunit 2	-0.381	1.89	Down
84769	MPV17L2	MPV17 mitochondrial inner membrane protein like 2	-1.512	14.882	Down
3727	JUND	JunD proto-oncogene, AP-1 transcription factor subunit	-0.663	2.343	Down
25804	LSM4	LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.658	2.249	Down
170463	SSBP4	single stranded DNA binding protein 4	-1.08	4.754	Down
51477	ISYNA1	inositol-3-phosphate synthase 1	-0.751	3.099	Down
11316	COPE	COPI coat complex subunit epsilon	-0.68	1.984	Down
54555	DDX49	DEAD-box helicase 49	-1.155	10.347	Down
93436	ARMC6	armadillo repeat containing 6	-1.479	14.938	Down
54929	TMEM161A	transmembrane protein 161A	-0.649	2.641	Down

729991	BORCS8	BLOC-1 related complex subunit 8	-1.041	4.436	Down
8625	RFXANK	regulatory factor X associated ankyrin containing protein	-0.689	1.927	Down
126382	NR2C2AP	nuclear receptor 2C2 associated protein	-0.909	6.286	Down
51079	NDUFA13	NADH:ubiquinone oxidoreductase subunit A13	-0.906	2.646	Down
148113	CILP2	cartilage intermediate layer protein 2	-1.57	3.188	Down
57130	ATP13A1	ATPase 13A1	-0.599	1.999	Down
1.05E+08	LOC105372309	uncharacterized LOC105372309	-5.544	3.81	Down
57615	ZNF492	zinc finger protein 492	-1.198	1.992	Down
7386	UQCRFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	-0.712	2.362	Down
10775	POP4	POP4 homolog, ribonuclease P/MRP subunit	-0.788	5.913	Down
83636	C19orf12	chromosome 19 open reading frame 12	-0.75	12.789	Down
898	CCNE1	cyclin E1	-1.872	5.168	Down
9141	PDCD5	programmed cell death 5	-1.357	11.388	Down
390916	NUDT19	nudix hydrolase 19	-0.567	2.837	Down
85415	RHPN2	rhophilin Rho GTPase binding protein 2	-3.703	8.679	Down
1054	CEBPG	CCAAT enhancer binding protein gamma	-0.878	5.261	Down
5184	PEPD	peptidase D	-0.644	3.897	Down
84306	PDCD2L	programmed cell death 2 like	-1.862	8.229	Down
10054	UBA2	ubiquitin like modifier activating enzyme 2	-0.642	4.649	Down
2865	FFAR3	free fatty acid receptor 3	-5.775	8.872	Down
2866	GPR42	G protein-coupled receptor 42	-5.685	5.292	Down
1.01E+08	TMEM147-AS1	TMEM147 antisense RNA 1	-0.849	2.913	Down
10430	TMEM147	transmembrane protein 147	-1.077	4.746	Down
79171	RBM42	RNA binding motif protein 42	-0.776	4.552	Down
27033	ZBTB32	zinc finger and BTB domain containing 32	-4.053	7.857	Down
55851	PSENEN	presenilin enhancer, gamma-secretase subunit	-0.741	4.424	Down
84063	KIRREL2	kirre like nephrin family adhesion molecule 2	-3.087	5.028	Down
84807	NFKBID	NFKB inhibitor delta	-3.73	14.062	Down

84964	ALKBH6	alkB homolog 6	-0.497	2.039	Down
284403	WDR62	WD repeat domain 62	-1.345	1.768	Down
5438	POLR2I	RNA polymerase II subunit I	-0.798	2.979	Down
1155	TBCB	tubulin folding cofactor B	-0.75	2.97	Down
10653	SPINT2	serine peptidase inhibitor, Kunitz type 2	-1.978	13.039	Down
90522	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein	-1.143	8.461	Down
9424	KCNK6	potassium two pore domain channel subfamily K member 6	-0.48	1.679	Down
5714	PSMD8	proteasome 26S subunit, non-ATPase 8	-1.511	13.925	Down
3191	HNRNPL	heterogeneous nuclear ribonucleoprotein L	-0.895	11.588	Down
4793	NFKBIB	NFKB inhibitor beta	-1.605	8.284	Down
643669	CCER2	coiled-coil glutamate rich protein 2	-1.487	4.523	Down
54938	SARS2	seryl-tRNA synthetase 2, mitochondrial	-0.998	5.599	Down
6183	MRPS12	mitochondrial ribosomal protein S12	-1.306	7.282	Down
10298	PAK4	p21 (RAC1) activated kinase 4	-0.752	3.935	Down
55095	SAMD4B	sterile alpha motif domain containing 4B	-0.582	1.5	Down
54623	PAF1	PAF1 homolog, Paf1/RNA polymerase II complex component	-0.557	2.513	Down
64857	PLEKHG2	pleckstrin homology and RhoGEF domain containing G2	-1.072	2.577	Down
6829	SUPT5H	SPT5 homolog, DSIF elongation factor subunit	-0.513	1.96	Down
92609	TIMM50	translocase of inner mitochondrial membrane 50	-1.559	27.861	Down
10683	DLL3	delta like canonical Notch ligand 3	-5.139	3.232	Down
400696	LGALS17A	galectin 14 pseudogene	-4.596	9.3	Down
56891	LGALS14	galectin 14	-5.343	10.732	Down
1178	CLC	Charcot-Leyden crystal galectin	-5.05	5.472	Down
5704	PSMC4	proteasome 26S subunit, ATPase 4	-1.603	21.754	Down
208	AKT2	AKT serine/threonine kinase 2	-0.507	3.628	Down
126526	C19orf47	chromosome 19 open reading frame 47	-0.416	1.569	Down
29950	SERTAD1	SERTA domain containing 1	-1.293	8.44	Down
9253	NUMBL	NUMB like endocytic adaptor protein	-1.54	3.132	Down

80271	ITPKC	inositol-trisphosphate 3-kinase C	-0.737	2.356	Down
284325	ACTMAP	actin maturation protease	-0.826	6.398	Down
6626	SNRPA	small nuclear ribonucleoprotein polypeptide A	-1.758	19.661	Down
56915	EXOSC5	exosome component 5	-1.113	3.573	Down
55101	DMAC2	distal membrane arm assembly component 2	-0.702	8.103	Down
2931	GSK3A	glycogen synthase kinase 3 alpha	-0.55	2.099	Down
2077	ERF	ETS2 repressor factor	-0.761	2.945	Down
5050	PAFAH1B3	platelet activating factor acetylhydrolase 1b catalytic subunit 3	-1.348	7.412	Down
284338	PRR19	proline rich 19	-1.21	4.216	Down
3991	LIPE	lipase E, hormone sensitive type	-0.49	1.679	Down
23474	ETHE1	ETHE1 persulfide dioxygenase	-0.971	3.396	Down
126298	IRGQ	immunity related GTPase Q	-1.745	7.635	Down
199731	CADM4	cell adhesion molecule 4	-1.006	2.168	Down
56006	SMG9	SMG9 nonsense mediated mRNA decay factor	-0.952	3.552	Down
3783	KCNN4	potassium calcium-activated channel subfamily N member 4	-1.61	6.68	Down
602	BCL3	BCL3 transcription coactivator	-2.147	5.07	Down
10452	TOMM40	translocase of outer mitochondrial membrane 40	-2.339	31.34	Down
5971	RELB	RELB proto-oncogene, NF-kB subunit	-1.995	11.243	Down
79760	GEMIN7	gem nuclear organelle associated protein 7	-0.613	1.862	Down
1.05E+08	GEMIN7-AS1	GEMIN7 antisense RNA 1	-0.65	2.03	Down
147700	KLC3	kinesin light chain 3	-1.795	3.049	Down
2068	ERCC2	ERCC excision repair 2, TFIIH core complex helicase subunit	-0.552	2.534	Down
10849	POLR1G	RNA polymerase I subunit G	-1.625	7.688	Down
2067	ERCC1	ERCC excision repair 1, endonuclease non-catalytic subunit	-1.328	16.462	Down
2354	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit	-2.57	2.889	Down
6253	RTN2	reticulon 2	-1.653	3.405	Down
7408	VASP	vasodilator stimulated phosphoprotein	-1.084	9.157	Down
24139	EML2	EMAP like 2	-1.526	9.023	Down

1E+08	EML2-AS1	EML2 antisense RNA 1	-2.553	11.114	Down
1762	DMWD	DM1 locus, WD repeat containing	-0.664	1.96	Down
3171	FOXA3	forkhead box A3	-2.494	2.444	Down
5536	PPP5C	protein phosphatase 5 catalytic subunit	-1.55	27.251	Down
1.05E+08	LOC105372426	uncharacterized LOC105372426	-1.609	7.164	Down
94235	GNG8	G protein subunit gamma 8	-5.537	5.787	Down
147906	DACT3	dishevelled binding antagonist of beta catenin 3	-3.514	8.658	Down
29888	STRN4	striatin 4	-0.562	1.443	Down
79147	FKRP	fukutin related protein	-0.653	1.986	Down
6510	SLC1A5	solute carrier family 1 member 5	-3.404	17.95	Down
10055	SAE1	SUMO1 activating enzyme subunit 1	-1.154	13.906	Down
26093	CCDC9	coiled-coil domain containing 9	-0.866	2.031	Down
255783	INAFM1	InaF motif containing 1	-0.802	2.71	Down
9704	DHX34	DExH-box helicase 34	-0.64	1.327	Down
11133	KPTN	kaptin, actin binding protein	-1.609	11.202	Down
1.01E+08	NAPA-AS1	NAPA antisense RNA 1	-0.578	3.702	Down
8775	NAPA	NSF attachment protein alpha	-0.785	14.151	Down
83743	GRWD1	glutamate rich WD repeat containing 1	-1.379	11.114	Down
56848	SPHK2	sphingosine kinase 2	-0.68	3.06	Down
587	BCAT2	branched chain amino acid transaminase 2	-1.422	14.715	Down
1.05E+08	LOC105372432	uncharacterized LOC105372432	-1.049	2.482	Down
23645	PPP1R15A	protein phosphatase 1 regulatory subunit 15A	-2.259	6.624	Down
4924	NUCB1	nucleobindin 1	-0.625	2.195	Down
581	BAX	BCL2 associated X, apoptosis regulator	-1.003	4.91	Down
2512	FTL	ferritin light chain	-1.15	4.713	Down
10856	RUVBL2	RuvB like AAA ATPase 2	-1.983	20.45	Down
6625	SNRNP70	small nuclear ribonucleoprotein U1 subunit 70	-1.884	8.638	Down
8541	PPFIA3	PTPRF interacting protein alpha 3	-1.305	3.577	Down

55011	PIH1D1	PIH1 domain containing 1	-0.527	1.754	Down
83596	BCL2L12	BCL2 like 12	-0.394	1.307	Down
3276	PRMT1	protein arginine methyltransferase 1	-2.873	32.969	Down
160	AP2A1	adaptor related protein complex 2 subunit alpha 1	-0.344	2.88	Down
53635	PTOV1	PTOV1 extended AT-hook containing adaptor protein	-0.457	1.687	Down
11284	PNKP	polynucleotide kinase 3'-phosphatase	-0.838	4.928	Down
259307	IL4I1	interleukin 4 induced 1	-2.835	11.864	Down
23636	NUP62	nucleoporin 62	-1.555	19.325	Down
22809	ATF5	activating transcription factor 5	-1.67	5.743	Down
1.01E+08	MIR4751	microRNA 4751	-1.483	3.467	Down
3748	KCNC3	potassium voltage-gated channel subfamily C member 3	-1.791	2.346	Down
9476	NAPSA	napsin A aspartic peptidase	-2.968	3.458	Down
7376	NR1H2	nuclear receptor subfamily 1 group H member 2	-0.65	3.187	Down
5424	POLD1	DNA polymerase delta 1, catalytic subunit	-1.373	11.492	Down
284361	EMC10	ER membrane protein complex subunit 10	-0.386	1.725	Down
126119	JOSD2	Josephin domain containing 2	-0.85	3.44	Down
84798	C19orf48	multidrug resistance-related protein	-0.588	2.782	Down
90353	CTU1	cytosolic thiouridylase subunit 1	-0.931	2.928	Down
147645	VSIG10L	V-set and immunoglobulin domain containing 10 like	-2.605	5.467	Down
80110	ZNF614	zinc finger protein 614	-0.6	2.487	Down
5518	PPP2R1A	protein phosphatase 2 scaffold subunit Aalpha	-0.737	6.436	Down
26121	PRPF31	pre-mRNA processing factor 31	-0.97	15.49	Down
4849	CNOT3	CCR4-NOT transcription complex subunit 3	-0.601	2.114	Down
22870	PPP6R1	protein phosphatase 6 regulatory subunit 1	-0.597	2.96	Down
23640	HSPBP1	HSPA (Hsp70) binding protein 1	-1.681	17.184	Down
84446	BRSK1	BR serine/threonine kinase 1	-2.574	7.559	Down
27338	UBE2S	ubiquitin conjugating enzyme E2 S	-2.175	19.221	Down
79763	ISOC2	isochorismatase domain containing 2	-1.857	7.808	Down

57106	NAT14	N-acetyltransferase 14 (putative)	-0.645	1.749	Down
29903	CCDC106	coiled-coil domain containing 106	-0.654	1.419	Down
11338	U2AF2	U2 small nuclear RNA auxiliary factor 2	-0.891	8.639	Down
388567	ZNF749	zinc finger protein 749	-0.357	1.411	Down
10155	TRIM28	tripartite motif containing 28	-0.514	1.872	Down
27243	CHMP2A	charged multivesicular body protein 2A	-0.834	3.835	Down
9040	UBE2M	ubiquitin conjugating enzyme E2 M	-1.339	7.477	Down
65996	CENPBD2P	CENPB DNA-binding domains containing 2, pseudogene	-0.461	1.732	Down
1.02E+08	LOC101929937	serine/arginine repetitive matrix protein 2-like	-1.622	1.448	Down
80023	NRSN2	neurensin 2	-1.965	7.974	Down
57761	TRIB3	tribbles pseudokinase 3	-1.612	5.914	Down
10616	RBCK1	RANBP2-type and C3HC4-type zinc finger containing 1	-0.591	2.845	Down
1457	CSNK2A1	casein kinase 2 alpha 1	-0.726	5.033	Down
140809	SRXN1	sulfiredoxin 1	-1.326	3.241	Down
1.01E+08	FKBP1A-SDCBP2	FKBP1A-SDCBP2 readthrough (NMD candidate)	-1.21	9.475	Down
2280	FKBP1A	FKBP prolyl isomerase 1A	-1.23	10.275	Down
55968	NSFL1C	NSFL1 cofactor	-0.995	6.65	Down
6628	SNRPB	small nuclear ribonucleoprotein polypeptides B and B1	-1.482	11.248	Down
10528	NOP56	NOP56 ribonucleoprotein	-1.086	14.821	Down
1E+08	MIR1292	microRNA 1292	-1.01	2.613	Down
692201	SNORD86	small nucleolar RNA, C/D box 86	-2.474	4.17	Down
3420	IDH3B	isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit beta	-0.946	9.95	Down
56265	CPXM1	carboxypeptidase X, M14 family member 1	-1.349	1.824	Down
64601	VPS16	VPS16 core subunit of CORVET and HOPS complexes	-0.297	1.448	Down
64949	MRPS26	mitochondrial ribosomal protein S26	-0.93	2.323	Down
60493	FASTKD5	FAST kinase domains 5	-0.483	2.971	Down
3704	ITPA	inosine triphosphatase	-1.081	5.792	Down
54976	C20orf27	chromosome 20 open reading frame 27	-1.263	8.841	Down

11237	RNF24	ring finger protein 24	-0.665	3.914	Down
5621	PRNP	prion protein	-0.94	3.275	Down
5111	PCNA	proliferating cell nuclear antigen	-1.105	5.976	Down
1E+08	PCNA-AS1	PCNA antisense RNA 1	-1.264	6.162	Down
51605	TRMT6	tRNA methyltransferase 6 non-catalytic subunit	-1.154	11.983	Down
84515	MCM8	minichromosome maintenance 8 homologous recombination repair factor	-1.121	2.21	Down
54675	CRLS1	cardiolipin synthase 1	-0.805	3.575	Down
51575	ESF1	ESF1 nucleolar pre-rRNA processing protein homolog	-1.059	8.076	Down
79133	NDUFAF5	NADH:ubiquinone oxidoreductase complex assembly factor 5	-0.914	3.546	Down
6629	SNRPB2	small nuclear ribonucleoprotein polypeptide B2	-1.119	7.937	Down
27131	SNX5	sorting nexin 5	-0.463	2.794	Down
692086	SNORD17	small nucleolar RNA, C/D box 17	-1.837	3.174	Down
10621	POLR3F	RNA polymerase III subunit F	-0.619	2.63	Down
10741	RBBP9	RB binding protein 9, serine hydrolase	-0.712	3.347	Down
10483	SEC23B	SEC23 homolog B, COPII coat complex component	-1.113	6.977	Down
92675	DTD1	D-aminoacyl-tRNA deacylase 1	-0.994	4.75	Down
51126	NAA20	N-alpha-acetyltransferase 20, NatB catalytic subunit	-1.093	4.554	Down
22803	XRN2	5'-3' exoribonuclease 2	-0.491	1.874	Down
29107	NXT1	nuclear transport factor 2 like export factor 1	-1.301	5.517	Down
64412	GZF1	GDNF inducible zinc finger protein 1	-0.341	1.63	Down
1.05E+08	LINC02967	long intergenic non-protein coding RNA 2967	-3.532	2.663	Down
9837	GINS1	GINS complex subunit 1	-2.446	11.211	Down
140838	NANP	N-acetylneuraminic acid phosphatase	-1.58	10.117	Down
284801	MIR663AHG	MIR663A host gene	-2.409	2.082	Down
81502	HM13	histocompatibility minor 13	-0.781	3.719	Down
598	BCL2L1	BCL2 like 1	-3.07	14.412	Down
1.03E+08	ABALON	apoptotic BCL2L1-antisense long non-coding RNA	-2.883	14.278	Down
22974	TPX2	TPX2 microtubule nucleation factor	-1.711	4.996	Down

5326	PLAGL2	PLAG1 like zinc finger 2	-1.694	22.112	Down
23509	POFUT1	protein O-fucosyltransferase 1	-0.583	6.818	Down
9371	KIF3B	kinesin family member 3B	-0.887	7.741	Down
149951	COMMD7	COMM domain containing 7	-0.49	1.543	Down
22919	MAPRE1	microtubule associated protein RP/EB family member 1	-0.885	3.057	Down
51654	CDK5RAP1	CDK5 regulatory subunit associated protein 1	-0.687	3.484	Down
1869	E2F1	E2F transcription factor 1	-2.061	6.367	Down
8894	EIF2S2	eukaryotic translation initiation factor 2 subunit beta	-1.206	5.499	Down
191	AHCY	adenosylhomocysteinase	-1.596	8.862	Down
84557	MAP1LC3A	microtubule associated protein 1 light chain 3 alpha	-1.498	2.928	Down
128869	PIGU	phosphatidylinositol glycan anchor biosynthesis class U	-0.519	1.636	Down
58476	TP53INP2	tumor protein p53 inducible nuclear protein 2	-1.763	5.152	Down
55902	ACSS2	acyl-CoA synthetase short chain family member 2	-0.535	1.558	Down
2937	GSS	glutathione synthetase	-0.527	3.543	Down
26133	TRPC4AP	transient receptor potential cation channel subfamily C member 4 associated protein	-0.505	4.82	Down
3692	EIF6	eukaryotic translation initiation factor 6	-1.397	12.85	Down
55245	UQCC1	ubiquinol-cytochrome c reductase complex assembly factor 1	-0.471	2.926	Down
10137	RBM12	RNA binding motif protein 12	-0.726	2.894	Down
140823	ROMO1	reactive oxygen species modulator 1	-1.316	3.945	Down
9584	RBM39	RNA binding motif protein 39	-1.074	4.871	Down
25980	AAR2	AAR2 splicing factor	-0.534	1.955	Down
60436	TGIF2	TGFB induced factor homeobox 2	-1.034	7.681	Down
1.01E+08	TGIF2-RAB5IF	TGIF2-RAB5IF readthrough	-1.036	7.008	Down
55969	RAB5IF	RAB5 interacting factor	-1.05	6.276	Down
140699	MROH8	maestro heat like repeat family member 8	-0.469	1.377	Down
56259	CTNNBL1	catenin beta like 1	-0.715	6.013	Down
79913	ACTR5	actin related protein 5	-0.49	1.816	Down
7150	TOP1	DNA topoisomerase I	-1.181	9.538	Down

1.02E+08	PLCG1-AS1	PLCG1 antisense RNA 1	-0.814	3.655	Down
6431	SRSF6	serine and arginine rich splicing factor 6	-1.633	8.415	Down
4605	MYBL2	MYB proto-oncogene like 2	-2.734	4.479	Down
84969	TOX2	TOX high mobility group box family member 2	-1.03	2.492	Down
60598	KCNK15	potassium two pore domain channel subfamily K member 15	-5.571	3.276	Down
10953	TOMM34	translocase of outer mitochondrial membrane 34	-1.201	12.067	Down
6385	SDC4	syndecan 4	-2.828	8.727	Down
116092	DNTTIP1	deoxynucleotidyltransferase terminal interacting protein 1	-0.634	2.448	Down
11065	UBE2C	ubiquitin conjugating enzyme E2 C	-2.693	7.049	Down
5360	PLTP	phospholipid transfer protein	-0.63	2.538	Down
57727	NCOA5	nuclear receptor coactivator 5	-0.353	1.427	Down
8202	NCOA3	nuclear receptor coactivator 3	-1.293	4.329	Down
1434	CSE1L	chromosome segregation 1 like	-1.006	6.85	Down
6780	STAU1	staufen double-stranded RNA binding protein 1	-0.501	2.558	Down
55661	DDX27	DEAD-box helicase 27	-0.594	2.098	Down
5740	PTGIS	prostaglandin I2 synthase	-5.7	3.623	Down
1.05E+08	LOC105372651	uncharacterized LOC105372651	-5.983	3.05	Down
9334	B4GALT5	beta-1,4-galactosyltransferase 5	-1.688	10.207	Down
9825	SPATA2	spermatogenesis associated 2	-0.402	1.997	Down
6615	SNAI1	snail family transcriptional repressor 1	-1.804	1.395	Down
1.02E+08	CEBPB-AS1	CEBPB antisense RNA 1	-1.267	6.399	Down
1051	CEBPB	CCAAT enhancer binding protein beta	-1.446	14.091	Down
5770	PTPN1	protein tyrosine phosphatase non-receptor type 1	-1.122	5.112	Down
8813	DPM1	dolichyl-phosphate mannosyltransferase subunit 1, catalytic	-0.547	2.169	Down
4773	NFATC2	nuclear factor of activated T cells 2	-0.567	2.331	Down
6790	AURKA	aurora kinase A	-1.952	13.398	Down
51497	NELFCD	negative elongation factor complex member C/D	-0.734	9.404	Down
51012	PRELID3B	PRELI domain containing 3B	-0.879	6.998	Down

5688	PSMA7	proteasome 20S subunit alpha 7	-1.49	8.16	Down
11047	ADRM1	ADRM1 26S proteasome ubiquitin receptor	-1.474	16.138	Down
1.05E+08	LOC105372707		-1.378	10.629	Down
28231	SLCO4A1	solute carrier organic anion transporter family member 4A1	-2.41	18.708	Down
1E+08	SLCO4A1-AS1	SLCO4A1 antisense RNA 1	-2.508	11.777	Down
11054	OGFR	opioid growth factor receptor	-0.384	1.419	Down
63910	SLC17A9	solute carrier family 17 member 9	-1.866	5.549	Down
1917	EEF1A2	eukaryotic translation elongation factor 1 alpha 2	-1.387	2.018	Down
1.01E+08	RTEL1-TNFRSF6B	RTEL1-TNFRSF6B readthrough (NMD candidate)	-1.218	3.353	Down
51750	RTEL1	regulator of telomere elongation helicase 1	-1.223	3.81	Down
54963	UCKL1	uridine-cytidine kinase 1 like 1	-1.05	7.237	Down
140700	SAMD10	sterile alpha motif domain containing 10	-1.147	3.513	Down
4661	MYT1	myelin transcription factor 1	-2.735	1.886	Down
1.03E+08	LOC102724159	periodic tryptophan protein 2 homolog	-1.443	15.265	Down
1.03E+08	LOC102724428	salt inducible kinase 1B (putative)	-1.844	7.593	Down
1.03E+08	LOC102724560	cystathionine beta-synthase like	-3.715	4.886	Down
1.03E+08	LOC102724594	U2 small nuclear RNA auxiliary factor 1 like 5	-0.941	13.532	Down
64092	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1	-1.053	3.286	Down
1525	CXADR	CXADR Ig-like cell adhesion molecule	-0.493	1.418	Down
10950	BTG3	BTG anti-proliferation factor 3	-0.742	3.72	Down
54072	LINC00158	long intergenic non-protein coding RNA 158	-3.833	4.751	Down
114614	MIR155HG	MIR155 host gene	-6	11.976	Down
406947	MIR155	microRNA 155	-5.8	9.861	Down
54148	MRPL39	mitochondrial ribosomal protein L39	-1.076	13.558	Down
522	ATP5PF	ATP synthase peripheral stalk subunit F6	-0.655	1.76	Down
10600	USP16	ubiquitin specific peptidase 16	-0.364	2.179	Down
10694	CCT8	chaperonin containing TCP1 subunit 8	-1.486	17.302	Down
6647	SOD1	superoxide dismutase 1	-0.755	3.173	Down

57466	SCAF4	SR-related CTD associated factor 4	-0.44	1.426	Down
56246	MRAP	melanocortin 2 receptor accessory protein	-0.847	1.916	Down
9875	URB1	URB1 ribosome biogenesis homolog	-1.132	8.237	Down
1.1E+08	CFAP298-TCP10L	CFAP298-TCP10L readthrough	-0.775	5.028	Down
56683	CFAP298	cilia and flagella associated protein 298	-0.741	4.609	Down
94104	PAXBP1	PAX3 and PAX7 binding protein 1	-0.525	1.827	Down
2618	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	-1.371	12.066	Down
29980	DONSON	DNA replication fork stabilization factor DONSON	-1.411	10.664	Down
54102	CLIC6	chloride intracellular channel 6	-1.575	1.753	Down
861	RUNX1	RUNX family transcription factor 1	-0.43	1.553	Down
1E+08	CBR1-AS1	CBR1 antisense RNA 1	-0.584	1.817	Down
873	CBR1	carbonyl reductase 1	-0.628	2.818	Down
8208	CHAF1B	chromatin assembly factor 1 subunit B	-1.98	10.937	Down
2114	ETS2	ETS proto-oncogene 2, transcription factor	-0.933	6.586	Down
8624	PSMG1	proteasome assembly chaperone 1	-1.16	11.367	Down
3150	HMGN1	high mobility group nucleosome binding domain 1	-0.849	6.144	Down
49854	ZBTB21	zinc finger and BTB domain containing 21	-0.98	12.645	Down
150142	ZNF295-AS1	ZNF295 antisense RNA 1	-2.914	1.97	Down
64699	TMPRSS3	transmembrane serine protease 3	-1.353	1.959	Down
54020	SLC37A1	solute carrier family 37 member 1	-1.486	6.966	Down
1.08E+08	LOC107987299	uncharacterized LOC107987299	-1.471	2.962	Down
10785	WDR4	WD repeat domain 4	-2.349	28.425	Down
875	CBS	cystathionine beta-synthase	-3.757	5.306	Down
7307	U2AF1	U2 small nuclear RNA auxiliary factor 1	-0.937	13.496	Down
1.02E+08	LINC01679	long intergenic non-protein coding RNA 1679	-1.413	1.793	Down
150094	SIK1	salt inducible kinase 1	-1.977	7.067	Down
23076	RRP1B	ribosomal RNA processing 1B	-0.466	2.095	Down

8566	PDXK	pyridoxal kinase	-0.517	1.447	Down
8568	RRP1	ribosomal RNA processing 1	-1.399	16.673	Down
56894	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3	-0.537	2.167	Down
5822	PWP2	PWP2 small subunit processome component	-1.552	14.215	Down
81543	LRRC3	leucine rich repeat containing 3	-0.735	1.743	Down
7327	UBE2G2	ubiquitin conjugating enzyme E2 G2	-0.645	5.459	Down
6612	SUMO3	small ubiquitin like modifier 3	-0.691	4.218	Down
85395	SLX9	SLX9 ribosome biogenesis factor	-1.523	17.717	Down
6573	SLC19A1	solute carrier family 19 member 1	-1.937	13.738	Down
1.05E+08	LINC01694	long intergenic non-protein coding RNA 1694	-2.162	2.302	Down
54039	PCBP3	poly(rC) binding protein 3	-2.427	4.617	Down
27440	HDHD5	haloacid dehalogenase like hydrolase domain containing 5	-0.765	2.804	Down
529	ATP6V1E1	ATPase H+ transporting V1 subunit E1	-0.379	1.508	Down
57553	MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3	-1.064	1.48	Down
2679	GGT3P	gamma-glutamyltransferase 3 pseudogene	-1.701	1.854	Down
64976	MRPL40	mitochondrial ribosomal protein L40	-0.593	1.519	Down
7353	UFD1	ubiquitin recognition factor in ER associated degradation 1	-0.881	4.113	Down
8318	CDC45	cell division cycle 45	-4.425	12.378	Down
10587	TXNRD2	thioredoxin reductase 2	-0.912	4.51	Down
1312	COMT	catechol-O-methyltransferase	-0.578	1.491	Down
54487	DGCR8	DGCR8 microprocessor complex subunit	-0.674	5.868	Down
27037	TRMT2A	tRNA methyltransferase 2 homolog A	-0.385	1.359	Down
5902	RANBP1	RAN binding protein 1	-2.171	30.666	Down
728441	GGT2P	gamma-glutamyltransferase 2, pseudogene	-1.619	1.599	Down
7332	UBE2L3	ubiquitin conjugating enzyme E2 L3	-0.666	4.269	Down
150223	YDJC	YdjC chitooligosaccharide deacetylase homolog	-0.876	4.252	Down
23753	SDF2L1	stromal cell derived factor 2 like 1	-1.508	9.217	Down
96610	BMS1P20	BMS1 pseudogene 20	-1.006	11.757	Down

91227	GGTLC2	gamma-glutamyltransferase light chain 2	-1.648	1.995	Down
400916	CHCHD10	coiled-coil-helix-coiled-coil-helix domain containing 10	-1.102	3.646	Down
6598	SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	-0.922	6.58	Down
284889	MIF-AS1	MIF antisense RNA 1	-1.342	3.074	Down
4282	MIF	macrophage migration inhibitory factor	-1.347	3.107	Down
83606	GUCD1	guanylyl cyclase domain containing 1	-0.494	2.68	Down
6634	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide	-0.448	3.418	Down
2678	GGT1	gamma-glutamyltransferase 1	-1.738	3.372	Down
7152	TOP1P2	DNA topoisomerase I pseudogene 2	-1.632	1.923	Down
57168	ASPHD2	aspartate beta-hydroxylase domain containing 2	-1.699	27.339	Down
23760	PITPNB	phosphatidylinositol transfer protein beta	-0.939	9.272	Down
11200	CHEK2	checkpoint kinase 2	-0.741	2.882	Down
7494	XBP1	X-box binding protein 1	-1.012	3.508	Down
84133	ZNRF3	zinc and ring finger 3	-1.126	3.79	Down
25807	RHBDD3	rhomboid domain containing 3	-1.346	4.197	Down
2130	EWSR1	EWS RNA binding protein 1	-1.224	28.695	Down
162	AP1B1	adaptor related protein complex 1 subunit beta 1	-1.099	13.496	Down
8563	THOC5	THO complex subunit 5	-0.704	7.587	Down
1.11E+08	LIF-AS1	LIF antisense RNA 1	-5.028	3.627	Down
3976	LIF	LIF interleukin 6 family cytokine	-6.637	14.919	Down
91370	LIF-AS2	LIF antisense RNA 2	-6.369	32.244	Down
5008	OSM	oncostatin M	-4.33	7.437	Down
51537	MTFP1	mitochondrial fission process 1	-1.051	3.101	Down
23481	PES1	pescadillo ribosomal biogenesis factor 1	-1.617	22.679	Down
6525	SMTN	smoothelin	-1.572	3.138	Down
4733	DRG1	developmentally regulated GTP binding protein 1	-0.934	5.384	Down
23761	PISD	phosphatidylserine decarboxylase	-1.113	16.649	Down
1.02E+08	MIR7109	microRNA 7109	-1.673	1.637	Down

51493	RTCB	RNA 2',3'-cyclic phosphate and 5'-OH ligase	-0.776	5.15	Down
3162	HMOX1	heme oxygenase 1	-4.036	18.036	Down
4174	MCM5	minichromosome maintenance complex component 5	-1.121	11.071	Down
80830	APOL6	apolipoprotein L6	-0.771	2.325	Down
23780	APOL2	apolipoprotein L2	-1.5	6.504	Down
8542	APOL1	apolipoprotein L1	-1.392	1.636	Down
1.12E+08	LOC112268296		-1.371	1.811	Down
80020	FOXRED2	FAD dependent oxidoreductase domain containing 2	-1.046	3.376	Down
7263	TST	thiosulfate sulfurtransferase	-0.977	1.533	Down
79734	KCTD17	potassium channel tetramerization domain containing 17	-1.054	3.362	Down
164656	TMPRSS6	transmembrane serine protease 6	-2.695	3.925	Down
3560	IL2RB	interleukin 2 receptor subunit beta	-1.571	5.324	Down
5880	RAC2	Rac family small GTPase 2	-0.306	1.399	Down
26088	GGA1	golgi associated, gamma adaptin ear containing, ARF binding protein 1	-0.557	2.092	Down
57026	PDXP	pyridoxal phosphatase	-0.869	5.087	Down
79159	NOL12	nucleolar protein 12	-1.021	7.782	Down
23464	GCAT	glycine C-acetyltransferase	-1.307	2.312	Down
5435	POLR2F	RNA polymerase II, I and III subunit F	-0.715	1.645	Down
9463	PICK1	protein interacting with PRKCA 1	-0.898	4.617	Down
23764	MAFF	MAF bZIP transcription factor F	-1.699	3.886	Down
1.03E+08	TPTEP2-CSNK1E	TPTEP2-CSNK1E readthrough	-0.397	2.098	Down
1454	CSNK1E	casein kinase 1 epsilon	-0.422	2.225	Down
11144	DMC1	DNA meiotic recombinase 1	-2.957	2.817	Down
56993	TOMM22	translocase of outer mitochondrial membrane 22	-1.518	6.017	Down
23466	CBX6	chromobox 6	-0.607	2.963	Down
27350	APOBEC3C	apolipoprotein B mRNA editing enzyme catalytic subunit 3C	-0.532	2.349	Down
468	ATF4	activating transcription factor 4	-0.941	5.37	Down
91582	RPS19BP1	ribosomal protein S19 binding protein 1	-0.877	3.681	Down

113828	FAM83F	family with sequence similarity 83 member F	-3.688	7.489	Down
158	ADSL	adenylosuccinate lyase	-0.913	2.619	Down
10478	SLC25A17	solute carrier family 25 member 17	-0.885	2.836	Down
9978	RBX1	ring-box 1	-0.815	2.292	Down
1.07E+08	SNORD140	small nucleolar RNA, C/D box 140	-1.307	3.804	Down
83746	L3MBTL2	L3MBTL histone methyl-lysine binding protein 2	-0.277	1.613	Down
5905	RANGAP1	Ran GTPase activating protein 1	-1.106	5.144	Down
10766	TOB2	transducer of ERBB2, 2	-0.621	2.122	Down
84844	PHF5A	PHD finger protein 5A	-0.838	3.185	Down
50	ACO2	aconitase 2	-0.921	14.94	Down
171568	POLR3H	RNA polymerase III subunit H	-1.062	10.836	Down
27351	DESI1	desumoylating isopeptidase 1	-2.212	64.053	Down
2547	XRCC6	X-ray repair cross complementing 6	-0.952	5.805	Down
1.08E+08	LOC107985567	protein LLP homolog	-0.981	3.065	Down
1.13E+08	SREBF2-AS1	SREBF2 antisense RNA 1	-0.887	2.479	Down
6721	SREBF2	sterol regulatory element binding transcription factor 2	-1.203	8.397	Down
440829	SHISA8	shisa family member 8	-1.091	6.905	Down
79019	CENPM	centromere protein M	-1.192	5.261	Down
55964	SEPTIN3	septin 3	-2.159	2.596	Down
4668	NAGA	alpha-N-acetylgalactosaminidase	-0.437	3.668	Down
4700	NDUFA6	NADH:ubiquinone oxidoreductase subunit A6	-0.757	2.339	Down
388906	OGFRP1	opioid growth factor receptor pseudogene 1	-1.373	3.324	Down
27341	RRP7A	ribosomal RNA processing 7 homolog A	-1.092	4.045	Down
91695	RRP7BP	ribosomal RNA processing 7 homolog B, pseudogene	-1.235	6.38	Down
1727	CYB5R3	cytochrome b5 reductase 3	-0.458	2.435	Down
26286	ARFGAP3	ADP ribosylation factor GTPase activating protein 3	-0.477	1.853	Down
638	BIK	BCL2 interacting killer	-1.18	2.792	Down
27349	MCAT	malonyl-CoA-acyl carrier protein transacylase	-0.836	4.409	Down

23170	TTLL12	tubulin tyrosine ligase like 12	-1.414	6.786	Down
25813	SAMM50	SAMM50 sorting and assembly machinery component	-0.625	2.309	Down
29780	PARVB	parvin beta	-1.537	5.859	Down
25814	ATXN10	ataxin 10	-0.488	1.694	Down
55020	TTC38	tetratricopeptide repeat domain 38	-1.495	15.49	Down
55687	TRMU	tRNA mitochondrial 2-thiouridylase	-0.639	1.734	Down
79174	CRELD2	cysteine rich with EGF like domains 2	-1.695	12.899	Down
1.08E+08	LOC107985553		-1.801	4.329	Down
415116	PIM3	Pim-3 proto-oncogene, serine/threonine kinase	-2.359	11.284	Down
1.02E+08	MIR6821	microRNA 6821	-2.607	3.542	Down
56666	PANX2	pannexin 2	-4.051	15.682	Down
5600	MAPK11	mitogen-activated protein kinase 11	-2.658	5.96	Down
79924	ADM2	adrenomedullin 2	-1.669	5.571	Down
55586	MIOX	myo-inositol oxygenase	-1.396	3.33	Down
29781	NCAPH2	non-SMC condensin II complex subunit H2	-0.755	3.295	Down
9997	SCO2	synthesis of cytochrome C oxidase 2	-1.94	5.247	Down
1890	TYMP	thymidine phosphorylase	-2.413	2.162	Down
440836	ODF3B	outer dense fiber of sperm tails 3B	-1.923	2.424	Down
23542	MAPK8IP2	mitogen-activated protein kinase 8 interacting protein 2	-2.145	1.88	Down
1.03E+08	LOC102724563	transcription factor E2F6-like	-1.089	3.988	Down
1.03E+08	LOC102724197	inactive glutathione hydrolase 2	-1.999	1.875	Down
1.03E+08	LOC102724865	replaced by ID 100420178	-1.098	3.593	Down
8225	GTPBP6	GTP binding protein 6 (putative)	-0.905	6.411	Down
293	SLC25A6	solute carrier family 25 member 6	-0.629	1.603	Down
80161	ASMTL-AS1	ASMTL antisense RNA 1	-0.624	1.486	Down
8623	ASMTL	acetylserotonin O-methyltransferase like	-0.7	2.412	Down
207063	DHRSX	dehydrogenase/reductase X-linked	-1.045	3.559	Down
412	STS	steroid sulfatase	-0.946	2.195	Down

3052	HCCS	holocytochrome c synthase	-0.949	7.36	Down
5634	PRPS2	phosphoribosyl pyrophosphate synthetase 2	-0.526	1.479	Down
2187	FANCB	FA complementation group B	-0.58	1.411	Down
4810	NHS	NHS actin remodeling regulator	-2.376	2.446	Down
10389	SCML2	Scm polycomb group protein like 2	-1.561	8.324	Down
5160	PDHA1	pyruvate dehydrogenase E1 subunit alpha 1	-0.747	6.417	Down
6611	SMS	spermine synthase	-0.888	5.367	Down
10549	PRDX4	peroxiredoxin 4	-1.553	4.871	Down
23597	ACOT9	acyl-CoA thioesterase 9	-0.726	2.612	Down
79135	APOO	apolipoprotein O	-1.34	5.139	Down
5422	POLA1	DNA polymerase alpha 1, catalytic subunit	-0.985	4.443	Down
2710	GK	glycerol kinase	-1.904	7.401	Down
1.05E+08	LOC105373181		-0.824	2.001	Down
2857	GPR34	G protein-coupled receptor 34	-1.906	2.17	Down
27197	GPR82	G protein-coupled receptor 82	-1.703	1.45	Down
4128	MAOA	monoamine oxidase A	-2.923	3.117	Down
401588	ZNF674-AS1	ZNF674 antisense RNA 1 (head to head)	-0.902	2.536	Down
84679	SLC9A7	solute carrier family 9 member A7	-0.67	1.66	Down
8241	RBM10	RNA binding motif protein 10	-0.47	2.861	Down
7317	UBA1	ubiquitin like modifier activating enzyme 1	-0.614	1.902	Down
2002	ELK1	ETS transcription factor ELK1	-1.045	14.597	Down
92745	SLC38A5	solute carrier family 38 member 5	-2.588	54.741	Down
24140	FTSJ1	FtsJ RNA 2'-O-methyltransferase 1	-0.954	5.084	Down
10682	EBP	EBP cholestenol delta-isomerase	-1.152	8.395	Down
5935	RBM3	RNA binding motif protein 3	-1.29	7.618	Down
6839	SUV39H1	SUV39H1 histone lysine methyltransferase	-0.441	1.604	Down
10245	TIMM17B	translocase of inner mitochondrial membrane 17B	-0.706	3.539	Down
11040	PIM2	Pim-2 proto-oncogene, serine/threonine kinase	-1.638	3.945	Down

55593	OTUD5	OTU deubiquitinase 5	-0.794	13.132	Down
7030	TFE3	transcription factor binding to IGHM enhancer 3	-1.098	5.226	Down
79917	MAGIX	MAGI family member, X-linked	-1.083	1.328	Down
6855	SYP	synaptophysin	-3.625	12.293	Down
28952	CCDC22	coiled-coil domain containing 22	-0.634	4.036	Down
1.03E+08	KANTR	KANTR integral membrane protein	-1.37	5.842	Down
3028	HSD17B10	hydroxysteroid 17-beta dehydrogenase 10	-1.345	12.433	Down
10075	HUWE1	HECT, UBA and WWE domain containing E3 ubiquitin protein ligase 1	-1.924	9.572	Down
23133	PHF8	PHD finger protein 8	-0.349	1.732	Down
29978	UBQLN2	ubiquilin 2	-0.445	2.814	Down
81887	LAS1L	LAS1 like ribosome biogenesis factor	-0.794	5.584	Down
27112	NALF2	NALCN channel auxiliary factor 2	-3.365	3.085	Down
55869	HDAC8	histone deacetylase 8	-0.762	3.689	Down
5255	PHKA1	phosphorylase kinase regulatory subunit alpha 1	-3.664	11.025	Down
51260	PBDC1	polysaccharide biosynthesis domain containing 1	-0.73	5.314	Down
84061	MAGT1	magnesium transporter 1	-0.378	1.349	Down
1349	COX7B	cytochrome c oxidase subunit 7B	-0.881	2.361	Down
441531	PGAM4	phosphoglycerate mutase family member 4	-1.954	9.441	Down
5230	PGK1	phosphoglycerate kinase 1	-1.23	2.505	Down
139324	HDX	highly divergent homeobox	-1.865	1.909	Down
1478	CSTF2	cleavage stimulation factor subunit 2	-1.625	29.86	Down
2491	CENPI	centromere protein I	-1.233	1.404	Down
1678	TIMM8A	translocase of inner mitochondrial membrane 8A	-1.169	9.837	Down
2717	GLA	galactosidase alpha	-1.468	7.579	Down
3188	HNRNPH2	heterogeneous nuclear ribonucleoprotein H2	-0.463	1.886	Down
5631	PRPS1	phosphoribosyl pyrophosphate synthetase 1	-0.452	1.896	Down
2182	ACSL4	acyl-CoA synthetase long chain family member 4	-0.641	2.777	Down
1.05E+08	LOC105373311	uncharacterized LOC105373311	-0.971	2.743	Down

79868	ALG13	ALG13 UDP-N-acetylglucosaminyltransferase subunit	-0.757	3.328	Down
10857	PGRMC1	progesterone receptor membrane component 1	-0.578	2.135	Down
203427	SLC25A43	solute carrier family 25 member 43	-1.059	4.456	Down
1E+08	SLC25A5-AS1	SLC25A5 antisense RNA 1	-1.153	6.541	Down
292	SLC25A5	solute carrier family 25 member 5	-1.277	6.097	Down
7319	UBE2A	ubiquitin conjugating enzyme E2 A	-0.868	8.973	Down
55922	NKRF	NFKB repressing factor	-0.709	3.352	Down
28985	MCTS1	MCTS1 re-initiation and release factor	-0.694	2.455	Down
4952	OCRL	OCRL inositol polyphosphate-5-phosphatase	-0.711	1.712	Down
51114	ZDHHC9	zinc finger DHHC-type palmitoyltransferase 9	-0.506	1.61	Down
10813	UTP14A	UTP14A small subunit processome component	-0.866	4.996	Down
1.05E+08	LOC105373335	uncharacterized LOC105373335	-0.868	2.09	Down
63035	BCORL1	BCL6 corepressor like 1	-0.881	5.341	Down
9131	AIFM1	apoptosis inducing factor mitochondria associated 1	-0.668	4.145	Down
9016	SLC25A14	solute carrier family 25 member 14	-0.605	1.753	Down
57826	RAP2C	RAP2C, member of RAS oncogene family	-0.65	3.528	Down
84295	PHF6	PHD finger protein 6	-0.471	1.35	Down
3251	HPRT1	hypoxanthine phosphoribosyltransferase 1	-1.038	3.614	Down
8933	RTL8C	retrotransposon Gag like 8C	-0.409	2.385	Down
79649	MAP7D3	MAP7 domain containing 3	-0.754	1.501	Down
1E+08	LINC00892	long intergenic non-protein coding RNA 892	-1.805	6.343	Down
959	CD40LG	CD40 ligand	-2.067	8.576	Down
27316	RBMX	RNA binding motif protein X-linked	-0.839	13.265	Down
389898	UBE2NL	ubiquitin conjugating enzyme E2 N like (gene/pseudogene)	-1.481	2.249	Down
1.02E+08	HSFX4	heat shock transcription factor family, X-linked member 4	-1.289	2.277	Down
10046	MAMLD1	mastermind like domain containing 1	-2.262	9.289	Down
8776	MTMR1	myotubularin related protein 1	-0.388	2.855	Down
3149	HMGB3	high mobility group box 3	-2.026	12.082	Down

50814	NSDHL	NAD(P) dependent steroid dehydrogenase-like	-1.208	7.565	Down
84968	PNMA6A	PNMA family member 6A	-2.309	2.928	Down
139735	ZFP92	ZFP92 zinc finger protein	-1.567	6.097	Down
55559	HAUS7	HAUS augmin like complex subunit 7	-1.34	17.706	Down
3421	IDH3G	isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit gamma	-0.428	1.524	Down
8260	NAA10	N-alpha-acetyltransferase 10, NatA catalytic subunit	-1.653	16.982	Down
3054	HCFC1	host cell factor C1	-0.894	2.597	Down
3654	IRAK1	interleukin 1 receptor associated kinase 1	-1.676	14.981	Down
2010	EMD	emerin	-0.618	2.903	Down
2664	GDI1	GDP dissociation inhibitor 1	-0.46	3.997	Down
9130	FAM50A	family with sequence similarity 50 member A	-0.735	2.7	Down
8270	LAGE3	L antigen family member 3	-0.815	2.345	Down
2539	G6PD	glucose-6-phosphate dehydrogenase	-1.675	14.146	Down
8517	IKBKG	inhibitor of nuclear factor kappa B kinase regulatory subunit gamma	-0.475	2.841	Down
1736	DKC1	dyskerin pseudouridine synthase 1	-1.289	8.71	Down
65991	FUNDC2	FUN14 domain containing 2	-0.715	1.523	Down
7411	VBP1	VHL binding protein 1	-0.963	4.504	Down
116442	RAB39B	RAB39B, member RAS oncogene family	-0.626	3.01	Down
1.01E+08	LOC100996442	WAS protein family homolog 2-like	1.266	1.447	Up
400728	FAM87B	family with sequence similarity 87 member B	1.266	1.415	Up
643837	LINC01128	long intergenic non-protein coding RNA 1128	1.394	3.252	Up
80772	CPTP	ceramide-1-phosphate transfer protein	0.626	5.111	Up
142678	MIB2	MIB E3 ubiquitin protein ligase 2	0.765	2.363	Up
728661	SLC35E2B	solute carrier family 35 member E2B	1.401	12.255	Up
9906	SLC35E2A	solute carrier family 35 member E2A	1.522	11.034	Up
6497	SKI	SKI proto-oncogene	1.33	3.564	Up
9651	PLCH2	phospholipase C eta 2	1.853	3.524	Up
1953	MEGF6	multiple EGF like domains 6	3.464	22.12	Up
127262	TPRG1L	tumor protein p63 regulated 1 like	1.259	6.784	Up
1677	DFFB	DNA fragmentation factor subunit beta	0.49	1.61	Up
55966	AJAP1	adherens junctions associated protein 1	4.365	3.828	Up
83715	ESPN	espin	1.056	4.547	Up
3104	ZBTB48	zinc finger and BTB domain containing 48	0.544	2.092	Up
9903	KLHL21	kelch like family member 21	0.583	2.113	Up
473	RERE	arginine-glutamic acid dipeptide repeats	0.915	3.096	Up

9563	H6PD	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	0.823	2.813	Up
5293	PIK3CD	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	0.266	3.112	Up
22883	CLSTN1	calsyntenin 1	1.053	7.826	Up
56998	CTNNBIP1	catenin beta interacting protein 1	0.571	1.514	Up
57085	AGTRAP	angiotensin II receptor associated protein	0.608	1.624	Up
284498	C1orf167	chromosome 1 open reading frame 167	0.532	1.393	Up
9249	DHRS3	dehydrogenase/reductase 3	0.696	2.315	Up
348487	FAM131C	family with sequence similarity 131 member C	3.348	1.764	Up
79363	CPLANE2	ciliogenesis and planar polarity effector complex subunit 2	0.88	3.318	Up
54455	FBXO42	F-box protein 42	0.574	6.851	Up
1.08E+08	LINC01772	long intergenic non-protein coding RNA 1772	2.24	2.317	Up
114819	CROCCP3	CROCC pseudogene 3	1.848	2.451	Up
55672	NBPF1	NBPF member 1	1.417	3.327	Up
1.08E+08	LOC107985736	uncharacterized LOC107985736	2.301	1.402	Up
1.05E+08	LOC105376805	uncharacterized LOC105376805	1.036	1.719	Up
55160	ARHGEF10L	Rho guanine nucleotide exchange factor 10 like	2.325	1.908	Up
8574	AKR7A2	aldo-keto reductase family 7 member A2	0.816	2.017	Up
55450	CAMK2N1	calcium/calmodulin dependent protein kinase II inhibitor 1	0.886	2.481	Up
65018	PINK1	PTEN induced kinase 1	1.51	12.589	Up
1.12E+08	LOC112268222		0.698	6.596	Up
50809	HP1BP3	heterochromatin protein 1 binding protein 3	0.525	2.629	Up
1.01E+08	ECE1-AS1	ECE1 antisense RNA 1	1.004	1.624	Up
84224	NBPF3	NBPF member 3	0.573	1.56	Up
714	C1QC	complement C1q C chain	1.95	1.511	Up
80818	ZNF436	zinc finger protein 436	1.018	9.406	Up
148898	ZNF436-AS1	ZNF436 antisense RNA 1	3.054	2.816	Up
6920	TCEA3	transcription elongation factor A3	1.6	7.776	Up
1870	E2F2	E2F transcription factor 2	1.509	1.497	Up
3399	ID3	inhibitor of DNA binding 3	2.207	5.406	Up
259283	MDS2	myelodysplastic syndrome 2 translocation associated	3.685	12.943	Up
3155	HMGCL	3-hydroxy-3-methylglutaryl-CoA lyase	0.868	3.88	Up
57185	NIPAL3	NIPA like domain containing 3	1.288	17.387	Up
1.01E+08	RCAN3AS	RCAN3 antisense RNA	2.335	4.695	Up
11123	RCAN3	RCAN family member 3	1.811	29.6	Up
1.01E+08	NCMAP-DT	NCMAP divergent transcript	2.261	35.05	Up
25949	SYF2	SYF2 pre-mRNA splicing factor	0.65	2.471	Up
26119	LDLRAP1	low density lipoprotein receptor adaptor protein 1	3.173	32.489	Up
57134	MAN1C1	mannosidase alpha class 1C member 1	0.806	6.314	Up
5051	PAFAH2	platelet activating factor acetylhydrolase 2	1.381	3.145	Up
149420	PDIK1L	PDLIM1 interacting kinase 1 like	0.954	6.945	Up
83442	SH3BGRL3	SH3 domain binding glutamate rich protein like 3	0.45	1.835	Up
91544	UBXN11	UBX domain protein 11	3.257	28.389	Up

1043	CD52	CD52 molecule	3.578	29.534	Up
257101	ZNF683	zinc finger protein 683	5.059	2.551	Up
126695	KDF1	keratinocyte differentiation factor 1	1.295	4.624	Up
23038	WDTC1	WD and tetratricopeptide repeats 1	0.88	6.318	Up
84958	SYTL1	synaptotagmin like 1	1.328	10.262	Up
10163	WASF2	WASP family member 2	0.472	2.582	Up
1.05E+08	LOC105376892	uncharacterized LOC105376892	3.736	2.073	Up
27245	AHDC1	AT-hook DNA binding motif containing 1	0.66	1.961	Up
2268	FGR	FGR proto-oncogene, Src family tyrosine kinase	1.632	1.818	Up
199870	FAM76A	family with sequence similarity 76 member A	0.492	2.552	Up
9473	THEMIS2	thymocyte selection associated family member 2	1.864	6.336	Up
55113	XKR8	XK related 8	0.376	1.649	Up
85028	SNHG12	small nucleolar RNA host gene 12	1.437	3.79	Up
2035	EPB41	erythrocyte membrane protein band 4.1	1.589	12.476	Up
399474	TMEM200B	transmembrane protein 200B	1.57	9.945	Up
1E+08	MATN1-AS1	MATN1 antisense RNA 1	1.413	2.933	Up
7805	LAPTM5	lysosomal protein transmembrane 5	1.937	14.634	Up
1.05E+08	LOC105378620	uncharacterized LOC105378620	2.166	4.287	Up
9698	PUM1	pumilio RNA binding family member 1	0.654	2.366	Up
3932	LCK	LCK proto-oncogene, Src family tyrosine kinase	0.787	4.211	Up
65108	MARCKSL1	MARCKS like 1	1.102	3.44	Up
81629	TSSK3	testis specific serine kinase 3	1.672	3.456	Up
64766	S100PBP	S100P binding protein	0.692	2.865	Up
113451	AZIN2	antizyme inhibitor 2	2.267	6.268	Up
55223	TRIM62	tripartite motif containing 62	0.496	1.956	Up
149076	ZNF362	zinc finger protein 362	1.54	13.111	Up
7579	ZSCAN20	zinc finger and SCAN domain containing 20	0.786	2.84	Up
653160	GPR199P	G protein-coupled receptor 199, pseudogene	2.103	4.129	Up
1.01E+08	TMEM35B	transmembrane protein 35B	0.763	1.915	Up
79830	ZMYM1	zinc finger MYM-type containing 1	1.936	15.38	Up
79932	KIAA0319L	KIAA0319 like	0.677	2.532	Up
192670	AGO4	argonaute RISC component 4	2.115	11.901	Up
55700	MAP7D1	MAP7 domain containing 1	0.792	1.982	Up
55194	EVA1B	eva-1 homolog B	1.22	4.307	Up
1441	CSF3R	colony stimulating factor 3 receptor	3.605	4.102	Up
728431	ZC3H12A-DT	ZC3H12A divergent transcript	0.949	1.583	Up
3633	INPP5B	inositol polyphosphate-5-phosphatase B	0.506	2.122	Up
643314	KIAA0754	replaced by ID 23499	1.928	2.474	Up
51440	HPCAL4	hippocalcin like 4	3.213	43.101	Up
4610	MYCL	MYCL proto-oncogene, bHLH transcription factor	5.077	8.282	Up
22887	FOXJ3	forkhead box J3	0.547	3.476	Up
374969	SVBP	small vasohibin binding protein	0.836	2.055	Up
114625	ERMAP	erythroblast membrane associated protein (Scianna blood group)	0.97	3.449	Up
51058	ZNF691	zinc finger protein 691	0.666	2.071	Up
23334	SZT2	SZT2 subunit of KICSTOR complex	0.894	1.485	Up
81888	HYI	hydroxypyruvate isomerase (putative)	0.827	2.039	Up
6487	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	0.43	1.838	Up
57643	ZSWIM5	zinc finger SWIM-type containing 5	1.253	2.064	Up

9813	EFCAB14	EF-hand calcium binding domain 14	0.508	2.869	Up
6886	TAL1	TAL bHLH transcription factor 1, erythroid differentiation factor	1.771	2.948	Up
51727	CMPK1	cytidine/uridine monophosphate kinase 1	0.833	3.996	Up
84793	FOXD2-AS1	FOXD2 adjacent opposite strand RNA 1	0.982	3.059	Up
79656	BEND5	BEN domain containing 5	1.711	4.969	Up
1031	CDKN2C	cyclin dependent kinase inhibitor 2C	1.237	3.091	Up
9372	ZFYVE9	zinc finger FYVE-type containing 9	0.773	2.566	Up
23318	TUT4	terminal uridylyl transferase 4	0.889	6.398	Up
348378	SHISAL2A	shisa like 2A	2.391	21.347	Up
79699	ZYG11B	zyg-11 family member B, cell cycle regulator	0.721	3.484	Up
1.08E+08	LINC02812	long intergenic non-protein coding RNA 2812	3.483	5.372	Up
23648	SSBP3	single stranded DNA binding protein 3	0.499	1.643	Up
1600	DAB1	DAB adaptor protein 1	3.639	6.336	Up
115209	OMA1	OMA1 zinc metallopeptidase	0.644	1.372	Up
1E+08	LINC01135	long intergenic non-protein coding RNA 1135	2.865	3.073	Up
1.02E+08	LOC101926907	uncharacterized LOC101926907	2.592	3.596	Up
4774	NFIA	nuclear factor I A	1.945	12.405	Up
84938	ATG4C	autophagy related 4C cysteine peptidase	0.807	2.607	Up
57685	CACHD1	cache domain containing 1	1.901	1.638	Up
55225	RAVER2	ribonucleoprotein, PTB binding 2	0.589	1.722	Up
3716	JAK1	Janus kinase 1	0.845	4.361	Up
54741	LEPROT	leptin receptor overlapping transcript	0.541	1.319	Up
79819	DNAI4	dynein axonemal intermediate chain 4	2.075	3.247	Up
1647	GADD45A	growth arrest and DNA damage inducible alpha	0.943	1.481	Up
57554	LRRC7	leucine rich repeat containing 7	1.87	1.933	Up
8790	FPGT	fucose-1-phosphate guanylyltransferase	0.511	1.348	Up
10026	PIGK	phosphatidylinositol glycan anchor biosynthesis class K	0.778	3.385	Up
26289	AK5	adenylate kinase 5	3.762	15.737	Up
23032	USP33	ubiquitin specific peptidase 33	0.426	1.88	Up
374986	MIGA1	mitoguardin 1	1.014	9.258	Up
5567	PRKACB	protein kinase cAMP-activated catalytic subunit beta	2.25	7.83	Up
117178	SSX2IP	SSX family member 2 interacting protein	0.92	2.954	Up
84144	SYDE2	synapse defective Rho GTPase homolog 2	0.643	1.427	Up
57489	ODF2L	outer dense fiber of sperm tails 2 like	0.646	4.368	Up
9653	HS2ST1	heparan sulfate 2-O-sulfotransferase 1	0.482	1.67	Up
5586	PKN2	protein kinase N2	0.57	3.282	Up
55144	LRRC8D	leucine rich repeat containing 8 VRAC subunit D	0.882	1.684	Up
7049	TGFBR3	transforming growth factor beta receptor 3	0.582	1.573	Up
284697	BTBD8	BTB domain containing 8	1.798	1.331	Up
23285	KIAA1107	replaced by ID 284697	2.463	6.4	Up
8412	BCAR3	BCAR3 adaptor protein, NSP family member	1.1	2.116	Up
148534	TLCD4	TLC domain containing 4	1.3	1.932	Up
1.01E+08	TLCD4-RWDD3	TLCD4-RWDD3 readthrough	0.902	1.837	Up
1806	DPYD	dihydropyrimidine dehydrogenase	2.031	9.38	Up
1.01E+08	DPYD-AS1	DPYD antisense RNA 1	1.722	5.405	Up
23443	SLC35A3	solute carrier family 35 member A3	0.872	2.473	Up
1629	DBT	dihydrolipoamide branched chain transacylase E2	0.942	4.752	Up

8556	CDC14A	cell division cycle 14A	1.54	16.079	Up
1.05E+08	LOC105379827	uncharacterized LOC105379827	1.919	2.266	Up
51611	DPH5	diphthamide biosynthesis 5	0.749	1.813	Up
1.03E+08	DPH5-DT	DPH5 divergent transcript	0.939	2.3	Up
1.02E+08	S1PR1-DT	S1PR1 divergent transcript	0.471	1.449	Up
1901	S1PR1	sphingosine-1-phosphate receptor 1	0.654	2.047	Up
1.03E+08	LOC102723784	uncharacterized LOC102723784	2.706	4.672	Up
280	AMY2B	amylase alpha 2B	1.636	2.522	Up
279	AMY2A	amylase alpha 2A	2.509	1.718	Up
29899	GPSM2	G protein signaling modulator 2	0.384	1.308	Up
56900	TMEM167B	transmembrane protein 167B	0.602	5.827	Up
57535	ELAPOR1	endosome-lysosome associated apoptosis and autophagy regulator 1	1.501	16.33	Up
1952	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2	1.161	3.081	Up
6272	SORT1	sortilin 1	1.604	3.156	Up
284613	CYB561D1	cytochrome b561 family member D1	0.88	4.287	Up
57463	AMIGO1	adhesion molecule with Ig like domain 1	3.089	17.945	Up
85369	STRIP1	striatin interacting protein 1	0.395	1.639	Up
257	ALX3	ALX homeobox 3	1.153	2.692	Up
3749	KCNC4	potassium voltage-gated channel subfamily C member 4	0.711	1.346	Up
128338	DRAM2	DNA damage regulated autophagy modulator 2	1.23	3.238	Up
79961	DENND2D	DENN domain containing 2D	0.912	2.301	Up
1117	CHI3L2	chitinase 3 like 2	2.715	5.7	Up
128344	PIFO	primary cilia formation	2.504	1.958	Up
128346	C1orf162	chromosome 1 open reading frame 162	2.313	14.238	Up
7482	WNT2B	Wnt family member 2B	1.308	1.766	Up
4343	MOV10	Mov10 RISC complex RNA helicase	0.532	1.321	Up
1.01E+08	LRIG2-DT	LRIG2 divergent transcript	1.663	1.415	Up
9860	LRIG2	leucine rich repeats and immunoglobulin like domains 2	1.149	4.103	Up
260425	MAGI3	membrane associated guanylate kinase, WW and PDZ domain containing 3	0.768	2.168	Up
54665	RSBN1	round spermatid basic protein 1	0.662	3.779	Up
26191	PTPN22	protein tyrosine phosphatase non-receptor type 22	0.646	1.915	Up
10100	TSPAN2	tetraspanin 2	3.123	9.651	Up
476	ATP1A1	ATPase Na+/K+ transporting subunit alpha 1	0.376	2.692	Up
84852	ATP1A1-AS1	ATP1A1 antisense RNA 1	0.433	2.517	Up
1.02E+08	CD101-AS1	CD101 antisense RNA 1	2.736	1.865	Up
1.08E+08	LOC107985522		1.155	2.361	Up
1.05E+08	LOC105378954		1.539	6.698	Up
728841	NBPF8	NBPF member 8	1.362	2.335	Up
1.01E+08	PDE4DIPP2	PDE4DIP pseudogene 2	1.545	4.193	Up
1.08E+08	LOC107985524	uncharacterized LOC107985524	1.519	5.341	Up
728855	LINC00623	long intergenic non-protein coding RNA 623	1.234	3.485	Up

1.01E+08	LOC100996720	uncharacterized LOC100996720	1.19	3.508	Up
653464	SRGAP2C	SLIT-ROBO Rho GTPase activating protein 2C	0.809	2.65	Up
1.08E+08	LINC02798	long intergenic non-protein coding RNA 2798	4.698	7.285	Up
647121	EMBP1	embigin pseudogene 1	1.395	6.507	Up
1.01E+08	SRGAP2D	SLIT-ROBO Rho GTPase activating protein 2D (pseudogene)	0.92	2.708	Up
284565	NBPF15	NBPF member 15	1.695	8.412	Up
647135	SRGAP2B	SLIT-ROBO Rho GTPase activating protein 2B	1.031	4.063	Up
1.03E+08	LINC01145	long intergenic non-protein coding RNA 1145	1.466	6.687	Up
1.01E+08	LOC100996740	uncharacterized LOC100996740	1.462	4.956	Up
1.05E+08	LOC105371312	uncharacterized LOC105371312	1.36	4.384	Up
1.02E+08	NBPF25P	NBPF member 25, pseudogene	1.319	2.252	Up
8799	PEX11B	peroxisomal biogenesis factor 11 beta	0.439	1.898	Up
128077	LIX1L	limb and CNS expressed 1 like	0.686	4.583	Up
84265	POLR3GL	RNA polymerase III subunit GL	0.977	6.283	Up
10628	TXNIP	thioredoxin interacting protein	1.999	23.344	Up
388677	NOTCH2NLA	notch 2 N-terminal like A	0.508	2.083	Up
1.03E+08	SEC22B4P	SEC22 homolog B4, pseudogene	0.5	1.583	Up
1.12E+08	LOC112268274	uncharacterized LOC112268274	3.545	2.794	Up
1.01E+08	LOC100996756	uncharacterized LOC100996756	3.256	26.446	Up
149013	NBPF12	NBPF member 12	1.35	1.767	Up
5565	PRKAB2	protein kinase AMP-activated non-catalytic subunit beta 2	1.127	4.96	Up
51205	ACP6	acid phosphatase 6, lysophosphatidic	0.708	2.672	Up
200030	NBPF11	NBPF member 11	1.394	1.909	Up
1E+08	PDE4DIPP6	PDE4DIP pseudogene 6	1.544	3.635	Up
388685	LINC01138	long intergenic non-protein coding RNA 1138	1.133	4.047	Up
1.05E+08	LOC105371224	uncharacterized LOC105371224	1.09	7.351	Up
1.01E+08	NOTCH2NLB	notch 2 N-terminal like B	0.752	2.991	Up
9659	PDE4DIP	phosphodiesterase 4D interacting protein	1.436	6.408	Up
1.12E+08	LOC112268272	uncharacterized LOC112268272	1.246	2.486	Up
400818	NBPF9	NBPF member 9	1.386	2.676	Up
1.03E+08	LOC102723348	uncharacterized LOC102723348	2.893	1.897	Up
1.01E+08	NOTCH2NLC	notch 2 N-terminal like C	1.279	7.398	Up
1.01E+08	NBPF19	NBPF member 19	1.409	1.61	Up
57234	LINC00869	long intergenic non-protein coding RNA 869	1.38	6.498	Up
1.12E+08	LOC112268236		1.527	3.573	Up
644634	LOC644634	uncharacterized LOC644634	1.322	3.177	Up

1.12E+08	LOC112268238	replaced by ID 554313	0.923	1.967	Up
51177	PLEKHO1	pleckstrin homology domain containing O1	0.844	2.453	Up
79630	C1orf54	chromosome 1 open reading frame 54	2.073	5.365	Up
23248	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.973	5.714	Up
4170	MCL1	MCL1 apoptosis regulator, BCL2 family member	0.458	1.823	Up
55204	GOLPH3L	golgi phosphoprotein 3 like	0.721	1.652	Up
1520	CTSS	cathepsin S	0.502	1.629	Up
405	ARNT	aryl hydrocarbon receptor nuclear translocator	0.335	1.313	Up
8416	ANXA9	annexin A9	2.57	15.765	Up
55793	MINDY1	MINDY lysine 48 deubiquitinase 1	1.743	10.24	Up
58497	PRUNE1	prune exopolyphosphatase 1	0.804	2.078	Up
149428	BNIPL	BCL2 interacting protein like	1.759	1.386	Up
54964	C1orf56	chromosome 1 open reading frame 56	0.834	4.028	Up
56882	CDC42SE1	CDC42 small effector 1	0.731	8.505	Up
10962	MLLT11	MLLT11 transcription factor 7 cofactor	0.842	1.313	Up
126626	GABPB2	GA binding protein transcription factor subunit beta 2	1.176	2.206	Up
10500	SEMA6C	semaphorin 6C	2.552	6.834	Up
79626	TNFAIP8L2	TNF alpha induced protein 8 like 2	2.211	19.234	Up
81609	SNX27	sorting nexin 27	0.397	1.316	Up
11189	CELF3	CUGBP Elav-like family member 3	0.461	1.793	Up
1.1E+08	TDRKH-AS1	TDRKH antisense RNA 1	2.011	3.35	Up
6097	RORC	RAR related orphan receptor C	0.779	1.431	Up
117145	THEM4	thioesterase superfamily member 4	0.881	2.525	Up
6281	S100A10	S100 calcium binding protein A10	0.49	1.992	Up
6282	S100A11	S100 calcium binding protein A11	0.61	1.685	Up
6279	S100A8	S100 calcium binding protein A8	1.826	1.486	Up
6275	S100A4	S100 calcium binding protein A4	1.863	7.726	Up
1.02E+08	LOC101928034	uncharacterized LOC101928034	1.911	9.084	Up
11000	SLC27A3	solute carrier family 27 member 3	2.072	10.079	Up
57459	GATAD2B	GATA zinc finger domain containing 2B	0.509	1.459	Up
6232	RPS27	ribosomal protein S27	1.049	2.266	Up
57198	ATP8B2	ATPase phospholipid transporting 8B2	1.097	6.477	Up
3570	IL6R	interleukin 6 receptor	1.301	9.143	Up
126669	SHE	Src homology 2 domain containing E	1.341	7.383	Up
57326	PBXIP1	PBX homeobox interacting protein 1	2.794	104.621	Up
90780	PYGO2	pygopus family PHD finger 2	0.981	6.65	Up
1.02E+08	LOC101928120	uncharacterized LOC101928120	0.61	2.192	Up
1944	EFNA3	ephrin A3	1.439	5.249	Up
1942	EFNA1	ephrin A1	3.233	4.445	Up
7059	THBS3	thrombospondin 3	0.949	1.584	Up
1.05E+08	THBS3-AS1	THBS3 antisense RNA 1	0.884	1.302	Up
55870	ASH1L	ASH1 like histone lysine methyltransferase	0.832	1.456	Up
693140	MIR555	microRNA 555	1.215	1.381	Up
1.08E+08	ARHGEF2-AS2	ARHGEF2 antisense RNA 2	2.955	3.596	Up
112770	GLMP	glycosylated lysosomal membrane protein	0.515	2.18	Up
375033	PEAR1	platelet endothelial aggregation receptor 1	3.266	1.7	Up

9826	ARHGEF11	Rho guanine nucleotide exchange factor 11	2.898	54.142	Up
910	CD1B	CD1b molecule	3.613	3.598	Up
911	CD1C	CD1c molecule	4.703	4.775	Up
913	CD1E	CD1e molecule	3.946	4.73	Up
4332	MNDA	myeloid cell nuclear differentiation antigen	2.828	1.327	Up
149628	PYHIN1	pyrin and HIN domain family member 1	1.455	6.075	Up
2205	FCER1A	Fc epsilon receptor Ia	2.951	7.338	Up
343413	FCRL6	Fc receptor like 6	4.29	4.541	Up
50717	DCAF8	DDB1 and CUL4 associated factor 8	0.559	4.277	Up
114836	SLAMF6	SLAM family member 6	1.442	15.596	Up
962	CD48	CD48 molecule	1.282	2.758	Up
4063	LY9	lymphocyte antigen 9	2.968	22.15	Up
50848	F11R	F11 receptor	0.836	1.834	Up
7391	USF1	upstream transcription factor 1	0.517	1.378	Up
257106	ARHGAP30	Rho GTPase activating protein 30	0.493	1.883	Up
27005	USP21	ubiquitin specific peptidase 21	0.722	2.79	Up
257177	CFAP126	cilia and flagella associated protein 126	0.771	1.649	Up
2213	FCGR2B	Fc gamma receptor IIb	1.983	2.852	Up
84824	FCRLA	Fc receptor like A	2.734	1.475	Up
127943	FCRLB	Fc receptor like B	2.471	2.335	Up
117157	SH2D1B	SH2 domain containing 1B	2.162	3.892	Up
5087	PBX1	PBX homeobox 1	4.468	6.519	Up
1.05E+08	LOC105371600	uncharacterized LOC105371600	5.106	5.161	Up
10223	GPA33	glycoprotein A33	4.783	34.347	Up
919	CD247	CD247 molecule	0.878	8.437	Up
92241	RCSD1	RCSD domain containing 1	1.488	3.925	Up
55827	DCAF6	DDB1 and CUL4 associated factor 6	0.58	2.236	Up
9095	TBX19	T-box transcription factor 19	1.82	4.26	Up
6402	SELL	selectin L	1.108	8.381	Up
8674	VAMP4	vesicle associated membrane protein 4	0.867	10.6	Up
26052	DNM3	dynamin 3	1.151	2.401	Up
1.03E+08	LOC102724528	uncharacterized LOC102724528	1.277	1.619	Up
92346	C1orf105	chromosome 1 open reading frame 105	1.282	2.229	Up
5279	PIGC	phosphatidylinositol glycan anchor biosynthesis class C	1.145	6.09	Up
7292	TNFSF4	TNF superfamily member 4	0.569	1.848	Up
1.01E+08	LOC100506023	uncharacterized LOC100506023	0.988	1.519	Up
1.02E+08	PRDX6-AS1	PRDX6 antisense RNA 1	1.752	1.987	Up
1.01E+08	GAS5-AS1	GAS5 antisense RNA 1	1.41	2.58	Up
60674	GAS5	growth arrest specific 5	1.589	4.078	Up
1.07E+08	SNORA103	small nucleolar RNA, H/ACA box 103	1.719	5.08	Up
84614	ZBTB37	zinc finger and BTB domain containing 37	0.879	2.183	Up
9910	RABGAP1L	RAB GTPase activating protein 1 like	1.107	3.998	Up
1.05E+08	LOC105371622	uncharacterized LOC105371622	2.132	7.745	Up
9462	RASAL2	RAS protein activator like 2	2.023	1.56	Up
646976	RALGPS2-AS1	RALGPS2 antisense RNA 1	1.661	1.506	Up

55103	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2	1.722	17.482	Up
3140	MR1	major histocompatibility complex, class I-related	0.742	7.712	Up
6041	RNASEL	ribonuclease L	1.435	12.382	Up
3915	LAMC1	laminin subunit gamma 1	1.541	1.474	Up
4688	NCF2	neutrophil cytosolic factor 2	2.517	5.493	Up
1.08E+08	LOC107985235		5.12	2.668	Up
23179	RGL1	ral guanine nucleotide dissociation stimulator like 1	1.418	9.553	Up
81563	C1orf21	chromosome 1 open reading frame 21	2.493	3.812	Up
1.08E+08	LOC107985236	uncharacterized LOC107985236	2.327	2.894	Up
80267	EDEM3	ER degradation enhancing alpha-mannosidase like protein 3	0.815	6.611	Up
81627	TRMT1L	tRNA methyltransferase 1 like	0.814	3.076	Up
54823	SWT1	SWT1 RNA endoribonuclease homolog	0.598	1.998	Up
10625	IVNS1ABP	influenza virus NS1A binding protein	0.539	1.732	Up
64407	RGS18	regulator of G protein signaling 18	2.268	5.754	Up
8707	B3GALT2	beta-1,3-galactosyltransferase 2	1.56	6.318	Up
1.08E+08	LOC107985242	uncharacterized LOC107985242	1.958	2.519	Up
3075	CFH	complement factor H	1.975	5.136	Up
360023	ZBTB41	zinc finger and BTB domain containing 41	1.281	11.257	Up
23418	CRB1	crumbs cell polarity complex component 1	4.438	2.787	Up
140609	NEK7	NIMA related kinase 7	0.997	15.531	Up
5788	PTPRC	protein tyrosine phosphatase receptor type C	0.711	6.794	Up
23271	CAMSAP2	calmodulin regulated spectrin associated protein family member 2	1.015	4.409	Up
2848	GPR25	G protein-coupled receptor 25	2.88	4.182	Up
252839	TMEM9	transmembrane protein 9	0.617	1.419	Up
1.08E+08	CSRP1-AS1	CSRP1 antisense RNA 1	1.04	1.835	Up
59352	LGR6	leucine rich repeat containing G protein-coupled receptor 6	4.599	2.87	Up
4660	PPP1R12B	protein phosphatase 1 regulatory subunit 12B	1.218	2.315	Up
54900	LAX1	lymphocyte transmembrane adaptor 1	0.749	1.519	Up
9580	SOX13	SRY-box transcription factor 13	1.818	3.139	Up
5972	REN	renin	4.015	2.864	Up
25778	DSTYK	dual serine/threonine and tyrosine protein kinase	0.491	1.362	Up
81788	NUAK2	NUAK family kinase 2	2.899	30.115	Up
148808	MFSD4A	major facilitator superfamily domain containing 4A	2.007	5.305	Up
64710	NUCKS1	nuclear casein kinase and cyclin dependent kinase substrate 1	0.371	1.525	Up
338382	RAB7B	RAB7B, member RAS oncogene family	2.37	2.738	Up
440712	RHEX	regulator of hemoglobinization and erythroid cell expansion	4.254	2.869	Up
23380	SRGAP2	SLIT-ROBO Rho GTPase activating protein 2	0.917	1.717	Up
1939	EIF2D	eukaryotic translation initiation factor 2D	0.738	3.098	Up
1.05E+08	LOC105372879	uncharacterized LOC105372879	3.38	3.029	Up
11009	IL24	interleukin 24	3.574	45.24	Up
9214	FCMR	Fc mu receptor	3.834	37.98	Up
1380	CR2	complement C3d receptor 2	3.433	3.679	Up
1378	CR1	complement C3b/C4b receptor 1 (Knops blood group)	6.263	8.143	Up

947	CD34	CD34 molecule	2.761	4.082	Up
80342	TRAF3IP3	TRAF3 interacting protein 3	1.061	7.318	Up
148304	C1orf74	chromosome 1 open reading frame 74	1.031	6.54	Up
55733	HHAT	hedgehog acyltransferase	1.387	4.23	Up
55758	RCOR3	REST corepressor 3	0.507	2.493	Up
7188	TRAF5	TNF receptor associated factor 5	0.956	11.596	Up
5525	PPP2R5A	protein phosphatase 2 regulatory subunit B'alpha	0.426	4.788	Up
642946	FLVCR1-DT	FLVCR1 divergent transcript	0.838	1.314	Up
26750	RPS6KC1	ribosomal protein S6 kinase C1	0.612	4.221	Up
51133	KCTD3	potassium channel tetramerization domain containing 3	1.097	1.59	Up
79762	C1orf115	chromosome 1 open reading frame 115	1.02	2.157	Up
375056	MIA3	MIA SH3 domain ER export factor 3	0.563	3.396	Up
64853	AIDA	axin interactor, dorsalization associated	0.743	3.547	Up
84976	DISP1	dispatched RND transporter family member 1	0.634	1.624	Up
7100	TLR5	toll like receptor 5	2.108	4.534	Up
55061	SUSD4	sushi domain containing 4	1.371	4.28	Up
824	CAPN2	calpain 2	0.558	2.058	Up
1E+08	SEPTIN7P13	septin 7 pseudogene 13	1.044	2.954	Up
2052	EPHX1	epoxide hydrolase 1	2.211	18.1	Up
9725	TMEM63A	transmembrane protein 63A	2.162	21.347	Up
3707	ITPKB	inositol-trisphosphate 3-kinase B	1.398	6.546	Up
56997	COQ8A	coenzyme Q8A	0.875	5.195	Up
7483	WNT9A	Wnt family member 9A	3.451	2.273	Up
79169	C1orf35	chromosome 1 open reading frame 35	0.418	1.341	Up
574407	OBSCN-AS1	OBSCN antisense RNA 1	1.898	2.985	Up
84033	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	2.456	8.397	Up
1.02E+08	LOC101927401	uncharacterized LOC101927401	2.615	4.649	Up
92815	H2AC25	H2A clustered histone 25	0.898	2.185	Up
5867	RAB4A	RAB4A, member RAS oncogene family	0.446	2.621	Up
126731	CCSAP	centriole, cilia and spindle associated protein	0.748	2.06	Up
23456	ABCB10	ATP binding cassette subfamily B member 10	0.452	1.538	Up
54583	EGLN1	egl-9 family hypoxia inducible factor 1	0.856	1.414	Up
1E+08	TSNAX-DISC1	TSNAX-DISC1 readthrough (NMD candidate)	0.461	1.932	Up
27185	DISC1	DISC1 scaffold protein	1.776	7.34	Up
80003	PCNX2	pecanex 2	1.59	3.778	Up
359948	IRF2BP2	interferon regulatory factor 2 binding protein 2	0.582	1.927	Up
9453	GGPS1	geranylgeranyl diphosphate synthase 1	0.659	4.129	Up
4811	NID1	nidogen 1	2.108	2.199	Up
7107	GPR137B	G protein-coupled receptor 137B	0.748	1.928	Up
4548	MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	0.793	2.844	Up
1131	CHRM3	cholinergic receptor muscarinic 3	2.229	1.326	Up
1.01E+08	CHRM3-AS2	CHRM3 antisense RNA 2	1.393	3.18	Up
8564	KMO	kynurenine 3-monooxygenase	1.826	7.789	Up
23596	OPN3	opsin 3	1.234	3.73	Up
10806	SDCCAG8	SHH signaling and ciliogenesis regulator SDCCAG8	0.57	3.778	Up
10000	AKT3	AKT serine/threonine kinase 3	0.84	8.334	Up
10472	ZBTB18	zinc finger and BTB domain containing 18	2.789	27.715	Up

1.05E+08	LOC105373264		2.169	1.641	Up
163882	CNST	consortin, connexin sorting protein	1.013	6.222	Up
114548	NLRP3	NLR family pyrin domain containing 3	1.73	5.797	Up
1.05E+08	LOC105373279	uncharacterized LOC105373279	2.498	3.037	Up
80851	SH3BP5L	SH3 binding domain protein 5 like	0.494	4.7	Up
267002	PGBD2	piggyBac transposable element derived 2	0.6	2.125	Up
1.03E+08	LOC102724250	neuroblastoma breakpoint family member 1-like	1.613	3.233	Up
55256	ADI1	acireductone dioxygenase 1	0.761	1.995	Up
3241	HPCAL1	hippocalcin like 1	0.622	1.445	Up
130814	SLC66A3	solute carrier family 66 member 3	1.093	7.118	Up
1.05E+08	LOC105373431	uncharacterized LOC105373431	2.493	5.395	Up
28951	TRIB2	tribbles pseudokinase 2	1.795	9.633	Up
4613	MYCN	MYCN proto-oncogene, bHLH transcription factor	2.277	1.738	Up
400946	LINC00954	long intergenic non-protein coding RNA 954	1.864	1.449	Up
23369	PUM2	pumilio RNA binding family member 2	0.647	2.738	Up
64342	HS1BP3	HCLS1 binding protein 3	0.795	3.911	Up
151449	GDF7	growth differentiation factor 7	1.425	1.479	Up
54454	ATAD2B	ATPase family AAA domain containing 2B	0.614	1.525	Up
375190	FAM228B	family with sequence similarity 228 member B	1.756	9.619	Up
51277	DNAJC27	DnaJ heat shock protein family (Hsp40) member C27	0.623	1.48	Up
729723	DNAJC27-AS1	DNAJC27 antisense RNA 1	2.996	5.195	Up
55252	ASXL2	ASXL transcriptional regulator 2	0.551	2.034	Up
3797	KIF3C	kinesin family member 3C	1.03	2.077	Up
1.05E+08	LOC105374334	uncharacterized LOC105374334	1.535	1.533	Up
7349	UCN	urocortin	2.027	1.367	Up
26160	IFT172	intraflagellar transport 172	1.344	5.11	Up
79635	CCDC121	coiled-coil domain containing 121	2.475	5.317	Up
79745	CLIP4	CAP-Gly domain containing linker protein family member 4	1.057	9.427	Up
51646	YPEL5	yippee like 5	1.254	7.325	Up
81606	LBH	LBH regulator of WNT signaling pathway	2.033	6.621	Up
84272	YIPF4	Yip1 domain family member 4	0.526	4.148	Up
6801	STRN	striatin	0.52	3.008	Up
54497	HEATR5B	HEAT repeat containing 5B	1.465	14.123	Up
253635	GPATCH11	G-patch domain containing 11	0.646	1.479	Up
55471	NDUFAF7	NADH:ubiquinone oxidoreductase complex assembly factor 7	0.441	1.649	Up
23683	PRKD3	protein kinase D3	0.827	1.879	Up
1.05E+08	LINC03063	long intergenic non-protein coding RNA 3063	2.415	10.033	Up
1.08E+08	LOC107985869	uncharacterized LOC107985869	1.917	2.213	Up
151393	RMDN2	regulator of microtubule dynamics 2	1.262	2.43	Up
1545	CYP1B1	cytochrome P450 family 1 subfamily B member 1	1.491	2.603	Up
8491	MAP4K3	mitogen-activated protein kinase kinase kinase kinase 3	0.747	1.492	Up
6546	SLC8A1	solute carrier family 8 member A1	2.227	1.847	Up
27436	EML4	EMAP like 4	0.475	1.382	Up

1.08E+08	LOC107985873		0.62	1.57	Up
1.08E+08	LOC107985876	uncharacterized LOC107985876	2.899	2.302	Up
678	ZFP36L2	ZFP36 ring finger protein like 2	2.38	14.904	Up
5495	PPM1B	protein phosphatase, Mg2+/Mn2+ dependent 1B	0.374	1.511	Up
1.08E+08	LOC107985878		1.202	1.757	Up
5581	PRKCE	protein kinase C epsilon	0.659	3.455	Up
90423	ATP6V1E2	ATPase H+ transporting V1 subunit E2	1.109	4.655	Up
129285	PPP1R21	protein phosphatase 1 regulatory subunit 21	0.635	5.598	Up
11037	STON1	stonin 1	2.087	3.268	Up
27248	ERLEC1	endoplasmic reticulum lectin 1	0.545	1.727	Up
1.12E+08	LOC112268415	uncharacterized LOC112268415	0.678	1.456	Up
98	ACYP2	acylphosphatase 2	0.766	1.891	Up
6711	SPTBN1	spectrin beta, non-erythrocytic 1	1.783	5.041	Up
130162	CLHC1	clathrin heavy chain linker domain containing 1	1.231	2.575	Up
55704	CCDC88A	coiled-coil domain containing 88A	1.504	2.3	Up
112942	CFAP36	cilia and flagella associated protein 36	1.053	2.624	Up
53335	BCL11A	BCL11 transcription factor A	1.794	3.039	Up
130872	AHSA2P	activator of HSP90 ATPase homolog 2, pseudogene	0.903	2.252	Up
51057	WDPCP	WD repeat containing planar cell polarity effector	0.728	2.199	Up
1.08E+08	LOC107984063		1.273	2.31	Up
23177	CEP68	centrosomal protein 68	2.324	23.173	Up
54465	ETAA1	ETAA1 activator of ATR kinase	0.592	1.646	Up
554251	FBXO48	F-box protein 48	0.355	1.321	Up
22848	AAK1	AP2 associated kinase 1	0.947	2.947	Up
1.12E+08	LOC112268437	uncharacterized protein FLJ45252	0.971	1.964	Up
64395	GMCL1	germ cell-less 1, spermatogenesis associated	1.161	5.1	Up
151516	ASPRV1	aspartic peptidase retroviral like 1	0.979	1.979	Up
400960	PCBP1-AS1	PCBP1 antisense RNA 1	0.827	3.679	Up
51449	PCYOX1	prenylcysteine oxidase 1	1.536	13.484	Up
7039	TGFA	transforming growth factor alpha	1.756	3.209	Up
165530	CLEC4F	C-type lectin domain family 4 member F	5.27	1.821	Up
50489	CD207	CD207 molecule	6.602	2.314	Up
400961	PAIP2B	poly(A) binding protein interacting protein 2B	2.035	21.244	Up
388963	C2orf81	chromosome 2 open reading frame 81	1.415	4.374	Up
23559	WBP1	WW domain binding protein 1	1.035	4.023	Up
1768	DNAH6	dynein axonemal heavy chain 6	2.442	4.494	Up
1.01E+08	LOC100996506		1.821	3.891	Up
10618	TGOLN2	trans-golgi network protein 2	0.364	3.495	Up
388969	C2orf68	chromosome 2 open reading frame 68	0.759	5.395	Up
55818	KDM3A	lysine demethylase 3A	1.289	5.209	Up
1.01E+08	RNF103-CHMP3	RNF103-CHMP3 readthrough	0.728	2.142	Up
51652	CHMP3	charged multivesicular body protein 3	0.728	2.087	Up
7844	RNF103	ring finger protein 103	0.93	5.23	Up
5343	PLGLB1	plasminogen like B1	1.003	2.084	Up

5342	PLGLB2	plasminogen like B2	0.965	2.496	Up
51315	KRCC1	lysine rich coiled-coil 1	0.686	2.134	Up
1.02E+08	EIF2AK3-DT	EIF2AK3 divergent transcript	1.371	3.142	Up
1.08E+08	LOC107985911	lymphocyte specific protein 1 pseudogene	0.882	2.08	Up
84874	ZNF514	zinc finger protein 514	0.735	1.49	Up
7549	ZNF2	zinc finger protein 2	0.936	5.711	Up
55683	KANSL3	KAT8 regulatory NSL complex subunit 3	0.638	3.337	Up
1.01E+08	CNNM3-DT	CNNM3 divergent transcript	3.388	5.057	Up
26505	CNNM3	cyclin and CBS domain divalent metal cation transport mediator 3	1.46	11.202	Up
54910	SEMA4C	semaphorin 4C	2.083	9.251	Up
151313	FAHD2B	fumarylacetoacetate hydrolase domain containing 2B	0.63	1.991	Up
23505	TMEM131	transmembrane protein 131	0.667	2.107	Up
3631	INPP4A	inositol polyphosphate-4-phosphatase type I A	1.313	8.934	Up
493753	COA5	cytochrome c oxidase assembly factor 5	0.66	1.84	Up
11320	MGAT4A	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A	1.656	20.165	Up
1.08E+08	LOC107985922	uncharacterized LOC107985922	2.976	1.906	Up
1.02E+08	LINC02611	long intergenic non-protein coding RNA 2611	2.539	8.397	Up
80705	TSGA10	testis specific 10	0.936	3.157	Up
150590	C2orf15	chromosome 2 open reading frame 15	2.075	10.553	Up
51601	LIPT1	lipoyltransferase 1	1.205	5.948	Up
3899	AFF3	ALF transcription elongation factor 3	2.674	20.452	Up
130827	TMEM182	transmembrane protein 182	1.003	2.056	Up
84417	ECRG4	ECRG4 augurin precursor	2.313	2.874	Up
80146	UXS1	UDP-glucuronate decarboxylase 1	1.063	6.194	Up
644903	GCC2-AS1	GCC2 antisense RNA 1	1.103	1.304	Up
3987	LIMS1	LIM zinc finger domain containing 1	0.78	5.185	Up
10913	EDAR	ectodysplasin A receptor	3.031	13.792	Up
1E+08	SH3RF3-AS1	SH3RF3 antisense RNA 1	2.987	7.087	Up
344558	SH3RF3	SH3 domain containing ring finger 3	3.373	13.244	Up
96626	LIMS3	LIM zinc finger domain containing 3	0.594	1.766	Up
1E+08	LIMS4	LIM zinc finger domain containing 4	0.581	2.106	Up
84910	TMEM87B	transmembrane protein 87B	0.999	5.983	Up
129804	FBLN7	fibulin 7	0.937	1.949	Up
376940	ZC3H6	zinc finger CCCH-type containing 6	2.045	12.515	Up
400999	SLC20A1-DT	SLC20A1 divergent transcript	3.296	1.705	Up
1.02E+08	LINC01961	long intergenic non-protein coding RNA 1961	3.014	2.77	Up
54520	CCDC93	coiled-coil domain containing 93	0.509	1.96	Up
140738	TMEM37	transmembrane protein 37	4.526	1.57	Up
1.02E+08	LOC101927764	uncharacterized LOC101927764	1.273	3.594	Up
5775	PTPN4	protein tyrosine phosphatase non-receptor type 4	1.852	15.437	Up
2995	GYPC	glycophorin C (Gerbich blood group)	1.126	3.935	Up
274	BIN1	bridging integrator 1	0.972	4.835	Up
84317	CCDC115	coiled-coil domain containing 115	0.707	6.924	Up
26469	PTPN18	protein tyrosine phosphatase non-receptor type 18	0.446	2.809	Up

653784	MZT2A	mitotic spindle organizing protein 2A	0.464	1.413	Up
1E+08	CCNT2-AS1	CCNT2 antisense RNA 1	1.148	1.986	Up
905	CCNT2	cyclin T2	0.683	3.748	Up
1.12E+08	LOC112268426		1.197	3.997	Up
7852	CXCR4	C-X-C motif chemokine receptor 4	1.163	4.322	Up
55843	ARHGAP15	Rho GTPase activating protein 15	0.961	3.081	Up
92	ACVR2A	activin A receptor type 2A	1.069	2.096	Up
55777	MBD5	methyl-CpG binding domain protein 5	0.564	2.11	Up
26122	EPC2	enhancer of polycomb homolog 2	0.517	2.889	Up
375287	RBM43	RNA binding motif protein 43	2.57	6.34	Up
1.02E+08	LINC01876	long intergenic non-protein coding RNA 1876	4.05	2.092	Up
440918	FLJ46875	uncharacterized LOC440918	1.573	1.515	Up
1.05E+08	LOC105373714	uncharacterized LOC105373714	2.871	1.455	Up
8502	PKP4	plakophilin 4	0.508	1.791	Up
29994	BAZ2B	bromodomain adjacent to zinc finger domain 2B	0.937	1.484	Up
1.03E+08	LOC102724081	uncharacterized LOC102724081	1.338	1.537	Up
9874	TLK1	tousled like kinase 1	0.924	3.703	Up
79901	CYBRD1	cytochrome b reductase 1	1.919	4.273	Up
3655	ITGA6	integrin subunit alpha 6	2.468	22.639	Up
5163	PDK1	pyruvate dehydrogenase kinase 1	0.778	3.846	Up
6670	SP3	Sp3 transcription factor	0.399	2.164	Up
151556	GPR155	G protein-coupled receptor 155	0.545	2.021	Up
1E+08	LOC100130691	Putative uncharacterized protein FLJ44553	1.082	1.947	Up
150737	TTC30B	tetratricopeptide repeat domain 30B	1.643	6.3	Up
7273	TTN	titin	0.744	1.602	Up
285025	CCDC141	coiled-coil domain containing 141	1.492	3.701	Up
91404	SESTD1	SEC14 and spectrin domain containing 1	1.063	1.305	Up
1.02E+08	LINC01934	long intergenic non-protein coding RNA 1934	1.316	4.622	Up
3676	ITGA4	integrin subunit alpha 4	1.208	3.85	Up
375298	CERKL	ceramide kinase like	1.432	5.155	Up
6744	ITPRID2	ITPR interacting domain containing 2	0.545	1.846	Up
142679	DUSP19	dual specificity phosphatase 19	1.772	5.426	Up
10203	CALCRL	calcitonin receptor like receptor	2.949	4.88	Up
7035	TFPI	tissue factor pathway inhibitor	2.884	4.63	Up
30061	SLC40A1	solute carrier family 40 member 1	2.456	5.32	Up
150709	ANKAR	ankyrin and armadillo repeat containing	0.92	2.843	Up
64172	OSGEPL1	O-sialoglycoprotein endopeptidase like 1	0.859	2.417	Up
1E+08	NEMP2	nuclear envelope integral membrane protein 2	0.537	1.744	Up
91526	ANKRD44	ankyrin repeat domain 44	0.432	1.788	Up
1.02E+08	ANKRD44-AS1	ANKRD44 antisense RNA 1	3.161	10.982	Up
5334	PLCL1	phospholipase C like 1 (inactive)	1.267	15.673	Up
130535	KCTD18	potassium channel tetramerization domain containing 18	0.671	4.736	Up
1195	CLK1	CDC like kinase 1	1.085	3.756	Up
841	CASP8	caspase 8	1.076	4.757	Up
66008	TRAK2	trafficking kinesin protein 2	0.299	1.559	Up

659	BMPR2	bone morphogenetic protein receptor type 2	1.726	10.381	Up
150864	FAM117B	family with sequence similarity 117 member B	1.585	10.387	Up
79800	CARF	calcium responsive transcription factor	1.608	6.922	Up
10152	ABI2	abl interactor 2	0.43	1.514	Up
57683	ZDBF2	zinc finger DBF-type containing 2	0.779	7.007	Up
8745	ADAM23	ADAM metallopeptidase domain 23	3.26	13.366	Up
8609	KLF7	KLF transcription factor 7	1.485	8.306	Up
200576	PIKFYVE	phosphoinositide kinase, FYVE-type zinc finger containing	0.941	4.523	Up
151050	KANSL1L	KAT8 regulatory NSL complex subunit 1 like	0.65	2.256	Up
10314	LANCL1	LanC like glutathione S-transferase 1	0.654	2.878	Up
92691	TMEM169	transmembrane protein 169	2.372	6.853	Up
64114	TMBIM1	transmembrane BAX inhibitor motif containing 1	1.128	7.279	Up
1.02E+08	MIR6513	microRNA 6513	1.19	4.559	Up
6556	SLC11A1	solute carrier family 11 member 1	2.991	4.057	Up
58190	CTDSP1	CTD small phosphatase 1	0.837	3.701	Up
1593	CYP27A1	cytochrome P450 family 27 subfamily A member 1	4.711	6.361	Up
79137	RETREG2	reticulophagy regulator family member 2	0.926	9.37	Up
55139	ANKZF1	ankyrin repeat and zinc finger peptidyl tRNA hydrolase 1	0.601	4.193	Up
3300	DNAJB2	DnaJ heat shock protein family (Hsp40) member B2	0.542	2.311	Up
10290	SPEG	striated muscle enriched protein kinase	1.423	2.627	Up
2043	EPHA4	EPH receptor A4	5.215	48.518	Up
79843	FAM124B	family with sequence similarity 124 member B	2.061	2.294	Up
55022	PID1	phosphotyrosine interaction domain containing 1	4.51	2.937	Up
3635	INPP5D	inositol polyphosphate-5-phosphatase D	0.955	3.571	Up
55054	ATG16L1	autophagy related 16 like 1	0.48	2.554	Up
8527	DGKD	diacylglycerol kinase delta	1.071	3.874	Up
1.05E+08	LINC01891	long intergenic non-protein coding RNA 1891	1.661	1.581	Up
116987	AGAP1	ArfGAP with GTPase domain, ankyrin repeat and PH domain 1	1.682	1.528	Up
57007	ACKR3	atypical chemokine receptor 3	4.451	25.177	Up
10267	RAMP1	receptor activity modifying protein 1	1.597	2.014	Up
51281	ANKMY1	ankyrin repeat and MYND domain containing 1	1.101	2.722	Up
285193	DUSP28	dual specificity phosphatase 28	0.955	4.876	Up
57140	RNPEPL1	arginyl aminopeptidase like 1	1.086	14.828	Up
25992	SNED1	sushi, nidogen and EGF like domains 1	2.109	12.196	Up
1.08E+08	LOC107985787	uncharacterized LOC107985787	3.703	1.849	Up
130916	MTERF4	mitochondrial transcription termination factor 4	1.305	13.707	Up
23178	PASK	PAS domain containing serine/threonine kinase	1.766	27.902	Up
1.05E+08	LOC105373976		1.803	1.473	Up
285093	RTP5	receptor transporter protein 5 (putative)	4.799	2.727	Up
1.02E+08	LINC01237	long intergenic non-protein coding RNA 1237	1.721	2.236	Up
1.03E+08	LINC01238	long intergenic non-protein coding RNA 1238	2.312	2.087	Up
51185	CRBN	cereblon	1.173	6.27	Up
285362	SUMF1	sulfatase modifying factor 1	0.582	1.413	Up
9901	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	0.69	1.929	Up
26140	TTLL3	tubulin tyrosine ligase like 3	1.437	1.693	Up

132014	IL17RE	interleukin 17 receptor E	2.096	2.085	Up
84818	IL17RC	interleukin 17 receptor C	1.243	2.383	Up
78987	CRELD1	cysteine rich with EGF like domains 1	0.65	3.059	Up
152302	CIDECP1	CIDEC pseudogene 1	0.532	1.558	Up
619563	SNORA7A	small nucleolar RNA, H/ACA box 7A	0.93	1.858	Up
9922	IQSEC1	IQ motif and Sec7 domain ArfGEF 1	1.227	4.883	Up
7476	WNT7A	Wnt family member 7A	4.834	25.708	Up
7508	XPC	XPC complex subunit, DNA damage recognition and repair factor	0.901	9.36	Up
1.08E+08	XPC-AS1	XPC antisense RNA 1	2.586	2.314	Up
6533	SLC6A6	solute carrier family 6 member 6	0.594	1.756	Up
80852	GRIP2	glutamate receptor interacting protein 2	0.765	2.903	Up
1.01E+08	FGD5-AS1	FGD5 antisense RNA 1	0.518	2.163	Up
7182	NR2C2	nuclear receptor subfamily 2 group C member 2	0.712	2.915	Up
64432	MRPS25	mitochondrial ribosomal protein S25	0.366	1.51	Up
64145	RBSN	rabenosyn, RAB effector	1.058	5.636	Up
23473	CAPN7	calpain 7	0.585	3.288	Up
686	BTD	biotinidase	1.52	12.084	Up
92106	OXNAD1	oxidoreductase NAD binding domain containing 1	1.045	7.031	Up
23228	PLCL2	phospholipase C like 2	1.548	26.645	Up
9779	TBC1D5	TBC1 domain family member 5	0.627	2.121	Up
1.02E+08	SATB1-AS1	SATB1 antisense RNA 1	0.692	2.597	Up
9975	NR1D2	nuclear receptor subfamily 1 group D member 2	1.856	20.177	Up
7155	TOP2B	DNA topoisomerase II beta	0.729	2.826	Up
9497	SLC4A7	solute carrier family 4 member 7	1.049	5.637	Up
64343	AZI2	5-azacytidine induced 2	0.365	1.497	Up
27303	RBMS3	RNA binding motif single stranded interacting protein 3	1.543	2.318	Up
7048	TGFBR2	transforming growth factor beta receptor 2	1.176	2.651	Up
23171	GPD1L	glycerol-3-phosphate dehydrogenase 1 like	0.988	4.614	Up
112616	CMTM7	CKLF like MARVEL transmembrane domain containing 7	0.746	3.638	Up
1.08E+08	LOC107986073		1.676	4.022	Up
10491	CRTAP	cartilage associated protein	1.859	15.748	Up
1.05E+08	LINC02033	long intergenic non-protein coding RNA 2033	3.325	3.559	Up
9881	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1	2.267	17.683	Up
50853	VILL	villin like	0.742	2.025	Up
5333	PLCD1	phospholipase C delta 1	2.698	34.516	Up
1E+08	ACVR2B-AS1	ACVR2B antisense RNA 1	5.996	3.434	Up
93	ACVR2B	activin A receptor type 2B	1.517	4.001	Up
1524	CX3CR1	C-X3-C motif chemokine receptor 1	2.202	1.961	Up
54977	SLC25A38	solute carrier family 25 member 38	0.361	1.513	Up
440952	EIF1B-AS1	EIF1B antisense RNA 1	1.662	2.023	Up
285266	ENTPD3-AS1	ENTPD3 antisense RNA 1	0.979	1.536	Up
285267	ZNF619	zinc finger protein 619	0.882	3.546	Up
285268	ZNF621	zinc finger protein 621	0.626	1.926	Up
7433	VIPR1	vasoactive intestinal peptide receptor 1	3.77	30.073	Up
1.01E+08	VIPR1-AS1	VIPR1 antisense RNA 1	3.501	5.806	Up

9117	SEC22C	SEC22 homolog C, vesicle trafficking protein	0.587	2.141	Up
54861	SNRK	SNF related kinase	1.192	7.205	Up
1.01E+08	SNRK-AS1	SNRK antisense RNA 1	1.198	7.618	Up
285343	TCAIM	T cell activation inhibitor, mitochondrial	0.611	2.974	Up
353274	ZNF445	zinc finger protein 445	1.167	6.076	Up
285346	ZNF852	zinc finger protein 852	1.242	3.678	Up
1.1E+08	ZNF660-ZNF197	ZNF660-ZNF197 readthrough	0.859	3.367	Up
10168	ZNF197	zinc finger protein 197	0.872	3.456	Up
115560	ZNF501	zinc finger protein 501	0.989	1.961	Up
57456	KIAA1143	KIAA1143	0.279	1.58	Up
131616	TMEM42	transmembrane protein 42	1.26	4.636	Up
10803	CCR9	C-C motif chemokine receptor 9	4.754	14.023	Up
1232	CCR3	C-C motif chemokine receptor 3	1.571	1.408	Up
79442	LRRC2	leucine rich repeat containing 2	3.569	6.122	Up
259173	ALS2CL	ALS2 C-terminal like	2.463	8.315	Up
259236	TMIE	transmembrane inner ear	1.449	4.2	Up
1.01E+08	FCF1P2	FCF1 pseudogene 2	0.726	2.164	Up
51246	SHISA5	shisa family member 5	1.629	15.202	Up
1.01E+08	PRKAR2A-AS1	PRKAR2A antisense RNA 1	0.962	1.404	Up
10869	USP19	ubiquitin specific peptidase 19	0.557	1.731	Up
22973	LAMB2P1	laminin subunit beta 2 pseudogene 1	1.861	2.578	Up
375341	C3orf62	chromosome 3 open reading frame 62	0.777	1.73	Up
275	AMT	aminomethyltransferase	1.513	1.546	Up
84276	NICN1	nicolin 1, tubulin polyglutamylase complex subunit	0.527	1.501	Up
7318	UBA7	ubiquitin like modifier activating enzyme 7	0.69	2.123	Up
10181	RBM5	RNA binding motif protein 5	0.508	1.999	Up
1E+08	SEMA3F-AS1	SEMA3F antisense RNA 1	0.533	1.852	Up
24142	NAA80	N-alpha-acetyltransferase 80, NatH catalytic subunit	0.66	3.98	Up
1.02E+08	RASSF1-AS1	RASSF1 antisense RNA 1	2.284	2.772	Up
51364	ZMYND10	zinc finger MYND-type containing 10	2.592	1.637	Up
9254	CACNA2D2	calcium voltage-gated channel auxiliary subunit alpha2delta 2	1.23	5.372	Up
51368	TEX264	testis expressed 264, ER-phagy receptor	0.678	2.473	Up
84836	ABHD14B	abhydrolase domain containing 14B	1.487	7.24	Up
25864	ABHD14A	abhydrolase domain containing 14A	1.011	3.803	Up
1849	DUSP7	dual specificity phosphatase 7	1.336	12.874	Up
54106	TLR9	toll like receptor 9	1.165	1.919	Up
80335	WDR82	WD repeat domain 82	0.492	1.907	Up
51533	PHF7	PHD finger protein 7	1.048	3.295	Up
56920	SEMA3G	semaphorin 3G	1.972	2.518	Up
7134	TNNC1	troponin C1, slow skeletal and cardiac type	2.188	1.499	Up
23166	STAB1	stabilin 1	2.347	11.505	Up
55830	GLT8D1	glycosyltransferase 8 domain containing 1	0.51	2.615	Up
51460	SFMBT1	Scm like with four mbt domains 1	1.131	4.622	Up
285331	CCDC66	coiled-coil domain containing 66	1.387	5.645	Up
23272	TASOR	transcription activation suppressor	0.471	1.439	Up
50650	ARHGEF3	Rho guanine nucleotide exchange factor 3	1.413	11.475	Up

201627	DENND6A	DENN domain containing 6A	0.948	5.551	Up
2317	FLNB	filamin B	1.105	2.839	Up
1.05E+08	FLNB-AS1	FLNB antisense RNA 1	1.259	2.568	Up
54899	PXK	PX domain containing serine/threonine kinase like	0.304	1.446	Up
2272	FHIT	fragile histidine triad diadenosine triphosphatase	2.112	6.382	Up
6314	ATXN7	ataxin 7	1.006	5.519	Up
1.02E+08	SUCLG2-DT	SUCLG2 divergent transcript	1.683	1.316	Up
407738	TAFA1	TAFA chemokine like family member 1	6.028	7.711	Up
4286	MITF	melanocyte inducing transcription factor	1.92	1.907	Up
27086	FOXP1	forkhead box P1	0.378	1.638	Up
1.08E+08	LOC107986097		3.718	4.152	Up
55279	ZNF654	zinc finger protein 654	0.471	1.528	Up
200895	DHFR2	dihydrofolate reductase 2	0.557	2.266	Up
2838	GPR15	G protein-coupled receptor 15	0.778	1.416	Up
10402	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	2.605	3.96	Up
50939	IMPG2	interphotoreceptor matrix proteoglycan 2	2.032	1.84	Up
57337	SENP7	SUMO specific peptidase 7	1.49	32.365	Up
27107	ZBTB11	zinc finger and BTB domain containing 11	0.402	2.662	Up
91775	NXPE3	neurexophilin and PC-esterase domain family member 3	0.719	4.237	Up
9666	DZIP3	DAZ interacting zinc finger protein 3	1.022	6.977	Up
10225	CD96	CD96 molecule	0.895	3.907	Up
90102	PHLDB2	pleckstrin homology like domain family B member 2	1.331	1.402	Up
25871	NEPRO	nucleolus and neural progenitor protein	0.441	1.732	Up
55779	CFAP44	cilia and flagella associated protein 44	1.997	2.275	Up
54847	SIDT1	SID1 transmembrane family member 1	1.039	12.35	Up
57577	CCDC191	coiled-coil domain containing 191	1.61	2.706	Up
1814	DRD3	dopamine receptor D3	2.791	2.07	Up
26137	ZBTB20	zinc finger and BTB domain containing 20	1.816	7.93	Up
1.02E+08	LOC101926886		2.317	1.897	Up
56983	POGLUT1	protein O-glucosyltransferase 1	0.445	1.472	Up
11167	FSTL1	follistatin like 1	2.361	1.718	Up
1475	CSTA	cystatin A	2.109	2.416	Up
54554	WDR5B	WD repeat domain 5B	0.961	6.136	Up
1.03E+08	WDR5B-DT	WDR5B divergent transcript	2.387	2.964	Up
165631	PARP15	poly(ADP-ribose) polymerase family member 15	1.339	4.17	Up
79663	HSPBAP1	HSPB1 associated protein 1	0.69	2.804	Up
84925	SLC49A4	solute carrier family 49 member 4	1.741	8.592	Up
1E+08	LINC02035	long intergenic non-protein coding RNA 2035	2.191	9.859	Up
8997	KALRN	kalirin RhoGEF kinase	2.386	6.706	Up
3693	ITGB5	integrin subunit beta 5	1.568	2.16	Up
7707	ZNF148	zinc finger protein 148	0.571	3.922	Up
54946	SLC41A3	solute carrier family 41 member 3	0.594	4.651	Up
80325	ABTB1	ankyrin repeat and BTB domain containing 1	2.366	57.246	Up
8971	H1-10	H1.10 linker histone	1.081	4.46	Up
339942	H1-10-AS1	H1-10 antisense RNA 1	1.328	2.53	Up
132241	RPL32P3	ribosomal protein L32 pseudogene 3	0.958	1.61	Up
55764	IFT122	intraflagellar transport 122	0.681	3.006	Up

23129	PLXND1	plexin D1	1.966	6.377	Up
28990	ASTE1	asteroid homolog 1	0.807	4.986	Up
79858	NEK11	NIMA related kinase 11	1.493	3.862	Up
152195	NUDT16L2P	nudix hydrolase 16 like 2, pseudogene	2.734	1.991	Up
131870	NUDT16	nudix hydrolase 16	0.696	2.276	Up
55	ACP3	acid phosphatase 3	3.793	2.382	Up
23317	DNAJC13	DnaJ heat shock protein family (Hsp40) member C13	0.517	1.624	Up
1.01E+08	NPHP3-ACAD11	NPHP3-ACAD11 readthrough (NMD candidate)	1.476	1.874	Up
84129	ACAD11	acyl-CoA dehydrogenase family member 11	1.568	2.468	Up
27031	NPHP3	nephrocystin 3	1.373	1.327	Up
51560	RAB6B	RAB6B, member RAS oncogene family	0.957	1.999	Up
6259	RYK	receptor like tyrosine kinase	0.391	2.108	Up
80254	CEP63	centrosomal protein 63	0.562	2.819	Up
5523	PPP2R3A	protein phosphatase 2 regulatory subunit B''alpha	1.023	3.753	Up
55167	MSL2	MSL complex subunit 2	0.695	2.651	Up
4690	NCK1	NCK adaptor protein 1	0.572	1.616	Up
347736	NME9	NME/NM23 family member 9	0.667	1.594	Up
22808	MRAS	muscle RAS oncogene homolog	1.541	1.875	Up
55186	SLC25A36	solute carrier family 25 member 36	0.666	5.732	Up
92370	PXYLP1	2-phosphoxylose phosphatase 1	1.356	8.439	Up
7029	TFDP2	transcription factor Dp-2	1.41	4.635	Up
7220	TRPC1	transient receptor potential cation channel subfamily C member 1	1.143	4.714	Up
285195	SLC9A9	solute carrier family 9 member A9	2.231	21.931	Up
205428	DIPK2A	divergent protein kinase domain 2A	1.14	5.592	Up
5352	PLOD2	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	1.285	1.574	Up
1359	CPA3	carboxypeptidase A3	2.818	4.92	Up
6596	HLTF	helicase like transcription factor	0.686	2.193	Up
84343	HPS3	HPS3 biogenesis of lysosomal organelles complex 2 subunit 1	1.025	4.802	Up
1356	CP	ceruloplasmin	1.129	3.442	Up
51122	COMMD2	COMM domain containing 2	0.433	1.813	Up
1.02E+08	ERICH6-AS1	ERICH6 antisense RNA 1	1.624	2.699	Up
4154	MBNL1	muscleblind like splicing regulator 1	0.308	1.847	Up
5912	RAP2B	RAP2B, member of RAS oncogene family	1.109	10.074	Up
4311	MME	membrane metalloendopeptidase	4.09	3.527	Up
730091	LINC00886	long intergenic non-protein coding RNA 886	1.88	1.75	Up
56925	LXN	latexin	1.255	5.851	Up
1E+08	TRIM59-IFT80	TRIM59-IFT80 protein	0.43	1.669	Up
57560	IFT80	intraflagellar transport 80	0.897	4.395	Up
286827	TRIM59	tripartite motif containing 59	0.282	1.672	Up
151742	PPM1L	protein phosphatase, Mg2+/Mn2+ dependent 1L	1.384	3.18	Up
5274	SERPINI1	serpin family I member 1	1.466	2.725	Up
26996	GPR160	G protein-coupled receptor 160	0.849	2.391	Up
80012	PHC3	polyhomeotic homolog 3	0.851	3.5	Up
6498	SKIL	SKI like proto-oncogene	1.284	1.834	Up
23043	TNIK	TRAF2 and NCK interacting kinase	1.066	4	Up
1.03E+08	LOC102724479	uncharacterized LOC102724479	1.871	3.086	Up
5337	PLD1	phospholipase D1	1.065	1.661	Up

64393	ZMAT3	zinc finger matrin-type 3	0.858	2.584	Up
5290	PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	0.878	3.928	Up
23200	ATP11B	ATPase phospholipid transporting 11B (putative)	0.702	4.33	Up
56922	MCCC1	methylcrotonyl-CoA carboxylase subunit 1	0.649	3.569	Up
1.08E+08	LOC107986162	uncharacterized LOC107986162	1.805	5.222	Up
54800	KLHL24	kelch like family member 24	2.288	27.371	Up
10057	ABCC5	ATP binding cassette subfamily C member 5	0.921	3.057	Up
1.05E+08	EIF2B5-DT	EIF2B5 divergent transcript	1.817	1.654	Up
2049	EPHB3	EPH receptor B3	2.838	2.741	Up
23355	VPS8	VPS8 subunit of CORVET complex	0.95	8.764	Up
1974	EIF4A2	eukaryotic translation initiation factor 4A2	0.776	3.561	Up
285386	TPRG1	tumor protein p63 regulated 1	1.774	3.498	Up
84239	ATP13A4	ATPase 13A4	1.36	1.386	Up
2814	GP5	glycoprotein V platelet	2.968	13.809	Up
1.01E+08	XXYLT1-AS2	XXYLT1 antisense RNA 2	2.104	1.375	Up
23527	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	0.524	2.219	Up
5504	PPP1R2	protein phosphatase 1 regulatory inhibitor subunit 2	0.761	2.502	Up
10188	TNK2	tyrosine kinase non receptor 2	0.828	1.637	Up
1.05E+08	LOC105374301		2.589	1.716	Up
165918	RNF168	ring finger protein 168	0.865	2.606	Up
170960	ZNF721	zinc finger protein 721	0.583	3.831	Up
84286	TMEM175	transmembrane protein 175	0.654	2.946	Up
92070	CTBP1-DT	CTBP1 divergent transcript	0.633	2.575	Up
152877	FAM53A	family with sequence similarity 53 member A	2.006	5.356	Up
10608	MXD4	MAX dimerization protein 4	1.715	21.196	Up
1.01E+08	MIR4800	microRNA 4800	1.836	3.191	Up
118	ADD1	adducin 1	0.4	4.974	Up
1.02E+08	LOC101928217	uncharacterized LOC101928217	1.854	1.471	Up
85013	TMEM128	transmembrane protein 128	0.472	1.699	Up
27065	NSG1	neuronal vesicle trafficking associated 1	2.675	1.74	Up
54360	CYTL1	cytokine like 1	4.062	2.724	Up
23324	MAN2B2	mannosidase alpha class 2B member 2	0.574	1.542	Up
93622	LOC93622	Morf4 family associated protein 1 like 1	1.501	10.614	Up
339988	LINC02481	long intergenic non-protein coding RNA 2481	4.546	14.534	Up
114932	MRFAP1L1	Morf4 family associated protein 1 like 1	1.048	6.377	Up
57533	TBC1D14	TBC1 domain family member 14	0.562	3.562	Up
1E+08	LOC100129931	uncharacterized LOC100129931	0.551	3.413	Up
257236	CCDC96	coiled-coil domain containing 96	1.004	1.657	Up
93624	TADA2B	transcriptional adaptor 2B	0.406	2.154	Up
84448	ABLIM2	actin binding LIM protein family member 2	1.142	3.253	Up
1.05E+08	LOC105369250	uncharacterized LOC105369250	1.678	2.319	Up
132864	CPEB2	cytoplasmic polyadenylation element binding protein 2	1.463	6.435	Up
285550	FAM200B	family with sequence similarity 200 member B	1.693	10.472	Up
83888	FGFBP2	fibroblast growth factor binding protein 2	2.981	1.868	Up

202018	TAPT1	transmembrane anterior posterior transformation 1	0.507	2.031	Up
27146	FAM184B	family with sequence similarity 184 member B	0.952	2.749	Up
54876	DCAF16	DDB1 and CUL4 associated factor 16	0.806	2.073	Up
254251	LCORL	ligand dependent nuclear receptor corepressor like	0.485	1.397	Up
285540	SEPSECS-AS1	SEPSECS antisense RNA 1 (head to head)	2.112	2.398	Up
29945	ANAPC4	anaphase promoting complex subunit 4	0.303	1.312	Up
389203	SMIM20	small integral membrane protein 20	0.791	1.586	Up
57620	STIM2	stromal interaction molecule 2	0.528	2.627	Up
768211	RELL1	RELT like 1	0.587	1.866	Up
1.06E+08	LINC01259	long intergenic non-protein coding RNA 1259	4.864	3.285	Up
1.03E+08	LOC102723415	replaced by ID 79667	4.953	3.793	Up
79667	KLF3-AS1	KLF3 antisense RNA 1	1.886	7.941	Up
51274	KLF3	KLF transcription factor 3	1.775	15.232	Up
7096	TLR1	toll like receptor 1	0.859	1.542	Up
10333	TLR6	toll like receptor 6	1.111	2	Up
11019	LIAS	lipoic acid synthetase	0.801	1.559	Up
1.01E+08	UGDH-AS1	UGDH antisense RNA 1	1.617	2.121	Up
201895	SMIM14	small integral membrane protein 14	3.211	33.181	Up
10396	ATP8A1	ATPase phospholipid transporting 8A1	1.892	10.398	Up
152518	NFXL1	nuclear transcription factor, X-box binding like 1	0.633	2.983	Up
7294	TXK	TXK tyrosine kinase	1.087	5.399	Up
326340	ZAR1	zygote arrest 1	0.735	4.143	Up
285527	FRYL	FRY like transcription coactivator	0.504	1.584	Up
132299	OCIAD2	OCIA domain containing 2	0.949	1.397	Up
26511	CHIC2	cysteine rich hydrophobic domain 2	1.017	4.063	Up
3815	KIT	KIT proto-oncogene, receptor tyrosine kinase	1.728	3.123	Up
55763	EXOC1	exocyst complex component 1	0.479	2.942	Up
1.05E+08	LOC105377663	uncharacterized LOC105377663	1.554	3.359	Up
132949	AASDH	aminoadipate-semialdehyde dehydrogenase	0.505	1.355	Up
5978	REST	RE1 silencing transcription factor	0.618	4.209	Up
1060	CENPC	centromere protein C	0.69	2.386	Up
550112	UBA6-DT	UBA6 divergent transcript	1.064	5.798	Up
27284	SULT1B1	sulfotransferase family 1B member 1	5.142	26.77	Up
1633	DCK	deoxycytidine kinase	0.89	3.479	Up
166824	RASSF6	Ras association domain family member 6	4.21	8.109	Up
6374	CXCL5	C-X-C motif chemokine ligand 5	2.829	2.325	Up
27163	NAAA	N-acylethanolamine acid amidase	1.34	8.121	Up
950	SCARB2	scavenger receptor class B member 2	1.172	10.306	Up
1.01E+08	FAM47E-STBD1	FAM47E-STBD1 readthrough	1.208	2.148	Up
8987	STBD1	starch binding domain 1	1.352	3.318	Up
10983	CCNI	cyclin I	0.922	3.863	Up
1.02E+08	LOC101928864	uncharacterized LOC101928864	1.645	3.014	Up
901	CCNG2	cyclin G2	1.493	9.502	Up
246175	CNOT6L	CCR4-NOT transcription complex subunit 6 like	1.597	13.877	Up
55589	BMP2K	BMP2 inducible kinase	0.569	1.584	Up
118429	ANTXR2	ANTXR cell adhesion molecule 2	0.857	2.324	Up

5593	PRKG2	protein kinase cGMP-dependent 2	3.629	10.274	Up
1.05E+08	LOC105377308	uncharacterized LOC105377308	2.704	3.008	Up
441027	TMEM150C	transmembrane protein 150C	3.008	2.37	Up
79725	THAP9	THAP domain containing 9	0.639	1.965	Up
51316	PLAC8	placenta associated 8	0.77	2.201	Up
113510	HELQ	helicase, POLQ like	0.628	3.216	Up
84142	ABRAXAS1	abraxas 1, BRCA1 A complex subunit	0.795	2.666	Up
84803	GPAT3	glycerol-3-phosphate acyltransferase 3	1.04	2.802	Up
1040	CDS1	CDP-diacylglycerol synthase 1	1.95	2.494	Up
23001	WDFY3	WD repeat and FYVE domain containing 3	1.702	1.464	Up
1.01E+08	AFF1-AS1	AFF1 antisense RNA 1	1.335	1.793	Up
51170	HSD17B11	hydroxysteroid 17-beta dehydrogenase 11	2.738	9.812	Up
8916	HERC3	HECT and RLD domain containing E3 ubiquitin protein ligase 3	0.754	5.753	Up
166815	TIGD2	tigger transposable element derived 2	0.641	1.948	Up
22915	MMRN1	multimerin 1	2.448	3.743	Up
1.01E+08	LOC100507053	uncharacterized LOC100507053	2.803	2.795	Up
5530	PPP3CA	protein phosphatase 3 catalytic subunit alpha	1.597	15.296	Up
90024	FLJ20021	uncharacterized LOC90024	2.623	7.576	Up
4126	MANBA	mannosidase beta	2.009	34.139	Up
93627	TBCK	TBC1 domain containing kinase	0.617	1.336	Up
113612	CYP2U1	cytochrome P450 family 2 subfamily U member 1	1.381	4.624	Up
51176	LEF1	lymphoid enhancer binding factor 1	1.115	3.285	Up
641518	LEF1-AS1	LEF1 antisense RNA 1	1.142	2.783	Up
6164	RPL34	ribosomal protein L34	0.888	1.324	Up
55013	MCUB	mitochondrial calcium uniporter dominant negative subunit beta	1.594	7.78	Up
839	CASP6	caspase 6	0.795	2.262	Up
1E+08	SNHG8	small nucleolar RNA host gene 8	0.811	2.445	Up
54532	USP53	ubiquitin specific peptidase 53	1.086	2.007	Up
8654	PDE5A	phosphodiesterase 5A	0.867	1.961	Up
84162	BLTP1	bridge-like lipid transfer protein family member 1	1.238	2.2	Up
166379	BBS12	Bardet-Biedl syndrome 12	0.769	2.318	Up
57182	ANKRD50	ankyrin repeat domain containing 50	0.818	1.314	Up
256471	MFSD8	major facilitator superfamily domain containing 8	0.51	2.756	Up
79960	JADE1	jade family PHD finger 1	1.224	8.028	Up
1998	ELF2	E74 like ETS transcription factor 2	1.121	7.927	Up
83452	RAB33B	RAB33B, member RAS oncogene family	0.54	3.504	Up
55534	MAML3	mastermind like transcriptional coactivator 3	2.396	5.827	Up
1E+08	SCOC-AS1	SCOC antisense RNA 1	1.17	1.651	Up
255520	ELMOD2	ELMO domain containing 2	0.692	1.86	Up
23158	TBC1D9	TBC1 domain family member 9	1.607	2.107	Up
57484	RNF150	ring finger protein 150	4.415	2.39	Up
1.05E+08	LOC105377623	uncharacterized LOC105377623	1.357	2.108	Up
2549	GAB1	GRB2 associated binding protein 1	1.79	2.517	Up
4306	NR3C2	nuclear receptor subfamily 3 group C member 2	1.93	25.526	Up
1.08E+08	LOC107986195	uncharacterized LOC107986195	2.563	3.377	Up

1.08E+08	LOC107986196	uncharacterized LOC107986196	2.078	5.249	Up
201799	TMEM154	transmembrane protein 154	1.905	11.976	Up
23321	TRIM2	tripartite motif containing 2	1.835	3.102	Up
285533	RNF175	ring finger protein 175	2.678	4.906	Up
2982	GUCY1A1	guanylate cyclase 1 soluble subunit alpha 1	1.139	1.66	Up
1519	CTSO	cathepsin O	1.073	3.819	Up
56034	PDGFC	platelet derived growth factor C	2.579	2.768	Up
51313	GASK1B	golgi associated kinase 1B	4.216	2.927	Up
55016	MARCHF1	membrane associated ring-CH-type finger 1	1.795	2.09	Up
1182	CLCN3	chloride voltage-gated channel 3	0.685	1.483	Up
51809	GALNT7	polypeptide N-acetylgalactosaminyltransferase 7	0.579	2.567	Up
3148	HMGB2	high mobility group box 2	0.825	7.965	Up
1.05E+08	SAP30-DT	SAP30 divergent transcript	1.369	1.982	Up
80817	CEP44	centrosomal protein 44	0.516	2.313	Up
55602	CDKN2AIP	CDKN2A interacting protein	0.889	4.733	Up
3622	ING2	inhibitor of growth family member 2	0.689	2.496	Up
60684	TRAPPC11	trafficking protein particle complex subunit 11	0.432	1.704	Up
55325	UFSP2	UFM1 specific peptidase 2	0.509	2.857	Up
7098	TLR3	toll like receptor 3	2.488	4.473	Up
285440	CYP4V2	cytochrome P450 family 4 subfamily V member 2	1.497	9.521	Up
3818	KLKB1	kallikrein B1	3.25	2.715	Up
133957	CCDC127	coiled-coil domain containing 127	0.334	1.599	Up
1.02E+08	PDCD6-DT	PDCD6 divergent transcript	2.483	1.613	Up
1.02E+08	LOC101929003	uncharacterized LOC101929003	2.527	4.205	Up
1.02E+08	LOC101929200	uncharacterized LOC101929200	0.901	1.875	Up
11044	TENT4A	terminal nucleotidyltransferase 4A	0.425	1.68	Up
9037	SEMA5A	semaphorin 5A	1.443	1.553	Up
1.01E+08	SNHG18	small nucleolar RNA host gene 18	2.006	1.906	Up
54491	OTULINL	OTU deubiquitinase with linear linkage specificity like	1.426	13.538	Up
56172	ANKH	ANKH inorganic pyrophosphate transport regulator	1.066	7.495	Up
1E+08	LOC100130744	uncharacterized LOC100130744	0.791	5.633	Up
54463	RETREG1	reticulophagy regulator 1	1.478	13.937	Up
1.02E+08	RETREG1-AS1	RETREG1 antisense RNA 1	2.218	6.606	Up
23037	PDZD2	PDZ domain containing 2	1.498	2.051	Up
54545	MTMR12	myotubularin related protein 12	0.461	2.4	Up
4883	NPR3	natriuretic peptide receptor 3	2.137	3.959	Up
23600	AMACR	alpha-methylacyl-CoA racemase	0.747	1.756	Up
1.01E+08	C1QTNF3-AMACR	C1QTNF3-AMACR readthrough (NMD candidate)	0.775	2.249	Up
1.02E+08	TTC23L-AS1	TTC23L antisense RNA 1	2.049	3.324	Up
1.05E+08	LOC105374724	uncharacterized LOC105374724	1.628	5.955	Up
3575	IL7R	interleukin 7 receptor	3.495	26.592	Up
646719	NIPBL-DT	NIPBL divergent transcript	0.657	2.485	Up

9180	OSMR	oncostatin M receptor	0.726	1.311	Up
253260	RICTOR	RPTOR independent companion of MTOR complex 2	0.906	4.017	Up
2533	FYB1	FYN binding protein 1	2.009	16.68	Up
1601	DAB2	DAB adaptor protein 2	1.86	2.714	Up
6167	RPL37	ribosomal protein L37	0.785	1.326	Up
84674	CARD6	caspase recruitment domain family member 6	0.937	3.077	Up
1.05E+08	LOC105374746	uncharacterized LOC105374746	1.792	5.475	Up
648987	ANXA2R-OT1	ANXA2R overlapping transcript	0.695	2.906	Up
1.05E+08	LOC105374748	uncharacterized LOC105374748	1.206	2.979	Up
389289	ANXA2R	annexin A2 receptor	1.958	14.123	Up
153684	ANXA2R-AS1	ANXA2R antisense RNA 1	1.453	2.803	Up
1E+08	LOC100132356	uncharacterized LOC100132356	1.654	2.158	Up
1.01E+08	LOC100506639	uncharacterized LOC100506639	1.384	2.103	Up
7690	ZNF131	zinc finger protein 131	0.497	2.421	Up
56477	CCL28	C-C motif chemokine ligand 28	0.609	2.438	Up
1.01E+08	NNT-AS1	NNT antisense RNA 1	0.73	2.649	Up
23530	NNT	nicotinamide nucleotide transhydrogenase	0.674	2.605	Up
133418	EMB	embigin	1.274	7.36	Up
79668	PARP8	poly(ADP-ribose) polymerase family member 8	1.179	6.108	Up
10468	FST	follistatin	3.075	1.687	Up
54622	ARL15	ADP ribosylation factor like GTPase 15	0.656	2.361	Up
112574	SNX18	sorting nexin 18	1.146	12.008	Up
11082	ESM1	endothelial cell specific molecule 1	2.919	2.601	Up
3572	IL6ST	interleukin 6 cytokine family signal transducer	0.575	1.536	Up
79722	ANKRD55	ankyrin repeat domain 55	3.875	14.204	Up
1.02E+08	LOC101928419	uncharacterized LOC101928419	4.266	3.689	Up
4214	MAP3K1	mitogen-activated protein kinase kinase kinase 1	1.687	40.97	Up
1.05E+08	LOC105378980	uncharacterized LOC105378980	1.788	21.074	Up
202309	GAPT	GRB2 binding adaptor protein, transmembrane	3.309	5.254	Up
5144	PDE4D	phosphodiesterase 4D	0.8	2.777	Up
11174	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif 6	3.28	6.266	Up
64105	CENPK	centromere protein K	2.049	13.409	Up
23398	PPWD1	peptidylprolyl isomerase domain and WD repeat containing 1	0.423	1.749	Up
373	TRIM23	tripartite motif containing 23	0.955	5.75	Up
54557	SGTB	small glutamine rich tetratricopeptide repeat co-chaperone beta	1.097	3.738	Up
55914	ERBIN	erbb2 interacting protein	0.81	6.611	Up
4064	CD180	CD180 molecule	4.152	2.608	Up
5295	PIK3R1	phosphoinositide-3-kinase regulatory subunit 1	1.46	25.796	Up
1.12E+08	LOC112267941		1.484	1.871	Up
11042	GUSBP15	GUSB pseudogene 15	1.471	1.863	Up
1E+08	GUSBP17	GUSB pseudogene 17	1.544	1.327	Up
167465	ZNF366	zinc finger protein 366	1.586	1.357	Up

115548	FCHO2	FCH and mu domain containing endocytic adaptor 2	1.692	5.205	Up
57763	ANKRA2	ankyrin repeat family A member 2	0.855	5.377	Up
51301	GCNT4	glucosaminyl (N-acetyl) transferase 4	2.076	15.256	Up
10087	CERT1	ceramide transporter 1	0.435	1.776	Up
10788	IQGAP2	IQ motif containing GTPase activating protein 2	0.723	1.315	Up
2150	F2RL1	F2R like trypsin receptor 1	0.671	2.626	Up
1393	CRHBP	corticotropin releasing hormone binding protein	1.809	1.326	Up
728769	SCAMP1-AS1	SCAMP1 antisense RNA 1	1.35	4.515	Up
9522	SCAMP1	secretory carrier membrane protein 1	0.987	6.602	Up
133746	JMY	junction mediating and regulatory protein, p53 cofactor	1.011	3.411	Up
167153	TENT2	terminal nucleotidyltransferase 2	0.571	2.51	Up
345778	MTX3	metaxin 3	0.734	2.057	Up
7060	THBS4	thrombospondin 4	1.623	1.446	Up
1.02E+08	THBS4-AS1	THBS4 antisense RNA 1	2.582	3.487	Up
256987	SERINC5	serine incorporator 5	1.745	22.998	Up
1.03E+08	RASGRF2-AS1	RASGRF2 antisense RNA 1	1.782	2.762	Up
5924	RASGRF2	Ras protein specific guanine nucleotide releasing factor 2	1.841	11.789	Up
1160	CKMT2	creatine kinase, mitochondrial 2	1.824	11.962	Up
1E+08	CKMT2-AS1	CKMT2 antisense RNA 1	1.466	7.618	Up
23635	SSBP2	single stranded DNA binding protein 2	1.405	2.911	Up
644285	LOC644285	uncharacterized LOC644285	2.436	1.367	Up
4208	MEF2C	myocyte enhancer factor 2C	1.047	1.747	Up
153364	MBLAC2	metallo-beta-lactamase domain containing 2	1.492	7.838	Up
57561	ARRDC3	arrestin domain containing 3	1.187	2.861	Up
83989	FAM172A	family with sequence similarity 172 member A	0.733	4.593	Up
79772	MCTP1	multiple C2 and transmembrane domain containing 1	1.318	2.49	Up
153642	ARSK	arylsulfatase family member K	1.123	3.317	Up
285601	GPR150	G protein-coupled receptor 150	1.553	2.882	Up
2745	GLRX	glutaredoxin	0.712	2.507	Up
1.03E+08	LOC102724720	uncharacterized LOC102724720	1.764	1.84	Up
4012	LNPEP	leucyl and cystinyl aminopeptidase	0.452	1.389	Up
285704	RGMB	repulsive guidance molecule BMP co-receptor b	1.622	14.833	Up
64839	FBXL17	F-box and leucine rich repeat protein 17	0.924	4.694	Up
9867	PJA2	praja ring finger ubiquitin ligase 2	0.437	2.837	Up
4124	MAN2A1	mannosidase alpha class 2A member 1	1.028	7.5	Up
814	CAMK4	calcium/calmodulin dependent protein kinase IV	1.348	4.592	Up
114915	EPB41L4A-AS1	EPB41L4A antisense RNA 1	1.768	4.799	Up
153733	CCDC112	coiled-coil domain containing 112	1.442	4.842	Up
153241	CEP120	centrosomal protein 120	1.021	4.63	Up
501	ALDH7A1	aldehyde dehydrogenase 7 family member A1	2.506	2.514	Up
1.05E+08	LOC105379198	uncharacterized LOC105379198	1.757	1.475	Up
56990	CDC42SE2	CDC42 small effector 2	0.694	4.556	Up
1.05E+08	LOC105379173	uncharacterized LOC105379173	0.802	4.768	Up
96459	FNIP1	folliculin interacting protein 1	0.567	3.661	Up
23305	ACSL6	acyl-CoA synthetase long chain family member 6	3.792	24.174	Up

1.05E+08	LOC105379185	replaced by ID 7416	3.072	4.138	Up
6932	TCF7	transcription factor 7	1.96	24.172	Up
23338	JADE2	jade family PHD finger 2	0.871	3.603	Up
819	CAMLG	calcium modulating ligand	0.838	2.933	Up
140947	DCANP1	dendritic cell associated nuclear protein 1	3.183	4.738	Up
497189	TIFAB	TIFA inhibitor	2.768	4.807	Up
7045	TGFBI	transforming growth factor beta induced	2.833	5.704	Up
26249	KLHL3	kelch like family member 3	4.488	43.586	Up
27039	PKD2L2	polycystin 2 like 2, transient receptor potential cation channel	0.573	1.965	Up
51306	FAM13B	family with sequence similarity 13 member B	0.423	1.619	Up
51247	PAIP2	poly(A) binding protein interacting protein 2	0.551	1.324	Up
51523	CXXC5	CXXC finger protein 5	2.157	9.561	Up
1.01E+08	MALINC1	mitosis associated long intergenic non-coding RNA 1	2.618	25.796	Up
5813	PURA	purine rich element binding protein A	0.639	1.843	Up
492311	IGIP	IgA inducing protein	1.316	3.286	Up
929	CD14	CD14 molecule	2.466	5.083	Up
23438	HARS2	histidyl-tRNA synthetase 2, mitochondrial	0.629	5.444	Up
2908	NR3C1	nuclear receptor subfamily 3 group C member 1	1.301	6.207	Up
154	ADRB2	adrenoceptor beta 2	2.094	2.708	Up
134266	GRPEL2	GrpE like 2, mitochondrial	0.37	1.709	Up
78991	PCYOX1L	prenylcysteine oxidase 1 like	1.02	5.727	Up
1436	CSF1R	colony stimulating factor 1 receptor	2.753	1.965	Up
309	ANXA6	annexin A6	0.481	1.416	Up
26112	CCDC69	coiled-coil domain containing 69	0.566	2.904	Up
79685	SAP30L	SAP30 like	1.28	6.939	Up
9337	CNOT8	CCR4-NOT transcription complex subunit 8	0.804	3.377	Up
153743	PPP1R2B	PPP1R2 family member B	0.68	1.559	Up
26762	HAVCR1	hepatitis A virus cellular receptor 1	5.697	8.846	Up
26999	CYFIP2	cytoplasmic FMR1 interacting protein 2	0.674	5.106	Up
1.05E+08	LOC105377675	uncharacterized LOC105377675	0.856	2.82	Up
114825	PWWP2A	PWWP domain containing 2A	0.499	3.595	Up
79616	CCNJL	cyclin J like	2.751	1.747	Up
63920	FAM200C	family with sequence similarity 200 member C	1.477	1.824	Up
10569	SLU7	SLU7 homolog, splicing factor	0.454	1.624	Up
1.05E+08	LOC105377700	uncharacterized LOC105377700	0.809	3.334	Up
900	CCNG1	cyclin G1	0.865	2.962	Up
6793	STK10	serine/threonine kinase 10	0.936	4.099	Up
54492	NEURL1B	neuralized E3 ubiquitin protein ligase 1B	3.367	4.179	Up
1.05E+08	LOC105377730	uncharacterized LOC105377730	4.061	5.307	Up
57222	ERGIC1	endoplasmic reticulum-golgi intermediate compartment 1	0.429	1.974	Up
153222	CREBRF	CREB3 regulatory factor	0.993	7.825	Up
1.08E+08	LOC107986483		2.645	2.424	Up
1.05E+08	LOC105377746		3.411	4.644	Up
1.01E+08	LOC100507387	replaced by ID 202134	2.074	1.62	Up

22838	RNF44	ring finger protein 44	1.27	7.328	Up
1.12E+08	LOC112267951		2.486	2.632	Up
53917	RAB24	RAB24, member RAS oncogene family	0.773	5.779	Up
10636	RGS14	regulator of G protein signaling 14	0.432	1.349	Up
340037	PRR7-AS1	PRR7 antisense RNA 1	2.248	2.219	Up
79930	DOK3	docking protein 3	1.268	1.34	Up
285596	FAM153A	family with sequence similarity 153 member A	1.854	2.246	Up
1.08E+08	LOC107986490		1.801	1.359	Up
57396	CLK4	CDC like kinase 4	1.403	5.47	Up
6940	ZNF354A	zinc finger protein 354A	0.423	1.597	Up
80108	ZFP2	ZFP2 zinc finger protein	1.406	1.65	Up
30832	ZNF354C	zinc finger protein 354C	0.427	2.476	Up
9945	GFPT2	glutamine-fructose-6-phosphate transaminase 2	2.504	2.988	Up
4245	MGAT1	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	0.439	3.456	Up
1.01E+08	HEIH	hepatocellular carcinoma up-regulated EZH2-associated long non-coding RNA	0.98	6.565	Up
729678	LINC00847	long intergenic non-protein coding RNA 847	1.849	25.158	Up
643836	ZFP62	ZFP62 zinc finger protein	1.009	7.648	Up
1.05E+08	TRIM7-AS2	TRIM7 antisense RNA 2	1.637	1.359	Up
81786	TRIM7	tripartite motif containing 7	1.573	3.721	Up
1.02E+08	CTC-338M12.4	uncharacterized LOC101928649	1.308	4.663	Up
84851	TRIM52	tripartite motif containing 52	1.117	20.264	Up
1.01E+08	TRIM52-AS1	TRIM52 antisense RNA 1 (head to head)	1.097	2.733	Up
1.01E+08	GMDS-DT	GMDS divergent transcript	1.381	1.958	Up
1.01E+08	MIR4645	microRNA 4645	2.69	2.241	Up
221756	SERPINB9P1	serpin family B member 9 pseudogene 1	1.938	7.511	Up
401232	LINC01011	long intergenic non-protein coding RNA 1011	3.641	15.759	Up
1.05E+08	NQO2-AS1	NQO2 antisense RNA 1	2.322	1.699	Up
63027	SLC22A23	solute carrier family 22 member 23	1.773	6.923	Up
643327	LOC643327	uncharacterized LOC643327	1.796	1.772	Up
404220	TEX56P	testis expressed 56, pseudogene	0.775	3.599	Up
10455	ECI2	enoyl-CoA delta isomerase 2	0.636	3.315	Up
1.08E+08	LOC107986515		3.291	3.027	Up
6239	RREB1	ras responsive element binding protein 1	1.018	1.706	Up
63915	BLOC1S5	biogenesis of lysosomal organelles complex 1 subunit 5	0.758	1.961	Up
51000	SLC35B3	solute carrier family 35 member B3	0.899	3.318	Up
1E+08	TMEM170B	transmembrane protein 170B	1.002	2.139	Up
221692	PHACTR1	phosphatase and actin regulator 1	1.753	2.933	Up
23408	SIRT5	sirtuin 5	0.747	4.429	Up
29116	MYLIP	myosin regulatory light chain interacting protein	1.413	8.576	Up
51439	FAM8A1	family with sequence similarity 8 member A1	2.624	33.587	Up
63971	KIF13A	kinesin family member 13A	1.325	1.588	Up
7913	DEK	DEK proto-oncogene	0.574	6.026	Up

255488	RNF144B	ring finger protein 144B	1.704	2.718	Up
154141	MBOAT1	membrane bound O-acyltransferase domain containing 1	0.945	2.639	Up
729177	NBAT1	neuroblastoma associated transcript 1	6.201	2.065	Up
7915	ALDH5A1	aldehyde dehydrogenase 5 family member A1	0.537	1.325	Up
9750	RIPOR2	RHO family interacting cell polarization regulator 2	1.831	19.858	Up
1.05E+08	LOC105374981	uncharacterized LOC105374981	4.04	12.331	Up
3006	H1-2	H1.2 linker histone, cluster member	1.749	4.873	Up
3077	HFE	homeostatic iron regulator	0.92	1.636	Up
8334	H2AC6	H2A clustered histone 6	2.289	4.703	Up
3017	H2BC5	H2B clustered histone 5	1.509	2.168	Up
11118	BTN3A2	butyrophilin subfamily 3 member A2	1.469	22.281	Up
11119	BTN3A1	butyrophilin subfamily 3 member A1	1.474	14.828	Up
10384	BTN3A3	butyrophilin subfamily 3 member A3	1.235	10.931	Up
285819	LOC285819	uncharacterized LOC285819	2.416	2.115	Up
85236	H2BC12	H2B clustered histone 12	0.943	2.842	Up
7754	ZNF204P	zinc finger protein 204, pseudogene	2.122	9.222	Up
7738	ZNF184	zinc finger protein 184	0.637	3.095	Up
1E+08	ZSCAN16-AS1	ZSCAN16 antisense RNA 1	1.089	3.022	Up
80345	ZSCAN16	zinc finger and SCAN domain containing 16	0.827	2.999	Up
7745	ZKSCAN8	zinc finger with KRAB and SCAN domains 8	0.992	7.811	Up
387032	ZKSCAN4	zinc finger with KRAB and SCAN domains 4	1.38	11.362	Up
7741	ZSCAN26	zinc finger and SCAN domain containing 26	1.093	9.638	Up
80317	ZKSCAN3	zinc finger with KRAB and SCAN domains 3	1.906	11.847	Up
1.05E+08	LOC105374997	replaced by ID 222696	1.675	2.617	Up
222696	ZSCAN23	zinc finger and SCAN domain containing 23	1.749	2.079	Up
2550	GABBR1	gamma-aminobutyric acid type B receptor subunit 1	1.391	1.618	Up
285830	HLA-F-AS1	HLA-F antisense RNA 1	0.766	1.803	Up
80862	POLR1HASP	POLR1H antisense, pseudogene	1.287	2.976	Up
414777	HCG18	HLA complex group 18	0.327	1.878	Up
56658	TRIM39	tripartite motif containing 39	0.659	4.988	Up
3133	HLA-E	major histocompatibility complex, class I, E	1.036	7.381	Up
401247	LINC00243	long intergenic non-protein coding RNA 243	2.76	8.881	Up
780	DDR1	discoidin domain receptor tyrosine kinase 1	0.567	1.339	Up
1.02E+08	MICA-AS1	MICA antisense RNA 1	2.309	3.284	Up
352961	HCG26	HLA complex group 26	1.039	4.001	Up
1.03E+08	MICB-DT	MICB divergent transcript	0.854	1.379	Up
534	ATP6V1G2	ATPase H+ transporting V1 subunit G2	2.219	2.646	Up
4795	NFKBIL1	NFKB inhibitor like 1	0.623	3.1	Up
57827	C6orf47	chromosome 6 open reading frame 47	0.326	1.395	Up
80741	LY6G5C	lymphocyte antigen 6 family member G5C	1.054	3.043	Up
80739	MPIG6B	megakaryocyte and platelet inhibitory receptor G6b	2.681	1.591	Up
3305	HSPA1L	heat shock protein family A (Hsp70) member 1 like	1.001	3.168	Up
50854	SNHG32	small nucleolar RNA host gene 32	1.733	7.193	Up
10919	EHMT2	euchromatic histone lysine methyltransferase 2	0.394	1.59	Up
7146	TNXA	tenascin XA (pseudogene)	2.908	2.073	Up
7148	TNXB	tenascin XB	2.653	3.634	Up
80863	PRRT1	proline rich transmembrane protein 1	2.604	9.045	Up
10554	AGPAT1	1-acylglycerol-3-phosphate O-acyltransferase 1	0.332	1.792	Up

177	AGER	advanced glycosylation end-product specific receptor	2.009	3.126	Up
63940	GPSM3	G protein signaling modulator 3	1.372	13.484	Up
3122	HLA-DRA	major histocompatibility complex, class II, DR alpha	1.405	1.924	Up
3127	HLA-DRB5	major histocompatibility complex, class II, DR beta 5	1.357	1.423	Up
3128	HLA-DRB6	major histocompatibility complex, class II, DR beta 6 (pseudogene)	1.363	1.624	Up
3123	HLA-DRB1	major histocompatibility complex, class II, DR beta 1	1.271	2.386	Up
3109	HLA-DMB	major histocompatibility complex, class II, DM beta	2.074	4.809	Up
3108	HLA-DMA	major histocompatibility complex, class II, DM alpha	1.205	2.168	Up
3111	HLA-DOA	major histocompatibility complex, class II, DO alpha	1.992	2.421	Up
3113	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1	1.523	2.273	Up
3115	HLA-DPB1	major histocompatibility complex, class II, DP beta 1	2.155	4.112	Up
8705	B3GALT4	beta-1,3-galactosyltransferase 4	1.54	15.246	Up
5863	RGL2	ral guanine nucleotide dissociation stimulator like 2	0.989	3.969	Up
9278	ZBTB22	zinc finger and BTB domain containing 22	0.616	2.396	Up
51596	CUTA	cutA divalent cation tolerance homolog	1.025	2.891	Up
8831	SYNGAP1	synaptic Ras GTPase activating protein 1	1.424	4.132	Up
221491	SMIM29	small integral membrane protein 29	0.571	2.286	Up
29993	PACSIN1	protein kinase C and casein kinase substrate in neurons 1	3.395	4.133	Up
50619	DEF6	DEF6 guanine nucleotide exchange factor	0.975	6.684	Up
5467	PPARD	peroxisome proliferator activated receptor delta	0.977	7.93	Up
221481	ARMC12	armadillo repeat containing 12	1.623	1.445	Up
1432	MAPK14	mitogen-activated protein kinase 14	0.598	1.859	Up
11329	STK38	serine/threonine kinase 38	2.524	28.323	Up
221477	C6orf89	chromosome 6 open reading frame 89	0.697	2.812	Up
221476	PI16	peptidase inhibitor 16	3.359	5.549	Up
1.01E+08	LINC02520	long intergenic non-protein coding RNA 2520	2.631	6.281	Up
60685	ZFAND3	zinc finger AN1-type containing 3	0.503	2.511	Up
114781	BTBD9	BTB domain containing 9	0.536	2.632	Up
55776	SAYSD1	SAYSVFN motif domain containing 1	0.535	1.343	Up
222643	UNC5CL	unc-5 family C-terminal like	1.812	2.045	Up
10930	APOBEC2	apolipoprotein B mRNA editing enzyme catalytic subunit 2	1.915	2.139	Up
221443	OARD1	O-acyl-ADP-ribose deacylase 1	0.876	5.353	Up
4800	NFYA	nuclear transcription factor Y subunit alpha	0.289	1.301	Up
221442	ADCY10P1	ADCY10 pseudogene 1	1.803	2.084	Up
340205	TREML1	triggering receptor expressed on myeloid cells like 1	2.029	1.477	Up
54209	TREM2	triggering receptor expressed on myeloid cells 2	4.337	4.213	Up
6903	TBCC	tubulin folding cofactor C	0.751	5.539	Up
23506	BICRAL	BICRA like chromatin remodeling complex associated protein	1.131	10.023	Up
441150	C6orf226	chromosome 6 open reading frame 226	0.73	1.919	Up
10695	CNPY3	canopy FGF signaling regulator 3	0.871	7.711	Up
1.07E+08	CNPY3-GNMT	CNPY3-GNMT readthrough	0.888	8.06	Up
5190	PEX6	peroxisomal biogenesis factor 6	1.049	10.64	Up
116138	KLHDC3	kelch domain containing 3	0.758	1.708	Up
89953	KLC4	kinesin light chain 4	1.203	5.216	Up
1.12E+08	KLC4-AS1	KLC4 antisense RNA 1	1.246	1.661	Up
23113	CUL9	cullin 9	0.662	2.701	Up
24149	ZNF318	zinc finger protein 318	1.325	6.911	Up

25844	YIPF3	Yip1 domain family member 3	0.287	1.352	Up
53405	CLIC5	chloride intracellular channel 5	1.473	4.951	Up
59084	ENPP5	ectonucleotide pyrophosphatase/phosphodiesterase family member 5	2.799	3.601	Up
221400	TDRD6	tudor domain containing 6	2.956	4.332	Up
7941	PLA2G7	phospholipase A2 group VII	2.984	6.027	Up
85315	PAQR8	progestin and adipoQ receptor family member 8	2.464	11.478	Up
114327	EFHC1	EF-hand domain containing 1	1.9	4.927	Up
9697	TRAM2	translocation associated membrane protein 2	1.202	4.398	Up
22858	CILK1	ciliogenesis associated kinase 1	1.183	6.612	Up
26268	FBXO9	F-box protein 9	0.462	3.499	Up
647190	RPS16P5	ribosomal protein S16 pseudogene 5	4.434	2.889	Up
375513	GUSBP4	GUSB pseudogene 4	1.749	2.218	Up
23469	PHF3	PHD finger protein 3	1.045	2.401	Up
346007	EYS	eyes shut homolog	2.136	2.713	Up
55788	LMBRD1	LMBR1 domain containing 1	0.962	5.573	Up
57579	FAM135A	family with sequence similarity 135 member A	0.499	1.818	Up
79627	OGFRL1	opioid growth factor receptor like 1	1.568	9.523	Up
26503	SLC17A5	solute carrier family 17 member 5	0.766	4.486	Up
83699	SH3BGRL2	SH3 domain binding glutamate rich protein like 2	1.472	1.793	Up
55603	TENT5A	terminal nucleotidyltransferase 5A	1.057	4.419	Up
23033	DOP1A	DOP1 leucine zipper like protein A	0.862	4.19	Up
112611	RWDD2A	RWD domain containing 2A	1.806	10.53	Up
167681	PRSS35	serine protease 35	4.019	4.384	Up
4907	NT5E	5'-nucleotidase ecto	1.746	2.002	Up
10559	SLC35A1	solute carrier family 35 member A1	0.93	2.395	Up
10957	PNRC1	proline rich nuclear receptor coactivator 1	0.885	10.22	Up
9994	CASP8AP2	caspase 8 associated protein 2	1.141	4.434	Up
60468	BACH2	BTB domain and CNC homolog 2	1.137	2.332	Up
1.02E+08	MANEA-DT	MANEA divergent transcript	2.247	2.76	Up
23376	UFL1	UFM1 specific ligase 1	0.831	7.297	Up
114792	KLHL32	kelch like family member 32	1.21	5.733	Up
26235	FBXL4	F-box and leucine rich repeat protein 4	0.956	3.064	Up
1.02E+08	PNISR-AS1	PNISR antisense RNA 1	0.829	2.581	Up
1E+08	TSTD3	thiosulfate sulfurtransferase like domain containing 3	0.801	2.596	Up
256380	SCML4	Scm polycomb group protein like 4	2.839	15.256	Up
2309	FOXO3	forkhead box O3	0.914	4.649	Up
27244	SESN1	sestrin 1	1.26	3.502	Up
9841	ZBTB24	zinc finger and BTB domain containing 24	0.389	1.318	Up
221264	AK9	adenylate kinase 9	0.927	2.955	Up
23097	CDK19	cyclin dependent kinase 19	1.323	14.5	Up
117247	SLC16A10	solute carrier family 16 member 10	2.587	6.438	Up
1.08E+08	MFSD4B-DT	MFSD4B divergent transcript	2.921	2.944	Up
643749	TRAF3IP2-AS1	TRAF3IP2 antisense RNA 1	0.61	1.741	Up
2534	FYN	FYN proto-oncogene, Src family tyrosine kinase	0.982	7.888	Up
1.05E+08	LOC105377945	uncharacterized LOC105377945	1.115	11.539	Up
1.12E+08	LOC112267965		1.38	1.655	Up

3841	KPNA5	karyopherin subunit alpha 5	0.698	3.956	Up
221322	TBC1D32	TBC1 domain family member 32	0.595	1.305	Up
57515	SERINC1	serine incorporator 1	0.82	5.186	Up
5570	PKIB	cAMP-dependent protein kinase inhibitor beta	3.45	4.727	Up
23493	HEY2	hes related family bHLH transcription factor with YRPW motif 2	3.197	1.824	Up
1.12E+08	LOC112267973	replaced by ID 387357	1.995	2.246	Up
387357	THEMIS	thymocyte selection associated	0.699	1.524	Up
154075	SAMD3	sterile alpha motif domain containing 3	2.138	6.833	Up
9465	AKAP7	A-kinase anchoring protein 7	2.268	6.559	Up
8417	STX7	syntaxin 7	0.74	2.716	Up
8875	VNN2	vanin 2	3.115	10.055	Up
116843	SLC18B1	solute carrier family 18 member B1	2.064	15.114	Up
154091	SLC2A12	solute carrier family 2 member 12	1.015	1.33	Up
27115	PDE7B	phosphodiesterase 7B	3.337	8.328	Up
1.02E+08	LOC101928373	uncharacterized LOC101928373	2.29	4.411	Up
1E+08	WAKMAR2	wound and keratinocyte migration associated lncRNA 2	1.527	2.941	Up
1.08E+08	LOC107986649		1.942	8.335	Up
64065	PERP	p53 apoptosis effector related to PMP22	0.923	1.552	Up
23593	HEBP2	heme binding protein 2	0.721	8.94	Up
25901	CCDC28A	coiled-coil domain containing 28A	1.359	5.02	Up
51696	HECA	hdc homolog, cell cycle regulator	0.611	2.868	Up
167838	TXLNB	taxilin beta	1.769	2.118	Up
10370	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2	1.936	24.167	Up
9749	PHACTR2	phosphatase and actin regulator 2	0.895	1.448	Up
7402	UTRN	utrophin	2.104	6.382	Up
1.01E+08	EPM2A-DT	EPM2A divergent transcript	0.529	1.385	Up
134957	STXBP5	syntaxin binding protein 5	0.534	2.533	Up
57621	ZBTB2	zinc finger and BTB domain containing 2	0.497	2.091	Up
2099	ESR1	estrogen receptor 1	1.261	1.793	Up
23345	SYNE1	spectrin repeat containing nuclear envelope protein 1	1.678	23.669	Up
80177	MYCT1	MYC target 1	2.428	2.882	Up
4988	OPRM1	opioid receptor mu 1	1.175	2.31	Up
26034	IPCEF1	interaction protein for cytohesin exchange factors 1	1.296	8.112	Up
57492	ARID1B	AT-rich interaction domain 1B	0.647	1.373	Up
729515	TMEM242	transmembrane protein 242	0.309	1.419	Up
56895	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4	0.762	1.31	Up
5071	PRKN	parkin RBR E3 ubiquitin protein ligase	1.944	2.476	Up
1E+08	LOC100289495	uncharacterized LOC100289495	1.944	2.077	Up
8635	RNASET2	ribonuclease T2	1.414	9.118	Up
83887	TTLL2	tubulin tyrosine ligase like 2	3.715	2.585	Up
253769	WDR27	WD repeat domain 27	1.188	1.787	Up
55274	PHF10	PHD finger protein 10	0.25	1.452	Up
401289	LINC01624	long intergenic non-protein coding RNA 1624	2.477	5.343	Up
84498	FAM120B	family with sequence similarity 120B	0.477	1.422	Up
56975	FAM20C	FAM20C golgi associated secretory pathway kinase	2.996	4.263	Up

23353	SUN1	Sad1 and UNC84 domain containing 1	0.763	6.619	Up
90639	COX19	cytochrome c oxidase assembly factor COX19	0.756	2.473	Up
115330	GPR146	G protein-coupled receptor 146	3.133	32.365	Up
114796	PSMG3-AS1	PSMG3 antisense RNA 1 (head to head)	0.808	4.169	Up
8379	MAD1L1	mitotic arrest deficient 1 like 1	1.383	21.341	Up
55501	CHST12	carbohydrate sulfotransferase 12	0.767	3.638	Up
3955	LFNG	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.824	4.602	Up
155185	AMZ1	archaelysin family metallopeptidase 1	2.293	2.892	Up
645700	ZNF890P	zinc finger protein 890, pseudogene	3.926	11.898	Up
26100	WIPI2	WD repeat domain, phosphoinositide interacting 2	0.846	4.884	Up
401303	ZNF815P	zinc finger protein 815, pseudogene	3.668	34.507	Up
654231	OCM	oncomodulin	3.645	6.354	Up
9265	CYTH3	cytohesin 3	1.294	3.49	Up
84792	FAM220A	family with sequence similarity 220 member A	0.702	1.423	Up
221955	DAGLB	diacylglycerol lipase beta	1.465	3.809	Up
7559	ZNF12	zinc finger protein 12	0.695	7.784	Up
729852	UMAD1	UBAP1-MVB12-associated (UMA) domain containing 1	0.944	4.056	Up
113263	GLCCI1	glucocorticoid induced 1	0.857	6.007	Up
57037	ANKMY2	ankyrin repeat and MYND domain containing 2	1.028	6.847	Up
54543	TOMM7	translocase of outer mitochondrial membrane 7	1.209	3.918	Up
55975	KLHL7	kelch like family member 7	0.715	2.056	Up
10457	GPNMB	glycoprotein nmb	1.635	2.88	Up
136895	C7orf31	chromosome 7 open reading frame 31	0.988	3.859	Up
54504	CPVL	carboxypeptidase vitellogenic like	5.03	7.627	Up
1124	CHN2	chimerin 2	1.434	3.431	Up
222166	MTURN	maturin, neural progenitor differentiation regulator homolog	1.047	7.967	Up
223082	ZNRF2	zinc and ring finger 2	0.378	1.5	Up
222161	DKFZP586I1420	uncharacterized protein DKFZp586I1420	1.223	8.629	Up
10392	NOD1	nucleotide binding oligomerization domain containing 1	1.021	4.512	Up
1.05E+08	LOC105375219	uncharacterized LOC105375219	6.072	6.129	Up
25948	KBTBD2	kelch repeat and BTB domain containing 2	0.395	2.721	Up
27241	BBS9	Bardet-Biedl syndrome 9	0.885	3.092	Up
64224	HERPUD2	HERPUD family member 2	0.922	5.686	Up
1.02E+08	HERPUD2-AS1	HERPUD2 antisense RNA 1	0.915	2.927	Up
80820	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1	2.209	6.83	Up
313	AOAH	acyloxyacyl hydrolase	2.416	1.837	Up
353345	GPR141	G protein-coupled receptor 141	1.894	2.739	Up
445347	TARP	TCR gamma alternate reading frame protein	1.316	11.021	Up
6967	TRGC2	T cell receptor gamma constant 2	1.316	3.012	Up
6966	TRGC1	T cell receptor gamma constant 1	1.128	4.332	Up
6984	TRGV10	T cell receptor gamma variable 10 (non-functional)	1.98	4.082	Up
6981	TRGV7	T cell receptor gamma variable 7 (pseudogene)	1.648	1.915	Up
1.01E+08	TRG-AS1	T cell receptor gamma locus antisense RNA 1	2.452	16.163	Up
6974	TRGV2	T cell receptor gamma variable 2	1.83	2.787	Up
9263	STK17A	serine/threonine kinase 17a	0.912	1.566	Up

55744	COA1	cytochrome c oxidase assembly factor 1	0.704	1.435	Up
401331	RASA4CP	RAS p21 protein activator 4C, pseudogene	0.656	2.916	Up
255031	LINC00957	long intergenic non-protein coding RNA 957	1.289	7.412	Up
5224	PGAM2	phosphoglycerate mutase 2	1.803	2.314	Up
83605	CCM2	CCM2 scaffold protein	1.248	21.181	Up
3486	IGFBP3	insulin like growth factor binding protein 3	2.027	6.059	Up
168507	PKD1L1	polycystin 1 like 1, transient receptor potential channel interacting	0.981	1.387	Up
81552	VOPP1	VOPP1 WW domain binding protein	0.422	1.86	Up
25870	SUMF2	sulfatase modifying factor 2	0.643	2.294	Up
5260	PHKG1	phosphorylase kinase catalytic subunit gamma 1	0.639	1.717	Up
1.08E+08	LINC02848	long intergenic non-protein coding RNA 2848	2.104	2.179	Up
340252	ZNF680	zinc finger protein 680	0.797	2.591	Up
168374	ZNF92	zinc finger protein 92	1.088	1.565	Up
1.02E+08	LOC101929322	integrator complex subunit 4 pseudogene	2.002	1.333	Up
441242	LINC03006	long intergenic non-protein coding RNA 3006	0.994	1.868	Up
285908	LINC00174	long intergenic non-protein coding RNA 174	1.504	1.443	Up
1E+08	LINC03011	long intergenic non-protein coding RNA 3011	1.422	2.235	Up
154881	KCTD7	potassium channel tetramerization domain containing 7	2.012	14.116	Up
644794	LINC02604	long intergenic non-protein coding RNA 2604	1.814	2.001	Up
55069	TMEM248	transmembrane protein 248	0.392	1.607	Up
1.12E+08	LOC112268006		0.687	1.36	Up
378108	TRIM74	tripartite motif containing 74	1.018	1.639	Up
1E+08	GTF2IP4	general transcription factor IIi pseudogene 4	0.385	1.485	Up
654816	NCF1B	neutrophil cytosolic factor 1B pseudogene	0.944	2.185	Up
653361	NCF1	neutrophil cytosolic factor 1	1.126	1.707	Up
729438	CASTOR2	cytosolic arginine sensor for mTORC1 subunit 2	1.147	2.219	Up
389524	GTF2IRD2B	GTF2I repeat domain containing 2B	0.378	1.665	Up
654817	NCF1C	neutrophil cytosolic factor 1C pseudogene	0.982	1.619	Up
1.08E+08	LOC107986710	uncharacterized LOC107986710	0.927	2.357	Up
54441	STAG3L1	stromal antigen 3-like 1 (pseudogene)	0.905	1.399	Up
155400	NSUN5P1	NSUN5 pseudogene 1	0.774	1.771	Up
6369	CCL24	C-C motif chemokine ligand 24	2.572	1.503	Up
57414	RHBDD2	rhomboid domain containing 2	0.832	6.611	Up
1.01E+08	SPDYE18	speedy/RINGO cell cycle regulator family member E18	1.711	1.83	Up
57639	CCDC146	coiled-coil domain containing 146	2.83	7.507	Up
10875	FGL2	fibrinogen like 2	2.863	1.949	Up
5782	PTPN12	protein tyrosine phosphatase non-receptor type 12	0.927	3.623	Up
222194	RSBN1L	round spermatid basic protein 1 like	0.831	4.908	Up
85025	TMEM60	transmembrane protein 60	0.596	2.754	Up
1.01E+08	MAGI2-AS3	MAGI2 antisense RNA 3	1.539	1.307	Up
948	CD36	CD36 molecule	2.005	3.316	Up
10371	SEMA3A	semaphorin 3A	2.649	2.644	Up
9988	DMTF1	cyclin D binding myb like transcription factor 1	0.413	1.687	Up
11257	TP53TG1	TP53 target 1	1.508	5.728	Up
54677	CROT	carnitine O-octanoyltransferase	0.979	4.514	Up

5244	ABCB4	ATP binding cassette subfamily B member 4	1.305	3.479	Up
5243	ABCB1	ATP binding cassette subfamily B member 1	1.697	2.153	Up
55972	SLC25A40	solute carrier family 25 member 40	0.625	2.939	Up
53616	ADAM22	ADAM metallopeptidase domain 22	2.326	5.364	Up
5218	CDK14	cyclin dependent kinase 14	2.124	2.058	Up
8321	FZD1	frizzled class receptor 1	2.725	5.692	Up
7978	MTERF1	mitochondrial transcription termination factor 1	0.45	2.253	Up
5189	PEX1	peroxisomal biogenesis factor 1	0.434	1.709	Up
84060	RBM48	RNA binding motif protein 48	0.648	4.408	Up
54809	SAMD9	sterile alpha motif domain containing 9	0.708	1.889	Up
55610	VPS50	VPS50 subunit of EARP/GARPII complex	0.478	1.598	Up
2791	GNG11	G protein subunit gamma 11	2.688	1.696	Up
1.08E+08	LOC107986820	uncharacterized LOC107986820	1.348	1.979	Up
5166	PDK4	pyruvate dehydrogenase kinase 4	4.17	2.041	Up
4951	OCM2	oncomodulin 2	3.945	1.906	Up
25851	TECPR1	tectonin beta-propeller repeat containing 1	1.967	14.834	Up
1.02E+08	LOC101927550	uncharacterized LOC101927550	0.68	2.039	Up
285989	ZNF789	zinc finger protein 789	0.552	1.775	Up
84124	ZNF394	zinc finger protein 394	0.512	2.55	Up
221786	FAM200A	family with sequence similarity 200 member A	0.51	2.144	Up
1E+08	TMEM225B	transmembrane protein 225B	0.335	2.087	Up
221785	ZSCAN25	zinc finger and SCAN domain containing 25	0.407	3.275	Up
89122	TRIM4	tripartite motif containing 4	0.929	8.312	Up
7551	ZNF3	zinc finger protein 3	0.785	4.522	Up
245812	CNPY4	canopy FGF signaling regulator 4	1.843	11.207	Up
79690	GAL3ST4	galactose-3-O-sulfotransferase 4	4.076	11.546	Up
221914	GPC2	glypican 2	1.933	1.781	Up
352954	CASTOR3P	CASTOR family member 3, pseudogene	1.366	11.63	Up
79037	PVRIG	PVR related immunoglobulin domain containing	0.418	1.351	Up
1.08E+08	LOC107986828		1.032	1.394	Up
29992	PILRA	paired immunoglobin like type 2 receptor alpha	1.69	1.48	Up
1E+08	SAP25	Sin3A associated protein 25	2.146	3.475	Up
4034	LRCH4	leucine rich repeats and calponin homology domain containing 4	0.927	4.485	Up
1.02E+08	ZASP		1.033	3.672	Up
5118	PCOLCE	procollagen C-endopeptidase enhancer	1.84	1.923	Up
64599	GIGYF1	GRB10 interacting GYF protein 1	0.924	1.754	Up
24146	CLDN15	claudin 15	1.187	1.483	Up
1E+08	RASA4B	RAS p21 protein activator 4B	0.915	2.128	Up
10156	RASA4	RAS p21 protein activator 4	0.908	2.181	Up
1E+08	RASA4DP	RAS p21 protein activator 4D, pseudogene	0.915	2.473	Up
349152	DPY19L2P2	DPY19L2 pseudogene 2	0.718	2.146	Up
6733	SRPK2	SRSF protein kinase 2	0.416	2.636	Up
222255	ATXN7L1	ataxin 7 like 1	2.47	26.516	Up
222256	CDHR3	cadherin related family member 3	2.021	6.601	Up
6856	SYPL1	synaptophysin like 1	0.851	2.825	Up
5294	PIK3CG	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	1.182	8.069	Up

26959	HBP1	HMG-box transcription factor 1	1.508	9.828	Up
10466	COG5	component of oligomeric golgi complex 5	0.439	1.958	Up
1.02E+08	CBLL1-AS1	CBLL1 antisense RNA 1	1.476	3.239	Up
79872	CBLL1	Cbl proto-oncogene like 1	0.746	3.366	Up
4897	NRCAM	neuronal cell adhesion molecule	2.628	4.647	Up
11179	ZNF277	zinc finger protein 277	1.126	2.684	Up
26136	TES	testin LIM domain protein	0.973	2.175	Up
8976	WASL	WASP like actin nucleation promoting factor	0.575	3.314	Up
25913	POT1	protection of telomeres 1	0.556	1.65	Up
401398	POT1-AS1	POT1 antisense RNA 1	1.684	2.705	Up
168850	ZNF800	zinc finger protein 800	0.336	1.8	Up
23382	AHCYL2	adenosylhomocysteinase like 2	0.719	5.661	Up
4899	NRF1	nuclear respiratory factor 1	0.541	2.222	Up
7328	UBE2H	ubiquitin conjugating enzyme E2 H	0.568	3.046	Up
91584	PLXNA4	plexin A4	1.927	1.635	Up
60412	EXOC4	exocyst complex component 4	0.395	3.318	Up
29062	WDR91	WD repeat domain 91	0.55	1.819	Up
254048	UBN2	ubinuclein 2	0.817	2.222	Up
1E+08	KDM7A-DT	KDM7A divergent transcript	1.083	2.032	Up
23608	MKRN1	makorin ring finger protein 1	0.452	1.497	Up
57189	DENND11	DENN domain containing 11	0.764	4.419	Up
285962	WEE2-AS1	WEE2 antisense RNA 1	1.781	2.078	Up
23601	CLEC5A	C-type lectin domain containing 5A	3.487	5.03	Up
8972	MGAM	maltase-glucoamylase	3.286	1.38	Up
28621	TRBV1	T cell receptor beta variable 1 (pseudogene)	2.352	2.458	Up
28620	TRBV2	T cell receptor beta variable 2	1.4	2.179	Up
1.05E+08	LOC105375539	uncharacterized LOC105375539	3.119	5.38	Up
28619	TRBV3-1	T cell receptor beta variable 3-1	1.416	6.558	Up
28614	TRBV5-1	T cell receptor beta variable 5-1	1.508	4.481	Up
28606	TRBV6-1	T cell receptor beta variable 6-1	1.174	3.879	Up
28597	TRBV7-1	T cell receptor beta variable 7-1 (non-functional)	2.175	1.704	Up
28604	TRBV6-3	T cell receptor beta variable 6-3	1.137	3.096	Up
28596	TRBV7-2	T cell receptor beta variable 7-2	0.967	7.775	Up
28603	TRBV6-4	T cell receptor beta variable 6-4	1.632	2.482	Up
28595	TRBV7-3	T cell receptor beta variable 7-3	1.037	1.605	Up
28586	TRBV9	T cell receptor beta variable 9	1.064	2.414	Up
28582	TRBV11-1	T cell receptor beta variable 11-1	1.867	9.913	Up
28581	TRBV11-2	T cell receptor beta variable 11-2	1.921	2.557	Up
28602	TRBV6-5	T cell receptor beta variable 6-5	1.785	7.579	Up
28594	TRBV7-4	T cell receptor beta variable 7-4	1.462	3.582	Up
1.08E+08	LOC107986855	uncharacterized LOC107986855	1.762	10.105	Up
28611	TRBV5-4	T cell receptor beta variable 5-4	1.294	9.422	Up
1.05E+08	LOC105379749	uncharacterized LOC105379749	2.388	11.588	Up
28601	TRBV6-6	T cell receptor beta variable 6-6	1.753	8.198	Up
28593	TRBV7-5	T cell receptor beta variable 7-5 (pseudogene)	1.347	1.953	Up
28610	TRBV5-5	T cell receptor beta variable 5-5	1.953	7.556	Up
28592	TRBV7-6	T cell receptor beta variable 7-6	1.424	4.399	Up
28609	TRBV5-6	T cell receptor beta variable 5-6	1.406	2.974	Up

28591	TRBV7-7	T cell receptor beta variable 7-7	1.714	1.539	Up
28608	TRBV5-7	T cell receptor beta variable 5-7 (non-functional)	2.454	4.493	Up
28589	TRBV7-9	T cell receptor beta variable 7-9	1.701	5.878	Up
28574	TRBV13	T cell receptor beta variable 13	1.234	1.879	Up
28583	TRBV10-3	T cell receptor beta variable 10-3	1.88	8.808	Up
28580	TRBV11-3	T cell receptor beta variable 11-3	1.405	3.112	Up
28577	TRBV12-3	T cell receptor beta variable 12-3	1.997	7.485	Up
28576	TRBV12-4	T cell receptor beta variable 12-4	2.048	4.654	Up
28573	TRBV14	T cell receptor beta variable 14	1.953	7.712	Up
28572	TRBV15	T cell receptor beta variable 15	1.677	6.1	Up
28571	TRBV16	T cell receptor beta variable 16	2.316	1.302	Up
28569	TRBV18	T cell receptor beta variable 18	2.089	7.697	Up
28568	TRBV19	T cell receptor beta variable 19	2.465	12.847	Up
28567	TRBV20-1	T cell receptor beta variable 20-1	1.153	4.147	Up
28566	TRBV21-1	T cell receptor beta variable 21-1 (pseudogene)	2.08	11.174	Up
28564	TRBV23-1	T cell receptor beta variable 23-1 (non-functional)	2.407	2.52	Up
28563	TRBV24-1	T cell receptor beta variable 24-1	1.699	2.151	Up
1E+08	MTRNR2L6	MT-RNR2 like 6 (pseudogene)	1.301	1.528	Up
28562	TRBV25-1	T cell receptor beta variable 25-1	1.078	2.253	Up
28560	TRBV27	T cell receptor beta variable 27	0.991	2.55	Up
28559	TRBV28	T cell receptor beta variable 28	0.87	2.018	Up
5644	PRSS1	serine protease 1	1.716	8.966	Up
28558	TRBV29-1	T cell receptor beta variable 29-1	1.706	8.814	Up
28637	TRBD1	T cell receptor beta diversity 1	1.622	6.333	Up
28635	TRBJ1-1	T cell receptor beta joining 1-1	1.463	3.009	Up
28634	TRBJ1-2	T cell receptor beta joining 1-2	1.579	2.457	Up
28633	TRBJ1-3	T cell receptor beta joining 1-3	1.311	1.779	Up
28632	TRBJ1-4	T cell receptor beta joining 1-4	2.145	8.985	Up
28631	TRBJ1-5	T cell receptor beta joining 1-5	1.093	2.982	Up
28630	TRBJ1-6	T cell receptor beta joining 1-6	2.397	10.678	Up
28639	TRBC1	T cell receptor beta constant 1	1.357	5.082	Up
28629	TRBJ2-1	T cell receptor beta joining 2-1	1.23	3.394	Up
28628	TRBJ2-2	T cell receptor beta joining 2-2	1.286	4.705	Up
28626	TRBJ2-3	T cell receptor beta joining 2-3	1.014	2.545	Up
28624	TRBJ2-5	T cell receptor beta joining 2-5	1.223	5.168	Up
28623	TRBJ2-6	T cell receptor beta joining 2-6	1.183	3.118	Up
28622	TRBJ2-7	T cell receptor beta joining 2-7	1.134	3.979	Up
28638	TRBC2	T cell receptor beta constant 2	1.199	4.977	Up
28557	TRBV30	T cell receptor beta variable 30	1.836	6.562	Up
1.05E+08	LOC105375541	uncharacterized LOC105375541	1.984	5.915	Up
2051	EPHB6	EPH receptor B6	1.72	10.432	Up
835	CASP2	caspase 2	0.504	1.791	Up
2041	EPHA1	EPH receptor A1	0.848	3.319	Up
285965	EPHA1-AS1	EPHA1 antisense RNA 1	3.114	5.557	Up
1.02E+08	ARHGEF35-AS1	ARHGEF35 antisense RNA 1	1.668	2.91	Up
1.02E+08	OR2A1-AS1	OR2A1 antisense RNA 1	1.457	2.598	Up
401428	OR2A20P	olfactory receptor family 2 subfamily A member 20 pseudogene	1.897	2.066	Up

441295	OR2A9P	olfactory receptor family 2 subfamily A member 9 pseudogene	1.899	2.135	Up
27010	TPK1	thiamin pyrophosphokinase 1	0.975	5.038	Up
136051	ZNF786	zinc finger protein 786	0.785	3.895	Up
155054	ZNF425	zinc finger protein 425	1.605	7.225	Up
57541	ZNF398	zinc finger protein 398	0.394	2.677	Up
7988	ZNF212	zinc finger protein 212	0.562	3.689	Up
155060	LOC155060	AI894139 pseudogene	1.677	2.144	Up
168544	ZNF467	zinc finger protein 467	2.44	7.089	Up
23145	SSPOP	SCO-spondin, pseudogene	4.281	1.734	Up
643641	ZNF862	zinc finger protein 862	1.736	10.484	Up
401431	ATP6V0E2-AS1	ATP6V0E2 antisense RNA 1	3.025	16.571	Up
155066	ATP6V0E2	ATPase H+ transporting V0 subunit e2	0.85	3.889	Up
1.05E+08	REPIN1-AS1	REPIN1 antisense RNA 1	0.894	2.179	Up
1.08E+08	LOC107986859		2.82	5.372	Up
728743	LOC728743	zinc finger domain-containing protein LOC728743	2.134	22.093	Up
155038	GIMAP8	GTPase, IMAP family member 8	1.157	5.821	Up
168537	GIMAP7	GTPase, IMAP family member 7	1.134	6.227	Up
55303	GIMAP4	GTPase, IMAP family member 4	1.265	4.86	Up
474344	GIMAP6	GTPase, IMAP family member 6	1.559	12.571	Up
26157	GIMAP2	GTPase, IMAP family member 2	2.757	16.978	Up
1.01E+08	GIMAP1-GIMAP5	GIMAP1-GIMAP5 readthrough	1.053	4.747	Up
170575	GIMAP1	GTPase, IMAP family member 1	2.645	44.587	Up
55340	GIMAP5	GTPase, IMAP family member 5	0.862	2.681	Up
28959	TMEM176B	transmembrane protein 176B	3.136	1.634	Up
55365	TMEM176A	transmembrane protein 176A	3.905	2.437	Up
26	AOC1	amine oxidase copper containing 1	7.13	7.731	Up
4846	NOS3	nitric oxide synthase 3	0.685	2.567	Up
285973	ATG9B	autophagy related 9B	1.983	29.721	Up
9311	ASIC3	acid sensing ion channel subunit 3	1.271	1.529	Up
116988	AGAP3	ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	0.729	1.409	Up
1.14E+08	H2BK1	H2B.K variant histone 1	1.798	2.359	Up
6604	SMARCD3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	0.927	2.085	Up
51667	NUB1	negative regulator of ubiquitin like proteins 1	0.638	1.921	Up
349136	WDR86	WD repeat domain 86	1.058	5.975	Up
1E+08	WDR86-AS1	WDR86 antisense RNA 1	3.443	5.359	Up
51422	PRKAG2	protein kinase AMP-activated non-catalytic subunit gamma 2	0.395	2.336	Up
1E+08	LINC01003	long intergenic non-protein coding RNA 1003	0.825	1.841	Up
1E+08	PAXIP1-AS2	PAXIP1 antisense RNA 2	0.677	2.661	Up
202781	PAXIP1-DT	PAXIP1 divergent transcript	1.228	6.37	Up
140545	RNF32	ring finger protein 32	1.045	2.247	Up
57488	ESYT2	extended synaptotagmin 2	0.807	4.568	Up
169270	ZNF596	zinc finger protein 596	0.733	1.58	Up
26260	FBXO25	F-box protein 25	0.918	3.999	Up

1.02E+08	CLN8-AS1	CLN8 antisense RNA 1	1.33	6.047	Up
1.05E+08	LOC105377782	uncharacterized LOC105377782	3.685	2.165	Up
1E+08	MCPH1-DT	MCPH1 divergent transcript	1.206	1.751	Up
1.05E+08	FAM85B	family with sequence similarity 85 member B	2.093	2.82	Up
157285	PRAG1	PEAK1 related, kinase-activating pseudokinase 1	1.578	5.879	Up
8658	TNKS	tankyrase	0.779	3.036	Up
640	BLK	BLK proto-oncogene, Src family tyrosine kinase	1.183	1.559	Up
619423	FAM85A	family with sequence similarity 85 member A	1.71	1.972	Up
1.01E+08	FAM86B2-DT	FAM86B2 divergent transcript	2.091	20.863	Up
57509	MTUS1	microtubule associated scaffold protein 1	2.422	3.943	Up
427	ASAH1	N-acylsphingosine amidohydrolase 1	1.088	5.254	Up
55790	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1	3.186	39.086	Up
4023	LPL	lipoprotein lipase	3.473	2.814	Up
2675	GFRA2	GDNF family receptor alpha 2	6.126	3.278	Up
10174	SORBS3	sorbin and SH3 domain containing 3	0.965	2.097	Up
64236	PDLIM2	PDZ and LIM domain 2	0.42	2.015	Up
91782	CHMP7	charged multivesicular body protein 7	1.65	7.412	Up
1.05E+08	LOC105379326		3.546	17.301	Up
9583	ENTPD4	ectonucleoside triphosphate diphosphohydrolase 4	0.583	2.85	Up
4747	NEFL	neurofilament light chain	2.454	5.35	Up
80005	DOCK5	dedicator of cytokinesis 5	1.496	1.709	Up
157489	SDAD1P1	SDA1 domain containing 1 pseudogene 1	1.071	2.595	Up
1.05E+08	LOC105379337		3.342	6.81	Up
1808	DPYSL2	dihydropyrimidinase like 2	1.898	11.376	Up
23087	TRIM35	tripartite motif containing 35	0.433	1.56	Up
2053	EPHX2	epoxide hydrolase 2	1.741	4.595	Up
1191	CLU	clusterin	1.935	10.368	Up
51435	SCARA3	scavenger receptor class A member 3	0.429	1.339	Up
55893	ZNF395	zinc finger protein 395	0.792	3.776	Up
51669	SARAF	store-operated calcium entry associated regulatory factor	1.898	11.887	Up
23484	LEPROTL1	leptin receptor overlapping transcript like 1	1.773	9.559	Up
619373	MBOAT4	membrane bound O-acyltransferase domain containing 4	1.823	2.662	Up
1.05E+08	LOC105379362	uncharacterized LOC105379362	1.371	3.018	Up
79845	RNF122	ring finger protein 122	1.228	3.177	Up
23259	DDHD2	DDHD domain containing 2	0.495	2.678	Up
59339	PLEKHA2	pleckstrin homology domain containing A2	0.527	2.132	Up
51125	GOLGA7	golgin A7	0.827	2.361	Up
286	ANK1	ankyrin 1	1.69	3.97	Up
7994	KAT6A	lysine acetyltransferase 6A	0.836	3.098	Up
1.05E+08	KAT6A-AS1	KAT6A antisense RNA 1	1.012	1.52	Up
1.08E+08	LOC107986939	uncharacterized LOC107986939	1.313	2.23	Up
6575	SLC20A2	solute carrier family 20 member 2	0.42	1.522	Up
81790	RNF170	ring finger protein 170	0.889	6.752	Up
2339	FNTA	farnesyltransferase, CAAX box, alpha	0.46	1.927	Up

138050	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase	0.95	2.408	Up
115294	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	1.653	7.911	Up
1.03E+08	PCMTD1-DT	PCMTD1 divergent transcript	1.388	3.951	Up
9821	RB1CC1	RB1 inducible coiled-coil 1	0.773	5.694	Up
6224	RPS20	ribosomal protein S20	0.793	1.352	Up
5324	PLAG1	PLAG1 zinc finger	1.951	7.675	Up
1.05E+08	LOC105375938	uncharacterized LOC105375938	2.341	4.19	Up
444	ASPH	aspartate beta-hydroxylase	1.04	4.216	Up
5150	PDE7A	phosphodiesterase 7A	1.919	20.995	Up
1.08E+08	LOC107986948		2.036	10.123	Up
137872	ADHFE1	alcohol dehydrogenase iron containing 1	2.072	5.256	Up
4603	MYBL1	MYB proto-oncogene like 1	1.707	4.588	Up
1.01E+08	C8orf44-SGK3	C8orf44-SGK3 readthrough	0.703	2.751	Up
23678	SGK3	serum/glucocorticoid regulated kinase family member 3	0.725	2.97	Up
157777	MCMDC2	minichromosome maintenance domain containing 2	1.158	4.954	Up
641638	SNHG6	small nucleolar RNA host gene 6	1.199	4.996	Up
10565	ARFGEF1	ADP ribosylation factor guanine nucleotide exchange factor 1	0.405	1.567	Up
5569	PKIA	cAMP-dependent protein kinase inhibitor alpha	0.881	4.356	Up
619279	ZNF704	zinc finger protein 704	3.365	6.553	Up
55824	PAG1	phosphoprotein membrane anchor with glycosphingolipid microdomains 1	1.034	4.473	Up
245972	ATP6V0D2	ATPase H+ transporting V0 subunit d2	4.583	2.219	Up
1.05E+08	WWP1-AS1	WWP1 antisense RNA 1	3.55	8.808	Up
11059	WWP1	WW domain containing E3 ubiquitin protein ligase 1	0.688	7.553	Up
51115	RMDN1	regulator of microtubule dynamics 1	0.421	2.585	Up
55529	PIP4P2	phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2	0.88	2.651	Up
1.01E+08	OTUD6B-AS1	OTUD6B antisense RNA 1 (head to head)	0.515	1.673	Up
286144	TRIQK	triple QxxK/R motif containing	1.573	2.17	Up
137392	CIBAR1	CBY1 interacting BAR domain containing 1	0.743	2.288	Up
54704	PDP1	pyruvate dehydrogenase phosphatase catalytic subunit 1	1.25	11.324	Up
1.01E+08	FSBP	fibrinogen silencer binding protein	1.417	1.603	Up
286148	DPY19L4	dpy-19 like 4	0.996	1.969	Up
79666	PLEKHF2	pleckstrin homology and FYVE domain containing 2	0.645	4.445	Up
7381	UQCRB	ubiquinol-cytochrome c reductase binding protein	0.914	1.684	Up
9791	PTDSS1	phosphatidylserine synthase 1	0.624	2.674	Up
6383	SDC2	syndecan 2	3.481	8.932	Up
10404	CPQ	carboxypeptidase Q	1.129	5.872	Up
4147	MATN2	matrilin 2	2.963	2.52	Up
6156	RPL30	ribosomal protein L30	0.933	1.715	Up
1.05E+08	VPS13B-DT	VPS13B divergent transcript	1.823	1.715	Up
26986	PABPC1	poly(A) binding protein cytoplasmic 1	1.065	5.31	Up
1.02E+08	MIR7705	microRNA 7705	1.169	3.755	Up

50484	RRM2B	ribonucleotide reductase regulatory TP53 inducible subunit M2B	0.513	1.443	Up
1.02E+08	UBR5-DT	UBR5 divergent transcript	1.658	1.589	Up
79870	BAALC	BAALC binder of MAP3K1 and KLF4	3.601	2.567	Up
55074	OXR1	oxidation resistance 1	1.368	24.07	Up
7227	TRPS1	transcriptional repressor GATA binding 1	0.51	1.821	Up
64798	DEPTOR	DEP domain containing MTOR interacting protein	1.978	4.333	Up
114907	FBXO32	F-box protein 32	2.354	8.119	Up
1.02E+08	RNF139-DT	RNF139 divergent transcript	1.467	1.649	Up
9788	MTSS1	MTSS I-BAR domain containing 1	3.43	67.681	Up
137209	ZNF572	zinc finger protein 572	0.996	1.983	Up
1.05E+08	LOC105375748		4.218	2.633	Up
1.08E+08	LOC107986974		2.44	2.571	Up
1E+08	LINC00861	long intergenic non-protein coding RNA 861	2.686	16.591	Up
5462	POU5F1B	POU class 5 homeobox 1B	2.55	2.113	Up
1.02E+08	LINC00824	long intergenic non-protein coding RNA 824	2.262	1.989	Up
23639	DNAAF11	dynein axonemal assembly factor 11	2.673	2.126	Up
137835	TMEM71	transmembrane protein 71	1.546	4.327	Up
10397	NDRG1	N-myc downstream regulated 1	0.632	3.963	Up
359809	PEG13	paternally expressed 13	4.039	30.967	Up
51337	THEM6	thioesterase superfamily member 6	0.774	4.464	Up
2738	GLI4	GLI family zinc finger 4	1.196	4.802	Up
1.01E+08	MINCR	MYC-induced long non-coding RNA	1.472	3.803	Up
79943	ZNF696	zinc finger protein 696	0.614	1.552	Up
78998	RHPN1-AS1	RHPN1 antisense RNA 1 (head to head)	1.943	1.741	Up
114822	RHPN1	rhophilin Rho GTPase binding protein 1	0.899	1.824	Up
1E+08	LOC100310756	uncharacterized LOC100310756	1.126	5.228	Up
642475	MROH6	maestro heat like repeat family member 6	1.803	2.961	Up
9831	ZNF623	zinc finger protein 623	1.04	6.559	Up
286075	ZNF707	zinc finger protein 707	0.497	2.58	Up
340371	NRBP2	nuclear receptor binding protein 2	1.068	2.778	Up
83481	EPPK1	epiplakin 1	3.146	10.309	Up
5339	PLEC	plectin	1.293	1.841	Up
50626	ZFTRAF1	zinc finger TRAF-type containing 1	0.374	1.455	Up
90987	ZNF251	zinc finger protein 251	1.05	4.523	Up
340385	ZNF517	zinc finger protein 517	1.193	6.137	Up
1E+08	LOC100130027	uncharacterized LOC100130027	1.597	6.472	Up
7553	ZNF7	zinc finger protein 7	0.601	2.035	Up
58500	ZNF250	zinc finger protein 250	0.872	4.982	Up
286101	ZNF252P	zinc finger protein 252, pseudogene	1.029	8.535	Up
1.02E+08	LINC01388	long intergenic non-protein coding RNA 1388	2.077	1.909	Up
81704	DOCK8	dedicator of cytokinesis 8	0.883	8.894	Up
1.12E+08	DOCK8-AS2	DOCK8 antisense RNA 2	0.922	5.767	Up

6595	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	0.978	4.353	Up
169792	GLIS3	GLIS family zinc finger 3	1.534	1.442	Up
6505	SLC1A1	solute carrier family 1 member 1	2.864	4.071	Up
55064	SPATA6L	spermatogenesis associated 6 like	1.305	3.2	Up
403313	PLPP6	phospholipid phosphatase 6	1.446	9.948	Up
1.02E+08	CDC37L1-DT	CDC37L1 divergent transcript	2.496	2.783	Up
55664	CDC37L1	cell division cycle 37 like 1, HSP90 cochaperone	0.445	2.195	Up
6013	RLN1	relaxin 1	1.593	1.574	Up
57589	RIC1	RIC1 homolog, RAB6A GEF complex partner 1	0.48	2.722	Up
79956	ERMP1	endoplasmic reticulum metallopeptidase 1	1.614	9.541	Up
158358	KIAA2026	KIAA2026	0.743	1.569	Up
26953	RANBP6	RAN binding protein 6	0.453	2.343	Up
115426	UHRF2	ubiquitin like with PHD and ring finger domains 2	0.577	2.982	Up
23081	KDM4C	lysine demethylase 4C	0.409	3.362	Up
158326	FREM1	FRAS1 related extracellular matrix 1	3.845	2.138	Up
6619	SNAPC3	small nuclear RNA activating complex polypeptide 3	0.679	5.387	Up
11168	PSIP1	PC4 and SRSF1 interacting protein 1	0.882	5.248	Up
55667	DENND4C	DENN domain containing 4C	0.659	2.307	Up
340485	ACER2	alkaline ceramidase 2	1.495	10.142	Up
4300	MLLT3	MLLT3 super elongation complex subunit	1.186	7.431	Up
401494	HACD4	3-hydroxyacyl-CoA dehydratase 4	1.527	3.748	Up
10210	TOPORS	TOP1 binding arginine/serine rich protein, E3 ubiquitin ligase	0.636	7.412	Up
1E+08	SMIM27	small integral membrane protein 27	0.85	2.254	Up
4799	NFX1	nuclear transcription factor, X-box binding 1	0.606	4.924	Up
360	AQP3	aquaporin 3 (Gill blood group)	3.648	33.832	Up
11191	PTENP1	phosphatase and tensin homolog pseudogene 1	0.841	4.117	Up
6958	TRBV29OR9-2	T cell receptor beta variable 29/OR9-2 (non-functional)	1.849	1.722	Up
54926	UBE2R2	ubiquitin conjugating enzyme E2 R2	0.416	2.227	Up
2592	GALT	galactose-1-phosphate uridylyltransferase	0.754	3.429	Up
3590	IL11RA	interleukin 11 receptor subunit alpha	2.28	9.199	Up
80256	ATOSB	atos homolog B	0.852	3.988	Up
7169	TPM2	tropomyosin 2	3.539	4.114	Up
51754	TMEM8B	transmembrane protein 8B	1.263	6.045	Up
8434	RECK	reversion inducing cysteine rich protein with kazal motifs	1.153	12.406	Up
152006	RNF38	ring finger protein 38	1.164	9.547	Up
1.01E+08	EBLN3P	endogenous Bornavirus like nucleoprotein 3, pseudogene	0.842	3.024	Up
84186	ZCCHC7	zinc finger CCHC-type containing 7	0.742	3.499	Up
158234	TRMT10B	tRNA methyltransferase 10B	0.846	1.879	Up
158228	FAM201A	family with sequence similarity 201 member A	1.666	1.344	Up
401509	ZNF658B	zinc finger protein 658B (pseudogene)	1.305	3.018	Up
1.05E+08	LOC105376046		3.629	5.236	Up
1.08E+08	LOC107986991		1.127	1.477	Up
1.08E+08	LOC107986997	uncharacterized LOC107986997	0.854	1.764	Up
1E+08	FRG1HP	FSHD region gene 1 family member H, pseudogene	1.002	10.93	Up
595135	PGM5P2	phosphoglucomutase 5 pseudogene 2	0.813	1.308	Up

1.08E+08	LOC107984035	uncharacterized LOC107984035	0.976	1.321	Up
1.08E+08	LOC107984126	zinc finger protein 658B-like	1.607	2.193	Up
1E+08	LOC100132249	uncharacterized LOC100132249	1.611	1.546	Up
1.08E+08	LOC107987072		1.173	1.644	Up
26149	ZNF658	zinc finger protein 658	1.281	2.613	Up
286380	FOXD4L3	forkhead box D4 like 3	5.987	3.25	Up
8395	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase type 1 beta	1.611	2.206	Up
116224	PABIR1	PP2A Aalpha (PPP2R1A) and B55A (PPP2R2A) interacting phosphatase regulator 1	0.732	3.268	Up
375743	PTAR1	protein prenyltransferase alpha subunit repeat containing 1	0.339	1.316	Up
216	ALDH1A1	aldehyde dehydrogenase 1 family member A1	2.194	3.434	Up
301	ANXA1	annexin A1	0.934	2.705	Up
54981	NMRK1	nicotinamide riboside kinase 1	0.911	2.065	Up
5125	PCSK5	proprotein convertase subtilisin/kexin type 5	2.303	14.111	Up
2776	GNAQ	G protein subunit alpha q	0.775	5.624	Up
7091	TLE4	TLE family member 4, transcriptional corepressor	1.087	2.514	Up
7088	TLE1	TLE family member 1, transcriptional corepressor	2.004	4.466	Up
414328	IDNK	IDNK gluconokinase	0.651	1.921	Up
80318	GKAP1	G kinase anchoring protein 1	1.13	3.068	Up
23287	AGTPBP1	ATP/GTP binding carboxypeptidase 1	1.165	10.824	Up
51280	GOLM1	golgi membrane protein 1	0.738	3.59	Up
10507	SEMA4D	semaphorin 4D	0.721	3.182	Up
6850	SYK	spleen associated tyrosine kinase	1.949	5.487	Up
89846	FGD3	FYVE, RhoGEF and PH domain containing 3	1.702	23.199	Up
1.02E+08	LOC101927954	uncharacterized LOC101927954	1.585	13.916	Up
203328	SUSD3	sushi domain containing 3	1.457	5.165	Up
1.08E+08	LOC107987097	uncharacterized LOC107987097	1.463	1.779	Up
5253	PHF2	PHD finger protein 2	0.811	2.638	Up
169841	ZNF169	zinc finger protein 169	0.915	7.505	Up
2203	FBP1	fructose-bisphosphatase 1	2.517	3.93	Up
5727	PTCH1	patched 1	2.513	11.051	Up
1.01E+08	LOC100507346	uncharacterized LOC100507346	2.24	2.837	Up
375748	ERCC6L2	ERCC excision repair 6 like 2	0.802	3.152	Up
11046	SLC35D2	solute carrier family 35 member D2	0.837	3.952	Up
22927	HABP4	hyaluronan binding protein 4	1.116	15.59	Up
8555	CDC14B	cell division cycle 14B	2.508	16.079	Up
22869	ZNF510	zinc finger protein 510	1.203	13.568	Up
158431	ZNF782	zinc finger protein 782	0.873	4.196	Up
57653	SUGT1P4-STRA6LP-CCDC180	SUGT1P4-STRA6LP-CCDC180 readthrough	1.482	2.053	Up
1E+08	CCDC180	coiled-coil domain containing 180	1.672	2.109	Up
7507	XPA	XPA, DNA damage recognition and repair factor	0.386	1.983	Up
1.12E+08	LOC112268051		1.927	1.782	Up

51531	TRMO	tRNA methyltransferase O	0.524	3.155	Up
55363	HEMGN	hemogen	2.88	6.698	Up
9830	TRIM14	tripartite motif containing 14	0.525	1.953	Up
55357	TBC1D2	TBC1 domain family member 2	0.851	2.238	Up
79695	GALNT12	polypeptide N-acetylgalactosaminyltransferase 12	1.315	4.909	Up
55014	STX17	syntaxin 17	0.411	2.079	Up
7743	ZNF189	zinc finger protein 189	0.382	2.434	Up
84302	PGAP4	post-GPI attachment to proteins GalNAc transferase 4	1.721	1.573	Up
116443	GRIN3A	glutamate ionotropic receptor NMDA type subunit 3A	0.997	1.375	Up
23446	SLC44A1	solute carrier family 44 member 1	1.037	12.368	Up
58499	ZNF462	zinc finger protein 462	1.751	2.489	Up
23731	TMEM245	transmembrane protein 245	1.378	15.499	Up
22949	PTGR1	prostaglandin reductase 1	2.044	1.644	Up
9991	PTBP3	polypyrimidine tract binding protein 3	0.512	1.675	Up
401548	SNX30	sorting nexin family member 30	1.351	13.99	Up
81932	HDHD3	haloacid dehalogenase like hydrolase domain containing 3	0.427	2.219	Up
210	ALAD	aminolevulinate dehydratase	0.503	3.564	Up
114991	ZNF618	zinc finger protein 618	1.489	1.453	Up
5005	ORM2	orosomucoid 2	2.61	2.373	Up
80709	AKNA	AT-hook transcription factor	1.007	2.184	Up
25861	WHRN	whirlin	1.773	2.299	Up
9550	ATP6V1G1	ATPase H+ transporting V1 subunit G1	0.619	1.524	Up
9966	TNFSF15	TNF superfamily member 15	3.716	2.168	Up
23245	ASTN2	astrotactin 2	0.853	1.333	Up
7099	TLR4	toll like receptor 4	1.369	1.411	Up
1955	MEGF9	multiple EGF like domains 9	1.376	13.83	Up
26190	FBXW2	F-box and WD repeat domain containing 2	0.632	1.674	Up
253039	CUTALP	cutA divalent cation tolerance like, pseudogene	0.827	5.288	Up
727	C5	complement C5	2.3	6.732	Up
2934	GSN	gelsolin	2.066	1.37	Up
57000	GSN-AS1	GSN antisense RNA 1	2.263	1.726	Up
2040	STOM	stomatin	0.518	2.003	Up
5742	PTGS1	prostaglandin-endoperoxide synthase 1	1.64	4.695	Up
23637	RABGAP1	RAB GTPase activating protein 1	0.657	5.713	Up
286205	SCAI	suppressor of cancer cell invasion	0.979	2.011	Up
5090	PBX3	PBX homeobox 3	1.037	6.591	Up
403341	ZBTB34	zinc finger and BTB domain containing 34	0.497	1.671	Up
10044	SH2D3C	SH2 domain containing 3C	1.195	2.473	Up
203	AK1	adenylate kinase 1	1.161	1.826	Up
30815	ST6GALNAC6	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	0.791	4.772	Up
399665	EEIG1	estrogen-induced osteoclastogenesis regulator 1	1.544	3.941	Up
114789	SLC25A25	solute carrier family 25 member 25	0.653	2.555	Up
6709	SPTAN1	spectrin alpha, non-erythrocytic 1	1.195	4.505	Up
10444	ZER1	zyg-11 related cell cycle regulator	1.124	10.035	Up
54662	TBC1D13	TBC1 domain family member 13	0.504	1.762	Up
883	KYAT1	kynurenine aminotransferase 1	0.934	2.755	Up
56262	LRRC8A	leucine rich repeat containing 8 VRAC subunit A	0.647	3.424	Up
389792	IER5L	immediate early response 5 like	2.25	3.589	Up
1.05E+08	IER5L-AS1	IER5L antisense RNA 1	8.132	7.47	Up
10868	USP20	ubiquitin specific peptidase 20	0.604	4.663	Up

286336	FAM78A	family with sequence similarity 78 member A	2.063	14.983	Up
84726	PRRC2B	proline rich coiled-coil 2B	1.701	7.776	Up
1.08E+08	LOC107987135		1.668	11.266	Up
84628	NTNG2	netrin G2	1.407	3.289	Up
11092	SPACA9	sperm acrosome associated 9	1.536	2.835	Up
6834	SURF1	SURF1 cytochrome c oxidase assembly factor	0.749	1.908	Up
1621	DBH	dopamine beta-hydroxylase	2.557	4.889	Up
138948	DBH-AS1	DBH antisense RNA 1	3.169	6.56	Up
1757	SARDH	sarcosine dehydrogenase	0.726	1.521	Up
8019	BRD3	bromodomain containing 3	0.896	2.752	Up
2219	FCN1	ficolin 1	7.42	12.627	Up
138311	DIPK1B	divergent protein kinase domain 1B	1.423	4.498	Up
84973	SNHG7	small nucleolar RNA host gene 7	2.025	14.11	Up
9022	CLIC3	chloride intracellular channel 3	4.19	8.562	Up
11253	MAN1B1	mannosidase alpha class 1B member 1	1.186	14.985	Up
1.02E+08	LOC101930307		2.238	2.473	Up
375775	PNPLA7	patatin like phospholipase domain containing 7	1.615	4.992	Up
10771	ZMYND11	zinc finger MYND-type containing 11	0.509	2.118	Up
22982	DIP2C	disco interacting protein 2 homolog C	2.481	3.742	Up
22884	WDR37	WD repeat domain 37	1.089	7.976	Up
10276	NET1	neuroepithelial cell transforming 1	2.036	6.19	Up
1.05E+08	LOC105376381	uncharacterized LOC105376381	3.281	2.403	Up
79754	ASB13	ankyrin repeat and SOCS box containing 13	1.368	7.93	Up
399715	LINC02649	long intergenic non-protein coding RNA 2649	1.742	1.736	Up
399716	LINC02656	long intergenic non-protein coding RNA 2656	2.165	1.859	Up
5588	PRKCQ	protein kinase C theta	0.447	2.8	Up
1.02E+08	LINC02648	long intergenic non-protein coding RNA 2648	2.544	5.729	Up
2625	GATA3	GATA binding protein 3	0.346	1.529	Up
57118	CAMK1D	calcium/calmodulin dependent protein kinase ID	0.543	1.609	Up
55691	FRMD4A	FERM domain containing 4A	0.862	1.593	Up
441549	CDNF	cerebral dopamine neurotrophic factor	2.169	5.811	Up
64421	DCLRE1C	DNA cross-link repair 1C	0.565	1.773	Up
9397	NMT2	N-myristoyltransferase 2	2.108	47.063	Up
1.08E+08	LOC107984210	uncharacterized LOC107984210	2.052	9.785	Up
9317	PTER	phosphotriesterase related	0.41	2.083	Up
8029	CUBN	cubilin	1.932	2.799	Up
1.01E+08	VIM-AS1	VIM antisense RNA 1	1.126	5.921	Up
7431	VIM	vimentin	1.16	4.765	Up
338596	ST8SIA6	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6	1.349	1.858	Up
4360	MRC1	mannose receptor C-type 1	4.379	5.41	Up
84898	PLXDC2	plexin domain containing 2	3.482	9.633	Up
10529	NEBL	nebulette	2.72	1.514	Up
1E+08	LOC100130992	uncharacterized LOC100130992	1.255	1.463	Up
220213	OTUD1	OTU deubiquitinase 1	1.649	35.707	Up

57584	ARHGAP21	Rho GTPase activating protein 21	1.295	3.184	Up
79896	THNSL1	threonine synthase like 1	1.42	5.947	Up
54518	APBB1IP	amyloid beta precursor protein binding family B member 1 interacting protein	1.306	14.357	Up
91452	ACBD5	acyl-CoA binding domain containing 5	0.562	2.516	Up
143098	MPP7	MAGUK p55 scaffold protein 7	2.556	12.369	Up
1.05E+08	LOC105376467	replaced by ID 143098	3.498	6.753	Up
51322	WAC	WW domain containing adaptor with coiled-coil	0.333	1.934	Up
220929	ZNF438	zinc finger protein 438	0.749	2.291	Up
94134	ARHGAP12	Rho GTPase activating protein 12	1.565	11.219	Up
80314	EPC1	enhancer of polycomb homolog 1	0.722	4.248	Up
1.05E+08	LOC105376486		1.599	2.828	Up
3688	ITGB1	integrin subunit beta 1	1.006	6.387	Up
1.07E+08	SNORA86	small nucleolar RNA, H/ACA box 86	1.109	7.596	Up
1.02E+08	IATPR	ITGB1 adjacent tumor promoting lncRNA	2.862	9.094	Up
8829	NRP1	neuropilin 1	1.577	2.648	Up
219771	CCNY	cyclin Y	0.416	1.455	Up
57209	ZNF248	zinc finger protein 248	1.354	12.68	Up
219749	ZNF25	zinc finger protein 25	1.175	16.074	Up
7581	ZNF33A	zinc finger protein 33A	1.058	13.447	Up
7582	ZNF33B	zinc finger protein 33B	2.018	14.9	Up
1.05E+08	LOC105378268	uncharacterized LOC105378268	2.304	9.945	Up
55454	CSGALNACT2	chondroitin sulfate N-acetylgalactosaminyltransferase 2	0.356	1.64	Up
221002	RASGEF1A	RasGEF domain family member 1A	2.453	3.981	Up
642819	ZNF487	zinc finger protein 487	0.798	1.473	Up
220972	MARCHF8	membrane associated ring-CH-type finger 8	1.378	11.757	Up
1.05E+08	LOC105378286	uncharacterized LOC105378286	1.337	4.334	Up
1.01E+08	ANTXRLP1	ANTXR like pseudogene 1	3.966	10.119	Up
1.02E+08	LOC101929216	replaced by ID 105378291	3.008	4.478	Up
58504	ARHGAP22	Rho GTPase activating protein 22	2.096	2.55	Up
57705	WDFY4	WDFY family member 4	2.291	2.754	Up
2074	ERCC6	ERCC excision repair 6, chromatin remodeling factor	1.001	4.653	Up
259230	SGMS1	sphingomyelin synthase 1	0.578	4.312	Up
26091	HERC4	HECT and RLD domain containing E3 ubiquitin protein ligase 4	0.569	4.774	Up
64081	PBLD	phenazine biosynthesis like protein domain containing	1.226	1.811	Up
80312	TET1	tet methylcytosine dioxygenase 1	2.658	7.415	Up
80201	HKDC1	hexokinase domain containing 1	5.907	19.356	Up
55506	MACROH2A2	macroH2A.2 histone	1.565	5.361	Up
219743	TYSND1	trypsin like peroxisomal matrix peptidase 1	1.275	9.736	Up
55222	LRRC20	leucine rich repeat containing 20	0.853	1.592	Up
1979	EIF4EBP2	eukaryotic translation initiation factor 4E binding protein 2	0.62	2.03	Up
55315	SLC29A3	solute carrier family 29 member 3	0.527	1.362	Up
64072	CDH23	cadherin related 23	4.044	13.237	Up

414152	C10orf105	chromosome 10 open reading frame 105	3.897	3.037	Up
64115	VSIR	V-set immunoregulatory receptor	1.55	6.716	Up
5660	PSAP	prosaposin	0.686	3.819	Up
9806	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2	1.602	14.693	Up
25961	NUDT13	nudix hydrolase 13	0.847	1.584	Up
414245	DNAJC9-AS1	DNAJC9 and MRPS16 antisense RNA 1	1.026	1.731	Up
1.02E+08	PPP3CB-AS1	PPP3CB antisense RNA 1 (head to head)	0.832	4.86	Up
1.08E+08	LOC107984243	uncharacterized LOC107984243	1.71	2.279	Up
818	CAMK2G	calcium/calmodulin dependent protein kinase II gamma	1.177	10.657	Up
1.08E+08	LOC107984248	replaced by ID 729262	1.786	2.406	Up
729262	NUTM2B	NUT family member 2B	1.884	6.122	Up
283008	NUTM2E	NUT family member 2E	1.715	10.128	Up
80195	TMEM254	transmembrane protein 254	0.639	1.398	Up
311	ANXA11	annexin A11	0.363	1.683	Up
81619	TSPAN14	tetraspanin 14	1.723	10.235	Up
728118	NUTM2A	NUT family member 2A	1.69	5.848	Up
439994	LINC00863	long intergenic non-protein coding RNA 863	0.941	1.821	Up
728130	NUTM2D	NUT family member 2D	1.968	5.773	Up
9060	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	1.572	1.978	Up
1E+08	KLLN	killin, p53 regulated DNA replication inhibitor	1.042	1.529	Up
5728	PTEN	phosphatase and tensin homolog	0.995	4.774	Up
3988	LIPA	lipase A, lysosomal acid type	0.791	3.518	Up
53354	PANK1	pantothenate kinase 1	1.266	2.143	Up
643529	LINC00865	long intergenic non-protein coding RNA 865	1.634	2.021	Up
80351	TNKS2	tankyrase 2	0.574	3.659	Up
22849	CPEB3	cytoplasmic polyadenylation element binding protein 3	0.47	1.616	Up
118924	FRA10AC1	FRA10A associated CGG repeat 1	0.541	2.275	Up
23232	TBC1D12	TBC1 domain family member 12	1.69	2.067	Up
10023	FRAT1	FRAT regulator of WNT signaling pathway 1	2.365	22.142	Up
23401	FRAT2	FRAT regulator of WNT signaling pathway 2	1.488	10.949	Up
60370	AVPI1	arginine vasopressin induced 1	1.262	3.164	Up
118813	ZFYVE27	zinc finger FYVE-type containing 27	0.408	1.771	Up
401647	GOLGA7B	golgin A7 family member B	1.511	2.709	Up
84795	PYROXD2	pyridine nucleotide-disulphide oxidoreductase domain 2	1.76	2.845	Up
51076	CUTC	cutC copper transporter	0.401	1.802	Up
23268	DNMBP	dynamin binding protein	1.548	7.236	Up
1E+08	DNMBP-AS1	DNMBP antisense RNA 1	1.622	1.539	Up
55719	SLF2	SMC5-SMC6 complex localization factor 2	0.734	3.457	Up
84445	LZTS2	leucine zipper tumor suppressor 2	1.377	10.012	Up
79955	PDZD7	PDZ domain containing 7	1.377	2.817	Up
81855	SFXN3	sideroflexin 3	1.338	8.846	Up
27343	POLL	DNA polymerase lambda	0.712	4.638	Up
8861	LDB1	LIM domain binding 1	0.902	6.419	Up
79946	C10orf95	chromosome 10 open reading frame 95	0.654	1.518	Up
51684	SUFU	SUFU negative regulator of hedgehog signaling	1.078	8.231	Up
81603	TRIM8	tripartite motif containing 8	0.972	4.869	Up
1.05E+08	LOC105378460	uncharacterized LOC105378460	1.106	3.779	Up

54838	WBP1L	WW domain binding protein 1 like	0.761	3.199	Up
54805	CNNM2	cyclin and CBS domain divalent metal cation transport mediator 2	0.321	1.636	Up
51063	CALHM2	calcium homeostasis modulator family member 2	2.692	14.207	Up
79991	STN1	STN1 subunit of CST complex	0.891	6.366	Up
85450	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein	0.379	1.875	Up
1.01E+08	ADD3-AS1	ADD3 antisense RNA 1	1.711	8.043	Up
120	ADD3	adducin 3	2.115	30.49	Up
4601	MXI1	MAX interactor 1, dimerization protein	1.351	19.846	Up
282997	PDCD4-AS1	PDCD4 antisense RNA 1	2.626	16.559	Up
27250	PDCD4	programmed cell death 4	1.642	9.85	Up
1.01E+08	MIR4680	microRNA 4680	1.684	5.715	Up
92482	BBIP1	BBSome interacting protein 1	0.944	4.093	Up
150	ADRA2A	adrenoceptor alpha 2A	4.056	4.398	Up
55088	CCDC186	coiled-coil domain containing 186	0.423	1.321	Up
84632	AFAP1L2	actin filament associated protein 1 like 2	1.837	5.069	Up
3983	ABLIM1	actin binding LIM protein 1	1.344	4.036	Up
387712	ENO4	enolase 4	2.066	1.479	Up
57698	SHTN1	shootin 1	1.814	1.429	Up
22841	RAB11FIP2	RAB11 family interacting protein 2	0.481	3.237	Up
9531	BAG3	BAG cochaperone 3	0.706	3.623	Up
2263	FGFR2	fibroblast growth factor receptor 2	2.038	1.505	Up
59338	PLEKHA1	pleckstrin homology domain containing A1	1.435	13.76	Up
1.01E+08	FAM24B-CUZD1	FAM24B-CUZD1 readthrough	1.334	2.017	Up
50624	CUZD1	CUB and zona pellucida like domains 1	1.938	1.62	Up
196792	FAM24B	family with sequence similarity 24 member B	1.401	3.252	Up
399815	C10orf88B	C10orf88B (pseudogene)	0.885	1.473	Up
64376	IKZF5	IKAROS family zinc finger 5	0.47	3.546	Up
36	ACADSB	acyl-CoA dehydrogenase short/branched chain	0.336	1.609	Up
64077	LHPP	phospholysine phosphohistidine inorganic pyrophosphate phosphatase	1.329	10	Up
1.05E+08	LOC105378539		0.814	3.574	Up
9679	FAM53B	family with sequence similarity 53 member B	0.719	2.511	Up
54764	ZRANB1	zinc finger RANBP2-type containing 1	0.6	2.956	Up
1488	CTBP2	C-terminal binding protein 2	0.683	4.756	Up
80313	LRRC27	leucine rich repeat containing 27	0.925	1.339	Up
51272	BET1L	Bet1 golgi vesicular membrane trafficking protein like	0.929	15.596	Up
23410	SIRT3	sirtuin 3	0.787	7.662	Up
59307	SIGIRR	single Ig and TIR domain containing	2.089	33.451	Up
256329	LMNTD2	lamin tail domain containing 2	1.302	1.386	Up
8045	RASSF7	Ras association domain family member 7	0.917	2.253	Up
143666	LOC143666	uncharacterized LOC143666	3.079	5.891	Up
283232	TMEM80	transmembrane protein 80	1.821	12.122	Up
171391	GATD1-DT	GATD1 divergent transcript	1.166	1.332	Up
57104	PNPLA2	patatin like phospholipase domain containing 2	0.785	3.543	Up
255512	TOLLIP-DT	TOLLIP divergent transcript	1.868	2.524	Up
81532	MOB2	MOB kinase activator 2	0.755	3.695	Up
338651	KRTAP5-AS1	KRTAP5-1/KRTAP5-2 antisense RNA 1	3.05	6.847	Up

387264	KRTAP5-1	keratin associated protein 5-1	2.979	1.754	Up
440021	KRTAP5-2	keratin associated protein 5-2	2.835	2.838	Up
402778	IFITM10	interferon induced transmembrane protein 10	0.889	1.349	Up
1509	CTSD	cathepsin D	0.884	4.898	Up
4046	LSP1	lymphocyte specific protein 1	0.946	4.706	Up
1.02E+08	MIR7847	microRNA 7847	1	6.377	Up
7140	TNNT3	troponin T3, fast skeletal type	3.326	4.134	Up
29125	C11orf21	chromosome 11 open reading frame 21	3.76	7.291	Up
10077	TSPAN32	tetraspanin 32	2.953	5.914	Up
3784	KCNQ1	potassium voltage-gated channel subfamily Q member 1	1.372	13.89	Up
10984	KCNQ1OT1	KCNQ1 opposite strand/antisense transcript 1	0.951	2.103	Up
1028	CDKN1C	cyclin dependent kinase inhibitor 1C	1.382	3.632	Up
5003	SLC22A18AS	SLC22A18 antisense RNA	2.045	1.734	Up
5002	SLC22A18	solute carrier family 22 member 18	1.689	7.212	Up
6786	STIM1	stromal interaction molecule 1	0.473	3.823	Up
55128	TRIM68	tripartite motif containing 68	1.04	10.463	Up
445372	TRIM6-TRIM34	TRIM6-TRIM34 readthrough	0.958	1.823	Up
53840	TRIM34	tripartite motif containing 34	0.958	1.835	Up
160298	C11orf42	chromosome 11 open reading frame 42	1.749	2	Up
6609	SMPD1	sphingomyelin phosphodiesterase 1	1.138	1.878	Up
322	APBB1	amyloid beta precursor protein binding family B member 1	0.892	3.614	Up
10612	TRIM3	tripartite motif containing 3	0.74	2.366	Up
1200	TPP1	tripeptidyl peptidase 1	1.323	13.395	Up
8642	DCHS1	dachsous cadherin-related 1	1.876	3.423	Up
8665	EIF3F	eukaryotic translation initiation factor 3 subunit F	0.709	1.722	Up
56672	AKIP1	A-kinase interacting protein 1	0.673	1.927	Up
493900	TMEM9B-AS1	TMEM9B antisense RNA 1	1.618	2.969	Up
440026	TMEM41B	transmembrane protein 41B	0.506	2.764	Up
272	AMPD3	adenosine monophosphate deaminase 3	0.506	2.219	Up
1E+08	MTRNR2L8	MT-RNR2 like 8 (pseudogene)	1.331	1.402	Up
50862	RNF141	ring finger protein 141	0.374	1.733	Up
58486	ZBED5	zinc finger BED-type containing 5	0.546	2.835	Up
729013	ZBED5-AS1	ZBED5 antisense RNA 1	1.082	3.268	Up
1.05E+08	LOC105376548	uncharacterized LOC105376548	5.53	25.913	Up
27122	DKK3	dickkopf WNT signaling pathway inhibitor 3	3.62	4.351	Up
55742	PARVA	parvin alpha	2.105	3.778	Up
406	BMAL1	basic helix-loop-helix ARNT like 1	0.749	4.549	Up
10418	SPON1	spondin 1	5.407	192.285	Up
5140	PDE3B	phosphodiesterase 3B	1.758	19.701	Up
120227	CYP2R1	cytochrome P450 family 2 subfamily R member 1	0.623	1.372	Up
4925	NUCB2	nucleobindin 2	1.092	2.983	Up
144110	TMEM86A	transmembrane protein 86A	1.499	3.972	Up
283284	IGSF22	immunoglobulin superfamily member 22	1.035	1.377	Up
89797	NAV2	neuron navigator 2	3.176	2.999	Up
2188	FANCF	FA complementation group F	0.616	2.071	Up
2620	GAS2	growth arrest specific 2	1.519	1.8	Up
258010	SVIP	small VCP interacting protein	0.594	1.721	Up

55366	LGR4	leucine rich repeat containing G protein-coupled receptor 4	1.389	1.666	Up
497258	BDNF-AS	BDNF antisense RNA	1.503	1.627	Up
5080	PAX6	paired box 6	1.003	2.135	Up
79832	QSER1	glutamine and serine rich 1	0.601	2.984	Up
91614	DEPDC7	DEP domain containing 7	2.423	3.046	Up
10114	HIPK3	homeodomain interacting protein kinase 3	0.615	2.765	Up
26273	FBXO3	F-box protein 3	0.987	5.299	Up
4005	LMO2	LIM domain only 2	1.747	2.73	Up
847	CAT	catalase	0.824	8.932	Up
5896	RAG1	recombination activating 1	2.612	3.512	Up
55761	TTC17	tetratricopeptide repeat domain 17	0.458	1.612	Up
84680	ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (inactive)	1.329	1.679	Up
90139	TSPAN18	tetraspanin 18	2.334	30.859	Up
1408	CRY2	cryptochrome circadian regulator 2	0.556	1.974	Up
8525	DGKZ	diacylglycerol kinase zeta	0.898	5.622	Up
9776	ATG13	autophagy related 13	0.526	2.036	Up
392	ARHGAP1	Rho GTPase activating protein 1	0.435	1.892	Up
8567	MADD	MAP kinase activating death domain	0.663	2.716	Up
6688	SPI1	Spi-1 proto-oncogene	2.417	4.406	Up
91252	SLC39A13	solute carrier family 39 member 13	0.955	10.625	Up
114900	C1QTNF4	C1q and TNF related 4	2.396	2.084	Up
5795	PTPRJ	protein tyrosine phosphatase receptor type J	1.262	6.285	Up
219539	YPEL4	yippee like 4	4.083	12.805	Up
1500	CTNND1	catenin delta 1	0.614	1.667	Up
1.02E+08	FAM111A-DT	FAM111A divergent transcript	1.83	4.646	Up
63901	FAM111A	FAM111 trypsin like peptidase A	1.391	7.937	Up
23220	DTX4	deltex E3 ubiquitin ligase 4	3.474	9.442	Up
219972	MPEG1	macrophage expressed 1	3.762	4.672	Up
932	MS4A3	membrane spanning 4-domains A3	2.578	1.324	Up
64231	MS4A6A	membrane spanning 4-domains A6A	2.107	1.414	Up
58475	MS4A7	membrane spanning 4-domains A7	5.156	2.817	Up
931	MS4A1	membrane spanning 4-domains A1	1.669	3.088	Up
1.08E+08	PRPF19-DT	PRPF19 divergent transcript	2.207	1.558	Up
923	CD6	CD6 molecule	0.41	2.441	Up
921	CD5	CD5 molecule	1.162	6.099	Up
26007	TKFC	triokinase and FMN cyclase	0.361	1.609	Up
220002	CYB561A3	cytochrome b561 family member A3	0.511	1.691	Up
1.08E+08	LOC107984334	uncharacterized LOC107984334	1.255	1.638	Up
79026	AHNAK	AHNAK nucleoprotein	1.958	6.467	Up
51035	UBXN1	UBX domain protein 1	0.661	1.76	Up
26580	BSCL2	BSCL2 lipid droplet biogenesis associated, seipin	1.258	8.428	Up
2785	GNG3	G protein subunit gamma 3	2.181	7.086	Up
79842	ZBTB3	zinc finger and BTB domain containing 3	0.839	1.837	Up
23642	SNHG1	small nucleolar RNA host gene 1	1.636	6.833	Up
117245	PLAAT5	phospholipase A and acyltransferase 5	2.897	1.792	Up
10313	RTN3	reticulon 3	0.595	1.725	Up
3338	DNAJC4	DnaJ heat shock protein family (Hsp40) member C4	1.655	19.2	Up

9379	NRXN2	neurexin 2	2.108	1.671	Up
10235	RASGRP2	RAS guanyl releasing protein 2	3.211	66.34	Up
5837	PYGM	glycogen phosphorylase, muscle associated	1.553	1.353	Up
5871	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2	0.724	5.668	Up
55561	CDC42BPG	CDC42 binding protein kinase gamma	2.03	4.638	Up
10938	EHD1	EH domain containing 1	0.763	3.961	Up
29907	SNX15	sorting nexin 15	0.425	2.251	Up
283130	SLC25A45	solute carrier family 25 member 45	1.205	5.141	Up
4054	LTBP3	latent transforming growth factor beta binding protein 3	0.983	8.85	Up
6494	SIPA1	signal-induced proliferation-associated 1	0.851	1.609	Up
83638	C11orf68	chromosome 11 open reading frame 68	1.244	14.408	Up
55690	PACS1	phosphofurin acidic cluster sorting protein 1	1.621	11.289	Up
9610	RIN1	Ras and Rab interactor 1	0.914	2.162	Up
11041	B4GAT1	beta-1,4-glucuronyltransferase 1	1.462	10.911	Up
582	BBS1	Bardet-Biedl syndrome 1	1.059	4.975	Up
254359	ZDHHC24	zinc finger DHHC-type containing 24	0.574	1.86	Up
8722	CTSF	cathepsin F	3.103	32.47	Up
156	GRK2	G protein-coupled receptor kinase 2	0.464	2.029	Up
57804	POLD4	DNA polymerase delta 4, accessory subunit	0.99	4.213	Up
374403	TBC1D10C	TBC1 domain family member 10C	1.259	7.696	Up
1.05E+08	LINC02754	long intergenic non-protein coding RNA 2754	1.726	2.112	Up
221	ALDH3B1	aldehyde dehydrogenase 3 family member B1	1.782	1.357	Up
220064	LTO1	LTO1 maturation factor of ABCE1	0.931	2.933	Up
4926	NUMA1	nuclear mitotic apparatus protein 1	1.188	2.597	Up
1E+08	LOC100128494	uncharacterized LOC100128494	1.229	2.412	Up
116985	ARAP1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	0.612	2.24	Up
1.05E+08	LOC105369380		1.277	1.485	Up
5031	P2RY6	pyrimidinergic receptor P2Y6	4.309	5.112	Up
23201	FAM168A	family with sequence similarity 168 member A	0.806	3.592	Up
58473	PLEKHB1	pleckstrin homology domain containing B1	1.787	17.235	Up
7351	UCP2	uncoupling protein 2	1.068	6.118	Up
283209	PGM2L1	phosphoglucomutase 2 like 1	1.743	3.582	Up
10008	KCNE3	potassium voltage-gated channel subfamily E regulatory subunit 3	4.251	2.691	Up
387787	LIPT2	lipoyl(octanoyl) transferase 2	1.045	5.754	Up
1E+08	LIPT2-AS1	LIPT2 antisense RNA 1	2.256	9.534	Up
11309	SLCO2B1	solute carrier organic anion transporter family member 2B1	3.182	4.035	Up
408	ARRB1	arrestin beta 1	1.299	10.989	Up
81544	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5	1.714	7.4	Up
7405	UVRAG	UV radiation resistance associated	0.382	1.328	Up
1.01E+08	GVQW3	GVQW motif containing 3	1.922	5.354	Up
726	CAPN5	calpain 5	1.332	4.086	Up
4647	MYO7A	myosin VIIA	2.789	1.889	Up
28971	AAMDC	adipogenesis associated Mth938 domain containing	1.019	2.199	Up
1E+08	KCTD21-AS1	KCTD21 antisense RNA 1	1.035	1.901	Up

283219	KCTD21	potassium channel tetramerization domain containing 21	1.127	2.513	Up
338699	ANKRD42	ankyrin repeat domain 42	1.098	3.052	Up
1740	DLG2	discs large MAGUK scaffold protein 2	1.37	2.25	Up
58487	CREBZF	CREB/ATF bZIP transcription factor	0.491	1.331	Up
54843	SYTL2	synaptotagmin like 2	1.023	1.627	Up
79101	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D	1.082	4.608	Up
4361	MRE11	MRE11 homolog, double strand break repair nuclease	0.449	1.949	Up
54851	ANKRD49	ankyrin repeat domain 49	0.615	3.639	Up
143689	PIWIL4	piwi like RNA-mediated gene silencing 4	2.092	2.902	Up
10929	SRSF8	serine and arginine rich splicing factor 8	0.667	6.221	Up
1E+08	LOC100129203	uncharacterized LOC100129203	1.986	8.988	Up
143684	FAM76B	family with sequence similarity 76 member B	0.512	2.473	Up
9702	CEP57	centrosomal protein 57	1.017	6.023	Up
84441	MAML2	mastermind like transcriptional coactivator 2	1.122	4.036	Up
329	BIRC2	baculoviral IAP repeat containing 2	0.694	1.794	Up
114908	TMEM123	transmembrane protein 123	1.213	5.728	Up
79659	DYNC2H1	dynein cytoplasmic 2 heavy chain 1	1.614	3.547	Up
80310	PDGFD	platelet derived growth factor D	1.858	1.502	Up
114769	CARD16	caspase recruitment domain family member 16	0.96	2.463	Up
143879	KBTBD3	kelch repeat and BTB domain containing 3	1.521	6.282	Up
1.05E+08	LOC105369477	uncharacterized LOC105369477	0.894	2.638	Up
143884	CWF19L2	CWF19 like cell cycle control factor 2	0.468	1.707	Up
472	ATM	ATM serine/threonine kinase	2.504	27.208	Up
160140	C11orf65	chromosome 11 open reading frame 65	2.45	9.785	Up
23235	SIK2	salt inducible kinase 2	0.872	2.496	Up
283140	LINC02762	long intergenic non-protein coding RNA 2762	3.73	3.833	Up
23705	CADM1	cell adhesion molecule 1	0.913	2.191	Up
51092	SIDT2	SID1 transmembrane family member 2	1.314	14.5	Up
1.01E+08	LOC100652768	uncharacterized LOC100652768	1.269	4.618	Up
23621	BACE1	beta-secretase 1	1.251	3.867	Up
486	FXYD2	FXYD domain containing ion transport regulator 2	1.985	2.52	Up
1.01E+08	FXYD6-FXYD2	FXYD6-FXYD2 readthrough	1.868	2.285	Up
84000	TMPRSS13	transmembrane serine protease 13	1.174	1.574	Up
3587	IL10RA	interleukin 10 receptor subunit alpha	0.963	2.919	Up
1.01E+08	SMIM35	small integral membrane protein 35	0.958	3.171	Up
120425	JAML	junction adhesion molecule like	0.582	2.442	Up
916	CD3E	CD3 epsilon subunit of T-cell receptor complex	0.914	4.887	Up
917	CD3G	CD3 gamma subunit of T-cell receptor complex	1.553	7.878	Up
84866	TMEM25	transmembrane protein 25	0.524	1.736	Up
1.05E+08	LOC105369519	uncharacterized LOC105369519	3.616	3.779	Up
1656	DDX6	DEAD-box helicase 6	0.763	5.257	Up
643	CXCR5	C-X-C motif chemokine receptor 5	1.319	4.673	Up
283149	BCL9L	BCL9 like	2.593	9.646	Up
55823	VPS11	VPS11 core subunit of CORVET and HOPS complexes	0.729	2.403	Up
25988	HINFP	histone H4 transcription factor	0.467	1.61	Up

79102	RNF26	ring finger protein 26	0.677	3.686	Up
219899	TBCEL	tubulin folding cofactor E like	0.847	5.154	Up
1.05E+08	SORL1-AS1	SORL1 antisense RNA 1	2.866	10.69	Up
6653	SORL1	sortilin related receptor 1	3.318	34.813	Up
84959	UBASH3B	ubiquitin associated and SH3 domain containing B	1.165	2.72	Up
1.02E+08	LOC101929289		3.251	2.425	Up
79827	CLMP	CXADR like membrane protein	1.412	1.674	Up
4013	VWA5A	von Willebrand factor A domain containing 5A	0.596	2.199	Up
54414	SIAE	sialic acid acetylesterase	0.609	2.409	Up
90952	ESAM	endothelial cell adhesion molecule	1.383	2.382	Up
80071	CCDC15	coiled-coil domain containing 15	1.629	4.824	Up
219855	SLC37A2	solute carrier family 37 member 2	4.479	10.469	Up
2113	ETS1	ETS proto-oncogene 1, transcription factor	0.503	1.871	Up
2313	FLI1	Fli-1 proto-oncogene, ETS transcription factor	1.018	5.081	Up
219833	KCNJ5-AS1	KCNJ5 antisense RNA 1	2.828	2.716	Up
9743	ARHGAP32	Rho GTPase activating protein 32	1.14	1.732	Up
120224	TMEM45B	transmembrane protein 45B	3.307	11.038	Up
4798	NFRKB	nuclear factor related to kappaB binding protein	0.875	2.805	Up
56980	PRDM10	PR/SET domain 10	0.597	3.631	Up
29068	ZBTB44	zinc finger and BTB domain containing 44	1.045	5.425	Up
1.04E+08	LOC103611081	replaced by ID 399979	1.079	3.018	Up
283174	MIR4697HG	replaced by ID 22997	1.948	4.228	Up
22997	IGSF9B	immunoglobulin superfamily member 9B	1.405	1.609	Up
1E+08	LINC02731	long intergenic non-protein coding RNA 2731	2.349	1.435	Up
112936	VPS26B	VPS26 retromer complex component B	1.009	30.583	Up
1E+08	NINJ2-AS1	NINJ2 antisense RNA 1	1.058	1.887	Up
5893	RAD52	RAD52 homolog, DNA repair protein	0.657	2.481	Up
81029	WNT5B	Wnt family member 5B	2.91	3.624	Up
144699	FBXL14	F-box and leucine rich repeat protein 14	0.774	4.312	Up
196513	DCP1B	decapping mRNA 1B	0.547	3.174	Up
1.01E+08	CACNA1C-AS1	CACNA1C antisense RNA 1	1.475	2.048	Up
55846	ITFG2	integrin alpha FG-GAP repeat containing 2	0.515	4.515	Up
83714	NRIP2	nuclear receptor interacting protein 2	2.015	3.414	Up
1.05E+08	PARP11-AS1	PARP11 antisense RNA 1	3.473	12.294	Up
928	CD9	CD9 molecule	1.824	14.432	Up
7132	TNFRSF1A	TNF receptor superfamily member 1A	0.663	1.314	Up
6337	SCNN1A	sodium channel epithelial 1 subunit alpha	3.735	5.273	Up
678655	CD27-AS1	CD27 antisense RNA 1	2.11	9.351	Up
939	CD27	CD27 molecule	2.107	8.345	Up
6843	VAMP1	vesicle associated membrane protein 1	1.156	2.107	Up
9918	NCAPD2	non-SMC condensin I complex subunit D2	0.614	3.423	Up
1.12E+08	GAPDH-DT	GAPDH divergent transcript	0.542	2.804	Up
25900	IFFO1	intermediate filament family orphan 1	1.322	1.991	Up
57121	LPAR5	lysophosphatidic acid receptor 5	1.128	5.008	Up
51147	ING4	inhibitor of growth family member 4	1.478	8.613	Up
920	CD4	CD4 molecule	1.055	8.705	Up

84727	SPSB2	splA/ryanodine receptor domain and SOCS box containing 2	0.681	1.657	Up
10233	LRRC23	leucine rich repeat containing 23	1.38	2.424	Up
113246	C12orf57	chromosome 12 open reading frame 57	0.774	1.802	Up
51279	C1RL	complement C1r subcomponent like	0.899	1.542	Up
9746	CLSTN3	calsyntenin 3	1.265	8.133	Up
55810	FOXJ2	forkhead box J2	0.923	5.493	Up
719	C3AR1	complement C3a receptor 1	1.14	1.655	Up
50856	CLEC4A	C-type lectin domain family 4 member A	2.231	2.02	Up
440078	FAM66C	family with sequence similarity 66 member C	2.04	4.489	Up
1911	PHC1	polyhomeotic homolog 1	0.257	1.373	Up
10219	KLRG1	killer cell lectin like receptor G1	1.432	1.41	Up
144571	A2M-AS1	A2M antisense RNA 1	2.416	1.646	Up
2	A2M	alpha-2-macroglobulin	3.052	6.566	Up
5858	PZP	PZP alpha-2-macroglobulin like	2.335	1.717	Up
3820	KLRB1	killer cell lectin like receptor B1	2.324	11.972	Up
1.08E+08	LOC107987174		2.516	12.269	Up
374443	LOC374443	C-type lectin domain family 2 member D pseudogene	1.104	13.321	Up
1.05E+08	LINC02390	long intergenic non-protein coding RNA 2390	1.165	1.991	Up
51348	KLRF1	killer cell lectin like receptor F1	1.814	2.159	Up
9976	CLEC2B	C-type lectin domain family 2 member B	0.96	3.396	Up
64581	CLEC7A	C-type lectin domain containing 7A	2.014	2.074	Up
4973	OLR1	oxidized low density lipoprotein receptor 1	3.64	3.882	Up
1.01E+08	KLRC4-KLRK1	KLRC4-KLRK1 readthrough	0.71	2.489	Up
22914	KLRK1	killer cell lectin like receptor K1	0.669	1.819	Up
1.08E+08	LOC107984485		1.07	3.649	Up
80824	DUSP16	dual specificity phosphatase 16	0.82	2.046	Up
1389	CREBL2	cAMP responsive element binding protein like 2	0.969	4.653	Up
2842	GPR19	G protein-coupled receptor 19	0.79	4.595	Up
1027	CDKN1B	cyclin dependent kinase inhibitor 1B	1.235	9.674	Up
1.05E+08	LOC105369663	uncharacterized LOC105369663	1.291	8.133	Up
81575	APOLD1	apolipoprotein L domain containing 1	0.884	2.191	Up
50865	HEBP1	heme binding protein 1	0.665	2.823	Up
93164	HTR7P1	5-hydroxytryptamine receptor 7 pseudogene 1	1.217	3.491	Up
55729	ATF7IP	activating transcription factor 7 interacting protein	0.827	2.92	Up
79887	PLBD1	phospholipase B domain containing 1	2.571	3.068	Up
121506	ERP27	endoplasmic reticulum protein 27	1.856	8.411	Up
397	ARHGDIB	Rho GDP dissociation inhibitor beta	1.169	4.248	Up
5800	PTPRO	protein tyrosine phosphatase receptor type O	2.515	11.478	Up
4257	MGST1	microsomal glutathione S-transferase 1	1.941	2.875	Up
54477	PLEKHA5	pleckstrin homology domain containing A5	0.697	1.314	Up
6489	ST8SIA1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1	0.578	1.769	Up
9847	C2CD5	C2 calcium dependent domain containing 5	0.761	3.939	Up
645177	LOC645177	replaced by ID 4033	2.085	2.113	Up
4033	IRAG2	inositol 1,4,5-triphosphate receptor associated 2	2.7	12.254	Up
144363	ETFRF1	electron transfer flavoprotein regulatory factor 1	1.049	3.818	Up

57542	KLHL42	kelch like family member 42	0.515	1.468	Up
1.02E+08	LOC101928705		0.958	1.567	Up
65981	CAPRIN2	caprin family member 2	1.082	2.549	Up
160518	DENND5B	DENN domain containing 5B	2.184	2.629	Up
254013	ETFBKMT	electron transfer flavoprotein subunit beta lysine methyltransferase	0.587	1.347	Up
196394	AMN1	antagonist of mitotic exit network 1 homolog	0.524	1.345	Up
121512	FGD4	FYVE, RhoGEF and PH domain containing 4	1.64	1.417	Up
225	ABCD2	ATP binding cassette subfamily D member 2	1.511	5.099	Up
114134	SLC2A13	solute carrier family 2 member 13	0.682	3.212	Up
120892	LRRK2	leucine rich repeat kinase 2	4.971	3.776	Up
4753	NELL2	neural EGFL like 2	2.05	14.169	Up
51054	PLEKHA8P1	pleckstrin homology domain containing A8 pseudogene 1	2.009	12.277	Up
196527	ANO6	anoctamin 6	0.808	6.911	Up
400027	LINC00938	long intergenic non-protein coding RNA 938	0.453	1.607	Up
9169	SCAF11	SR-related CTD associated factor 11	0.607	2.146	Up
1E+08	SLC38A4-AS1	SLC38A4 antisense RNA 1	2.494	2.46	Up
347902	AMIGO2	adhesion molecule with Ig like domain 2	1.011	2.395	Up
140461	ASB8	ankyrin repeat and SOCS box containing 8	0.634	5.131	Up
121274	ZNF641	zinc finger protein 641	0.767	2.672	Up
85478	CCDC65	coiled-coil domain containing 65	3.995	29.709	Up
7480	WNT10B	Wnt family member 10B	1.983	1.931	Up
7471	WNT1	Wnt family member 1	2.236	5.784	Up
55716	LMBR1L	limb development membrane protein 1 like	0.811	8.179	Up
144233	BCDIN3D	BCDIN3 domain containing RNA methyltransferase	0.677	2.249	Up
25840	METTL7A	methyltransferase like 7A	2.46	9.948	Up
25875	LETMD1	LETM1 domain containing 1	1.726	17.001	Up
5463	POU6F1	POU class 6 homeobox 1	1.244	6.496	Up
57228	SMAGP	small cell adhesion glycoprotein	1.341	6.282	Up
1.03E+08	LOC102723983		1.841	1.748	Up
51411	BIN2	bridging integrator 2	1.05	2.998	Up
1.05E+08	LOC105369767	uncharacterized LOC105369767	1.205	2.333	Up
1990	CELA1	chymotrypsin like elastase 1	3.356	4.86	Up
140807	KRT72	keratin 72	5.07	9.551	Up
319101	KRT73	keratin 73	6.076	19	Up
1E+08	KRT73-AS1	KRT73 antisense RNA 1	6.499	20.015	Up
1.05E+08	LOC105369772	replaced by ID 319101	4.974	10.79	Up
3849	KRT2	keratin 2	8.572	9.111	Up
1975	EIF4B	eukaryotic translation initiation factor 4B	0.639	2.926	Up
283337	ZNF740	zinc finger protein 740	0.606	5.499	Up
3695	ITGB7	integrin subunit beta 7	0.538	1.86	Up
5204	PFDN5	prefoldin subunit 5	0.906	1.418	Up
1.12E+08	MYG1-AS1	MYG1 antisense RNA 1	0.916	1.47	Up
1.02E+08	PCBP2-OT1	PCBP2 overlapping transcript 1	0.517	1.682	Up
7786	MAP3K12	mitogen-activated protein kinase kinase kinase 12	0.361	1.325	Up
57658	CALCOCO1	calcium binding and coiled-coil domain 1	1.943	31.191	Up

4778	NFE2	nuclear factor, erythroid 2	1.689	3.139	Up
1.03E+08	GPR84-AS1	GPR84, ZNF385A, ITGA5 and GTSF1 antisense RNA 1	2.328	6.637	Up
3678	ITGA5	integrin subunit alpha 5	2.573	11.385	Up
9840	TESPA1	thymocyte expressed, positive selection associated 1	0.617	1.614	Up
1.08E+08	LOC107984515	uncharacterized LOC107984515	2.418	6.151	Up
440104	TMEM198B	transmembrane protein 198B (pseudogene)	1.613	9.538	Up
4327	MMP19	matrix metallopeptidase 19	1.662	2.625	Up
1606	DGKA	diacylglycerol kinase alpha	1.112	9.738	Up
6490	PMEL	premelanosome protein	2.163	1.763	Up
5869	RAB5B	RAB5B, member RAS oncogene family	0.897	9.733	Up
6821	SUOX	sulfite oxidase	0.911	8.528	Up
2065	ERBB3	erb-b2 receptor tyrosine kinase 3	3.193	4.18	Up
84872	ZC3H10	zinc finger CCCH-type containing 10	0.414	1.96	Up
23344	ESYT1	extended synaptotagmin 1	0.789	3.641	Up
9924	PAN2	poly(A) specific ribonuclease subunit PAN2	1.405	11.029	Up
8608	RDH16	retinol dehydrogenase 16	1.64	1.379	Up
4035	LRP1	LDL receptor related protein 1	2.071	8.328	Up
22864	R3HDM2	R3H domain containing 2	1.299	2.874	Up
2735	GLI1	GLI family zinc finger 1	1.244	5.148	Up
64333	ARHGAP9	Rho GTPase activating protein 9	1.286	9.834	Up
116986	AGAP2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	0.63	3.165	Up
1E+08	AGAP2-AS1	AGAP2 antisense RNA 1	0.604	2.614	Up
92979	MARCHF9	membrane associated ring-CH-type finger 9	0.497	2.572	Up
25895	EEF1AKMT3	EEF1A lysine methyltransferase 3	1.937	2.741	Up
10106	CTDSP2	CTD small phosphatase 2	1.7	7.619	Up
338811	TAFA2	TAFA chemokine like family member 2	2.397	5.051	Up
57460	PPM1H	protein phosphatase, Mg2+/Mn2+ dependent 1H	1.996	2.14	Up
1.13E+08	MIR10527	microRNA 10527	1.223	3.563	Up
144577	KICS2	KICSTOR subunit 2	0.643	2.944	Up
283349	RASSF3	Ras association domain family member 3	2.005	20.191	Up
253827	MSRB3	methionine sulfoxide reductase B3	1.372	1.403	Up
23426	GRIP1	glutamate receptor interacting protein 1	1.105	1.616	Up
8445	DYRK2	dual specificity tyrosine phosphorylation regulated kinase 2	1.75	21.864	Up
1.05E+08	LOC105369816	uncharacterized LOC105369816	1.988	5.488	Up
56890	MDM1	Mdm1 nuclear protein	0.582	3.022	Up
55508	SLC35E3	solute carrier family 35 member E3	1.289	11.271	Up
4069	LYZ	lysozyme	3.704	3.328	Up
10818	FRS2	fibroblast growth factor receptor substrate 2	0.642	2.562	Up
1.02E+08	PRANCR	progenitor renewal associated non-coding RNA	1.182	2.902	Up
27345	KCNMB4	potassium calcium-activated channel subfamily M regulatory beta subunit 4	2.488	7.45	Up
55266	TMEM19	transmembrane protein 19	0.628	1.646	Up
64786	TBC1D15	TBC1 domain family member 15	0.693	4.304	Up
552889	ATXN7L3B	ataxin 7 like 3B	0.661	2.056	Up
144321	GLIPR1L2	GLIPR1 like 2	1.633	1.859	Up

11010	GLIPR1	GLI pathogenesis related 1	0.704	2.892	Up
79738	BBS10	Bardet-Biedl syndrome 10	0.994	7.934	Up
114882	OSBPL8	oxysterol binding protein like 8	1.222	6.467	Up
160418	TMTC3	transmembrane O-mannosyltransferase targeting cadherins 3	0.491	1.77	Up
490	ATP2B1	ATPase plasma membrane Ca2+ transporting 1	0.963	6.003	Up
1.05E+08	LOC105369901	uncharacterized LOC105369901	2.994	1.788	Up
694	BTG1	BTG anti-proliferation factor 1	1.087	3.585	Up
1.02E+08	BTG1-DT	BTG1 divergent transcript	2.248	5.089	Up
8411	EEA1	early endosome antigen 1	1.302	6.556	Up
8738	CRADD	CASP2 and RIPK1 domain containing adaptor with death domain	0.82	1.917	Up
10154	PLXNC1	plexin C1	0.702	1.854	Up
57458	TMCC3	transmembrane and coiled-coil domain family 3	1.661	1.655	Up
7181	NR2C1	nuclear receptor subfamily 2 group C member 1	0.432	2.175	Up
59277	NTN4	netrin 4	3.104	5.74	Up
317	APAF1	apoptotic peptidase activating factor 1	0.818	2.215	Up
56899	ANKS1B	ankyrin repeat and sterile alpha motif domain containing 1B	0.845	2.337	Up
79158	GNPTAB	N-acetylglucosamine-1-phosphate transferase subunits alpha and beta	1.154	7.66	Up
374470	C12orf42	chromosome 12 open reading frame 42	4.136	15.299	Up
29915	HCFC2	host cell factor C2	0.481	2.321	Up
23325	WASHC4	WASH complex subunit 4	0.78	6.452	Up
55198	APPL2	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2	1.345	8.642	Up
255394	TCP11L2	t-complex 11 like 2	3.187	26.589	Up
80298	MTERF2	mitochondrial transcription termination factor 2	0.454	1.441	Up
121551	ABTB3	ankyrin repeat and BTB domain containing 3	1.801	5.244	Up
1240	CMKLR1	chemerin chemokine-like receptor 1	4.25	4.517	Up
338773	TMEM119	transmembrane protein 119	4.158	4.535	Up
6404	SELPLG	selectin P ligand	2.14	47.348	Up
84749	USP30	ubiquitin specific peptidase 30	0.693	3.365	Up
32	ACACB	acetyl-CoA carboxylase beta	2.915	9.502	Up
84260	TCHP	trichoplein keratin filament binding	0.633	1.489	Up
88455	ANKRD13A	ankyrin repeat domain 13A	0.266	2.199	Up
79600	TCTN1	tectonic family member 1	2.165	4.921	Up
84329	HVCN1	hydrogen voltage gated channel 1	3.553	8.064	Up
8315	BRAP	BRCA1 associated protein	0.316	1.449	Up
80724	ACAD10	acyl-CoA dehydrogenase family member 10	0.602	2.036	Up
217	ALDH2	aldehyde dehydrogenase 2 family member	2.362	3.595	Up
51275	MAPKAPK5-AS1	MAPKAPK5 antisense RNA 1	1.081	8.129	Up
89894	TMEM116	transmembrane protein 116	2.06	18.52	Up
10961	ERP29	endoplasmic reticulum protein 29	1.088	4.351	Up
8437	RASAL1	RAS protein activator like 1	1.168	1.713	Up
53373	TPCN1	two pore segment channel 1	1.433	8.724	Up
80024	SLC8B1	solute carrier family 8 member B1	1.605	14.412	Up
10993	SDS	serine dehydratase	4.129	2.071	Up
23389	MED13L	mediator complex subunit 13L	0.679	2.12	Up

4842	NOS1	nitric oxide synthase 1	4.811	2.137	Up
51347	TAOK3	TAO kinase 3	0.587	3.129	Up
1.01E+08	PXN-AS1	PXN antisense RNA 1	0.94	4.914	Up
5829	PXN	paxillin	1.15	8.801	Up
84747	UNC119B	unc-119 lipid binding chaperone B	0.874	9.74	Up
1.01E+08	MIR4700	microRNA 4700	1.142	2.817	Up
121665	SPPL3	signal peptide peptidase like 3	0.51	2.16	Up
84678	KDM2B	lysine demethylase 2B	0.526	1.49	Up
1.02E+08	KDM2B-DT	KDM2B divergent transcript	4.313	2.568	Up
283385	MORN3	MORN repeat containing 3	3.774	9.265	Up
338799	LINC01089	long intergenic non-protein coding RNA 1089	2.255	4.869	Up
23067	SETD1B	SET domain containing 1B, histone lysine methyltransferase	1.358	6.375	Up
22877	MLXIP	MLX interacting protein	0.847	2.545	Up
65082	VPS33A	VPS33A core subunit of CORVET and HOPS complexes	0.317	1.351	Up
9026	HIP1R	huntingtin interacting protein 1 related	0.627	1.91	Up
57605	PITPNM2	phosphatidylinositol transfer protein membrane associated 2	1.241	4.003	Up
79867	TCTN2	tectonic family member 2	1.263	3.338	Up
80212	CCDC92	coiled-coil domain containing 92	0.421	2.226	Up
8408	ULK1	unc-51 like autophagy activating kinase 1	0.533	1.578	Up
1.01E+08	LINC02361	long intergenic non-protein coding RNA 2361	2.676	21.442	Up
1.05E+08	LOC105370092	uncharacterized LOC105370092	1.606	1.341	Up
1E+08	ZNF605	zinc finger protein 605	0.906	3.043	Up
7574	ZNF26	zinc finger protein 26	0.395	2.483	Up
7637	ZNF84	zinc finger protein 84	0.885	8.94	Up
7556	ZNF10	zinc finger protein 10	1.232	8.135	Up
7750	ZMYM2	zinc finger MYM-type containing 2	0.689	2.518	Up
51084	CRYL1	crystallin lambda 1	0.859	3.78	Up
253832	ZDHHC20	zinc finger DHHC-type palmitoyltransferase 20	0.363	1.468	Up
221178	SPATA13	spermatogenesis associated 13	0.551	1.98	Up
143	PARP4	poly(ADP-ribose) polymerase family member 4	0.955	8.58	Up
5042	PABPC3	poly(A) binding protein cytoplasmic 3	1.063	3.768	Up
51761	ATP8A2	ATPase phospholipid transporting 8A2	1.257	1.881	Up
219402	MTIF3	mitochondrial translational initiation factor 3	0.701	5.233	Up
222484	LNX2	ligand of numb-protein X 2	0.779	1.848	Up
255967	PAN3	poly(A) specific ribonuclease subunit PAN3	0.636	3.47	Up
283537	SLC46A3	solute carrier family 46 member 3	1.674	10.889	Up
1.03E+08	LOC102723345	uncharacterized LOC102723345	4.226	5.714	Up
5412	UBL3	ubiquitin like 3	0.833	3.791	Up
440131	LINC00544	long intergenic non-protein coding RNA 544	2.665	1.344	Up
1E+08	LINC00426	long intergenic non-protein coding RNA 426	2.531	11.585	Up
241	ALOX5AP	arachidonate 5-lipoxygenase activating protein	1.224	3.659	Up
1.01E+08	FRY-AS1	FRY antisense RNA 1	2.93	2.415	Up
10129	FRY	FRY microtubule binding protein	1.989	24.788	Up
90634	N4BP2L1	NEDD4 binding protein 2 like 1	0.556	2.041	Up

10443	N4BP2L2	NEDD4 binding protein 2 like 2	0.402	4.313	Up
116828	N4BP2L2-IT2	N4BPL2 intronic transcript 2	1.37	1.522	Up
26960	NBEA	neurobeachin	1.29	1.321	Up
55578	SUPT20H	SPT20 homolog, SAGA complex component	0.466	2.809	Up
387921	NHLRC3	NHL repeat containing 3	1.121	6.034	Up
57511	COG6	component of oligomeric golgi complex 6	0.602	2.896	Up
2308	FOXO1	forkhead box O1	0.968	2.843	Up
89890	KBTBD6	kelch repeat and BTB domain containing 6	0.884	3.748	Up
1.02E+08	LOC101929140	uncharacterized LOC101929140	1.75	2.495	Up
84078	KBTBD7	kelch repeat and BTB domain containing 7	1.129	5.603	Up
79612	NAA16	N-alpha-acetyltransferase 16, NatA auxiliary subunit	0.589	1.328	Up
28984	RGCC	regulator of cell cycle	1.329	3.636	Up
11215	AKAP11	A-kinase anchoring protein 11	0.503	1.882	Up
8848	TSC22D1	TSC22 domain family member 1	1.992	33.348	Up
641467	TSC22D1-AS1	TSC22D1 antisense RNA 1	1.918	4.968	Up
7178	TPT1	tumor protein, translationally-controlled 1	0.875	1.373	Up
83548	COG3	component of oligomeric golgi complex 3	0.429	1.479	Up
283514	SIAH3	siah E3 ubiquitin protein ligase family member 3	5.467	7.427	Up
9445	ITM2B	integral membrane protein 2B	1.596	7.082	Up
10161	LPAR6	lysophosphatidic acid receptor 6	1.533	7.481	Up
1102	RCBTB2	RCC1 and BTB domain containing protein 2	1.099	2.089	Up
83852	SETDB2	SET domain bifurcated histone lysine methyltransferase 2	0.751	5.065	Up
115761	ARL11	ADP ribosylation factor like GTPase 11	1.361	1.302	Up
10206	TRIM13	tripartite motif containing 13	0.534	3.432	Up
283518	KCNRG	potassium channel regulator	0.638	1.612	Up
1.08E+08	LOC107984567	LINE-1 retrotransposable element ORF2 protein-like	2.513	2.42	Up
79621	RNASEH2B	ribonuclease H2 subunit B	0.386	1.65	Up
1.01E+08	INTS6-AS1	INTS6 antisense RNA 1	1.52	2.008	Up
115825	WDFY2	WD repeat and FYVE domain containing 2	0.722	5.096	Up
283521	TMEM272	transmembrane protein 272	1.947	2.831	Up
1.01E+08	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5	1.241	2.526	Up
26586	CKAP2	cytoskeleton associated protein 2	1.054	8.869	Up
81550	TDRD3	tudor domain containing 3	0.501	1.669	Up
5101	PCDH9	protocadherin 9	1.785	2.484	Up
688	KLF5	KLF transcription factor 5	1.352	4.657	Up
11278	KLF12	KLF transcription factor 12	1.298	11.476	Up
1.01E+08	LINC00402	long intergenic non-protein coding RNA 402	4.359	22.72	Up
1.05E+08	LOC105370259	uncharacterized LOC105370259	4.643	20.754	Up
1.01E+08	LINC00381	long intergenic non-protein coding RNA 381	6.14	3.759	Up
9882	TBC1D4	TBC1 domain family member 4	1.131	3.242	Up
170622	COMMD6	COMM domain containing 6	1.248	2.185	Up
1203	CLN5	CLN5 intracellular trafficking protein	0.552	1.68	Up
26224	FBXL3	F-box and leucine rich repeat protein 3	0.964	4.606	Up
26050	SLITRK5	SLIT and NTRK like family member 5	4.741	3.283	Up
1638	DCT	dopachrome tautomerase	3.886	3.823	Up

1E+08	DNAJC3-DT	DNAJC3 divergent transcript	1.992	5.797	Up
10150	MBNL2	muscleblind like splicing regulator 2	0.721	2.568	Up
5911	RAP2A	RAP2A, member of RAS oncogene family	0.372	1.813	Up
23348	DOCK9	dedicator of cytokinesis 9	0.974	3.792	Up
1.01E+08	DOCK9-DT	DOCK9 divergent transcript	1.443	5.513	Up
337867	UBAC2	UBA domain containing 2	0.728	2.386	Up
2841	GPR18	G protein-coupled receptor 18	1.232	3.283	Up
1.03E+08	LINC01232	long intergenic non-protein coding RNA 1232	1.457	2.118	Up
87769	GGACT	gamma-glutamylamine cyclotransferase	0.995	3.406	Up
7174	TPP2	tripeptidyl peptidase 2	0.557	1.654	Up
196541	METTL21C	methyltransferase 21C, AARS1 lysine	0.858	1.889	Up
1.01E+08	BIVM-ERCC5	BIVM-ERCC5 readthrough	1.161	9.578	Up
2073	ERCC5	ERCC excision repair 5, endonuclease	1.19	8.935	Up
84945	ABHD13	abhydrolase domain containing 13	0.649	1.709	Up
10673	TNFSF13B	TNF superfamily member 13b	1.604	2.743	Up
23026	MYO16	myosin XVI	2.853	2.473	Up
8660	IRS2	insulin receptor substrate 2	1.844	14.13	Up
55739	NAXD	NAD(P)HX dehydratase	0.43	2.982	Up
3621	ING1	inhibitor of growth family member 1	0.959	11.346	Up
55608	ANKRD10	ankyrin repeat domain 10	0.79	2.719	Up
1E+08	MCF2L-AS1	MCF2L antisense RNA 1	1.585	3.649	Up
55208	DCUN1D2	defective in cullin neddylation 1 domain containing 2	0.993	2.325	Up
1.01E+08	SWINGN	SWI/SNF complex interacting GAS6 enhancer non-coding RNA	4.196	7.341	Up
1.05E+08	LOC105377806		3.286	7.244	Up
1.01E+08	C13orf46	chromosome 13 open reading frame 46	3.44	6.864	Up
22821	RASA3	RAS p21 protein activator 3	2.75	33.961	Up
65110	UPF3A	UPF3A regulator of nonsense mediated mRNA decay	0.428	1.564	Up
57820	CCNB1IP1	cyclin B1 interacting protein 1	0.783	1.846	Up
6039	RNASE6	ribonuclease A family member k6	2.764	8.329	Up
6035	RNASE1	ribonuclease A family member 1, pancreatic	3.182	3.06	Up
57447	NDRG2	NDRG family member 2	1.35	6.965	Up
1.02E+08	MIR6717	microRNA 6717	1.809	2.214	Up
6297	SALL2	spalt like transcription factor 2	1.753	10.131	Up
28693	TRAV1-1	T cell receptor alpha variable 1-1	0.864	2.108	Up
28685	TRAV8-1	T cell receptor alpha variable 8-1	1.122	2.88	Up
28674	TRAV12-1	T cell receptor alpha variable 12-1	1.029	2.955	Up
28683	TRAV8-3	T cell receptor alpha variable 8-3	1.169	3.814	Up
28682	TRAV8-4	T cell receptor alpha variable 8-4	0.613	1.977	Up
28681	TRAV8-5	T cell receptor alpha variable 8-5 (pseudogene)	1.043	2.43	Up
28670	TRAV13-2	T cell receptor alpha variable 13-2	0.797	1.921	Up
28672	TRAV12-3	T cell receptor alpha variable 12-3	0.59	2.115	Up
28680	TRAV8-6	T cell receptor alpha variable 8-6	0.774	1.375	Up
28665	TRAV18	T cell receptor alpha variable 18	1.262	3.951	Up
28664	TRAV19	T cell receptor alpha variable 19	0.702	2.735	Up
28663	TRAV20	T cell receptor alpha variable 20	0.643	1.899	Up

28662	TRAV21	T cell receptor alpha variable 21	1.044	3.523	Up
28697	TRAJ58	T cell receptor alpha joining 58 (non-functional)	1.151	1.385	Up
28705	TRAJ50	T cell receptor alpha joining 50	2.546	1.628	Up
28737	TRAJ18	T cell receptor alpha joining 18	0.988	1.449	Up
63874	ABHD4	abhydrolase domain containing 4, N-acyl phospholipase B	0.302	1.363	Up
9056	SLC7A7	solute carrier family 7 member 7	1.487	2.016	Up
26020	LRP10	LDL receptor related protein 10	0.227	1.427	Up
161253	REM2	RRAD and GEM like GTPase 2	1.999	1.956	Up
1.08E+08	AJUBA-DT	AJUBA divergent transcript	1.321	1.527	Up
60686	C14orf93	chromosome 14 open reading frame 93	1.156	4.511	Up
122706	PSMB11	proteasome subunit beta 11	6.554	2.784	Up
1053	CEBPE	CCAAT enhancer binding protein epsilon	2.974	3.216	Up
23428	SLC7A8	solute carrier family 7 member 8	3.171	2.589	Up
90673	PPP1R3E	protein phosphatase 1 regulatory subunit 3E	1.602	5.983	Up
51310	SLC22A17	solute carrier family 22 member 17	1.766	7.019	Up
55449	DHRS4-AS1	DHRS4 antisense RNA 1	0.806	3.449	Up
51292	GMPR2	guanosine monophosphate reductase 2	0.738	3.503	Up
115817	DHRS1	dehydrogenase/reductase 1	1.142	6.525	Up
56413	LTB4R2	leukotriene B4 receptor 2	0.864	1.308	Up
1241	LTB4R	leukotriene B4 receptor	2.013	6.325	Up
57523	NYNRIN	NYN domain and retroviral integrase containing	1.543	1.942	Up
56948	SDR39U1	short chain dehydrogenase/reductase family 39U member 1	0.389	2.084	Up
55632	G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.512	4.443	Up
394	ARHGAP5	Rho GTPase activating protein 5	0.848	7.622	Up
84837	ARHGAP5-AS1	ARHGAP5 antisense RNA 1 (head to head)	2.572	2.324	Up
1.03E+08	LOC102724945	uncharacterized LOC102724945	2.18	2.268	Up
280655	IGBP1P1	immunoglobulin (CD79A) binding protein 1 pseudogene 1	0.993	1.537	Up
122525	C14orf28	chromosome 14 open reading frame 28	1.28	6.655	Up
54813	KLHL28	kelch like family member 28	0.559	2.672	Up
23116	TOGARAM1	TOG array regulator of axonemal microtubules 1	0.969	2.943	Up
55320	MIS18BP1	MIS18 binding protein 1	0.676	1.839	Up
6235	RPS29	ribosomal protein S29	0.825	1.565	Up
122773	KLHDC1	kelch domain containing 1	1.965	6.587	Up
23588	KLHDC2	kelch domain containing 2	0.578	3.204	Up
6655	SOS2	SOS Ras/Rho guanine nucleotide exchange factor 2	0.755	1.729	Up
8814	CDKL1	cyclin dependent kinase like 1	0.474	1.487	Up
51062	ATL1	atlastin GTPase 1	1.938	5.767	Up
51199	NIN	ninein	0.932	2.47	Up
1.05E+08	LOC105370489	uncharacterized LOC105370489	0.799	1.345	Up
5836	PYGL	glycogen phosphorylase L	1.197	1.729	Up
114088	TRIM9	tripartite motif containing 9	1.669	3.131	Up
22795	NID2	nidogen 2	0.951	1.535	Up
57544	TXNDC16	thioredoxin domain containing 16	0.721	4.311	Up
6815	STYX	serine/threonine/tyrosine interacting protein	0.9	4.524	Up
652	BMP4	bone morphogenetic protein 4	4.579	2.752	Up
10668	CGRRF1	cell growth regulator with ring finger domain 1	0.596	1.717	Up
55030	FBXO34	F-box protein 34	1.198	4.269	Up

22863	ATG14	autophagy related 14	1.389	8.648	Up
57161	PELI2	pellino E3 ubiquitin protein ligase family member 2	1.296	6.121	Up
54916	TMEM260	transmembrane protein 260	1.297	8.557	Up
379025	PSMA3-AS1	PSMA3 antisense RNA 1	0.521	1.474	Up
5926	ARID4A	AT-rich interaction domain 4A	1.008	2.29	Up
9786	KIAA0586	KIAA0586	0.835	5.028	Up
23002	DAAM1	dishevelled associated activator of morphogenesis 1	0.923	3.958	Up
6252	RTN1	reticulon 1	2.681	1.871	Up
64430	PCNX4	pecanex 4	0.456	1.616	Up
51635	DHRS7	dehydrogenase/reductase 7	0.351	1.499	Up
5583	PRKCH	protein kinase C eta	0.993	5.245	Up
81537	SGPP1	sphingosine-1-phosphate phosphatase 1	0.484	2.931	Up
7597	ZBTB25	zinc finger and BTB domain containing 25	1.069	4.591	Up
22890	ZBTB1	zinc finger and BTB domain containing 1	0.418	1.923	Up
26030	PLEKHG3	pleckstrin homology and RhoGEF domain containing G3	2.312	15.534	Up
6710	SPTB	spectrin beta, erythrocytic	1.06	1.601	Up
91612	CHURC1	churchill domain containing 1	0.858	2.669	Up
161145	TMEM229B	transmembrane protein 229B	1.867	3.734	Up
23503	ZFYVE26	zinc finger FYVE-type containing 26	0.508	1.353	Up
5890	RAD51B	RAD51 paralog B	0.789	2.124	Up
87	ACTN1	actinin alpha 1	1.263	5.842	Up
8816	DCAF5	DDB1 and CUL4 associated factor 5	0.622	6.79	Up
55333	SYNJ2BP	synaptojanin 2 binding protein	0.682	3.501	Up
23508	TTC9	tetratricopeptide repeat domain 9	1.715	6.504	Up
9240	PNMA1	PNMA family member 1	0.667	3.85	Up
1.01E+08	MIDEAS-AS1	MIDEAS antisense RNA 1	2.151	2.801	Up
80127	BBOF1	basal body orientation factor 1	1.343	8.852	Up
4329	ALDH6A1	aldehyde dehydrogenase 6 family member A1	1.506	13.757	Up
10577	NPC2	NPC intracellular cholesterol transporter 2	0.622	1.685	Up
1.01E+08	MIR4709	microRNA 4709	0.658	1.434	Up
4053	LTBP2	latent transforming growth factor beta binding protein 2	1.64	5.014	Up
283571	PROX2	prospero homeobox 2	2.131	8.403	Up
91754	NEK9	NIMA related kinase 9	0.807	10.926	Up
7043	TGFB3	transforming growth factor beta 3	1.107	1.431	Up
1.01E+08	VASH1-AS1	VASH1 antisense RNA 1	1.008	5.473	Up
23357	ANGEL1	angel homolog 1	0.483	1.838	Up
1.05E+08	LOC105370579	uncharacterized LOC105370579	1.781	3.043	Up
85457	CIPC	CLOCK interacting pacemaker	0.381	2.13	Up
122945	NOXRED1	NADP dependent oxidoreductase domain containing 1	1.498	1.326	Up
63894	VIPAS39	VPS33B interacting protein, apical-basolateral polarity regulator, spe-39 homolog	0.612	2.862	Up
145508	CEP128	centrosomal protein 128	1.424	5.006	Up
1.02E+08	LINC02328	long intergenic non-protein coding RNA 2328	0.762	1.549	Up
56659	KCNK13	potassium two pore domain channel subfamily K member 13	3.729	3.56	Up
801	CALM1	calmodulin 1	0.515	1.708	Up
123036	TC2N	tandem C2 domains, nuclear	1.81	11.495	Up

10516	FBLN5	fibulin 5	2.494	4.888	Up
79890	RIN3	Ras and Rab interactor 3	1.846	10.254	Up
64112	MOAP1	modulator of apoptosis 1	1.02	7.525	Up
1.12E+08	LOC112268122		1.865	1.537	Up
56967	C14orf132	chromosome 14 open reading frame 132	3.944	19.16	Up
1.02E+08	LINC02325	long intergenic non-protein coding RNA 2325	0.809	1.759	Up
1.05E+08	LOC105370651	uncharacterized LOC105370651	2.351	1.379	Up
388011	LINC01550	long intergenic non-protein coding RNA 1550	1.062	1.98	Up
1.05E+08	LOC105370655	uncharacterized LOC105370655	4.844	3.213	Up
1.05E+08	LINC02295	long intergenic non-protein coding RNA 2295	2.278	7.401	Up
1.08E+08	LOC107987207	uncharacterized LOC107987207	3.801	3.285	Up
64919	BCL11B	BCL11 transcription factor B	1.206	6.697	Up
1.05E+08	LOC105370660	uncharacterized LOC105370660	5.449	2.71	Up
84439	HHIPL1	HHIP like 1	2.394	1.35	Up
51466	EVL	Enah/Vasp-like	0.846	5.971	Up
123099	DEGS2	delta 4-desaturase, sphingolipid 2	0.877	5.219	Up
7528	YY1	YY1 transcription factor	0.411	1.488	Up
123096	SLC25A29	solute carrier family 25 member 29	0.602	4.242	Up
1.05E+08	LINC02320	long intergenic non-protein coding RNA 2320	2.312	2.245	Up
145200	LINC00239	long intergenic non-protein coding RNA 239	1.223	2.97	Up
5527	PPP2R5C	protein phosphatase 2 regulatory subunit B'gamma	0.584	3.358	Up
1.08E+08	LOC107984659		1.333	11.821	Up
55778	ZNF839	zinc finger protein 839	0.466	1.865	Up
196872	LINC00638	long intergenic non-protein coding RNA 638	1.014	1.845	Up
1.03E+08	LINC02298	long intergenic non-protein coding RNA 2298	2.396	2.398	Up
1397	CRIP2	cysteine rich protein 2	1.363	2.284	Up
1396	CRIP1	cysteine rich protein 1	1.728	9.083	Up
9834	FAM30A	family with sequence similarity 30 member A	1.799	3.192	Up
283755	HERC2P3	HERC2 pseudogene 3	1.057	1.517	Up
654499	FAM30C	family with sequence similarity 30 member C	4.046	1.416	Up
1.03E+08	LOC102724760	immunoglobulin heavy variable 1/OR15-1 pseudogene	4.203	16.352	Up
1.08E+08	LOC107987219		4.082	3.098	Up
388077	IGHV1OR15-1	immunoglobulin heavy variable 1/OR15-1 (non-functional)	4.188	16.315	Up
1.08E+08	LOC107984785		4.082	2.985	Up
400322	HERC2P2	HERC2 pseudogene 2	1.204	1.336	Up
339005	WHAMMP3	WHAMM pseudogene 3	3.139	8.267	Up
1.04E+08	SNHG14	small nucleolar RNA host gene 14	0.787	6.684	Up
6638	SNRPN	small nuclear ribonucleoprotein polypeptide N	0.666	2.746	Up
8926	SNURF	SNRPN upstream open reading frame	0.666	2.672	Up

8123	PWAR5	Prader Willi/Angelman region RNA 5	0.839	1.851	Up
1.01E+08	PWAR6	Prader Willi/Angelman region RNA 6	1.718	4.687	Up
3653	IPW	imprinted in Prader-Willi syndrome	1.139	2.452	Up
57194	ATP10A	ATPase phospholipid transporting 10A (putative)	1.293	8.261	Up
8924	HERC2	HECT and RLD domain containing E3 ubiquitin protein ligase 2	0.681	1.652	Up
653720	GOLGA8M	golgin A8 family member M	1.513	2.249	Up
440253	WHAMMP2	WHAMM pseudogene 2	3.356	12.046	Up
321	APBA2	amyloid beta precursor protein binding family A member 2	2.308	15.205	Up
1E+08	WHAMMP4	WHAMM pseudogene 4	1.768	6.41	Up
1.03E+08	ARHGAP11B-DT	ARHGAP11B divergent transcript	2.017	4.923	Up
54893	MTMR10	myotubularin related protein 10	0.701	3.927	Up
1.05E+08	LOC105370939	uncharacterized LOC105370939	2.894	4.63	Up
1.08E+08	LOC107987222		1.845	2.678	Up
1E+08	WHAMMP1	WHAMM pseudogene 1	1.59	2.56	Up
1.01E+08	LINC02256	long intergenic non-protein coding RNA 2256	2.961	2.806	Up
1.02E+08	ARHGAP11A-DT	ARHGAP11A divergent transcript	2.007	1.771	Up
342184	FMN1	formin 1	4.794	2.055	Up
9990	SLC12A6	solute carrier family 12 member 6	0.753	2.695	Up
254531	LPCAT4	lysophosphatidylcholine acyltransferase 4	1.312	6.247	Up
7057	THBS1	thrombospondin 1	3.32	9.545	Up
1E+08	SRP14-DT	SRP14 divergent transcript	1.279	5.629	Up
5330	PLCB2	phospholipase C beta 2	0.518	1.471	Up
388115	CCDC9B	coiled-coil domain containing 9B	2.158	1.415	Up
643338	C15orf62	chromosome 15 open reading frame 62	1.964	4.12	Up
4058	LTK	leukocyte receptor tyrosine kinase	1.69	3.516	Up
8681	JMJD7-PLA2G4B	JMJD7-PLA2G4B readthrough	1.199	2.799	Up
1E+08	JMJD7	jumonji domain containing 7	0.915	5.699	Up
1E+08	PLA2G4B	phospholipase A2 group IVB	1.673	2.186	Up
23339	VPS39	VPS39 subunit of HOPS complex	0.726	4.23	Up
2595	GANC	glucosidase alpha, neutral C	0.952	7.135	Up
825	CAPN3	calpain 3	2.026	1.805	Up
146059	CDAN1	codanin 1	0.914	4.263	Up
23582	CCNDBP1	cyclin D1 binding protein 1	0.534	2.517	Up
619189	SERINC4	serine incorporator 4	0.479	1.957	Up
113201	GOLM2	golgi membrane protein 2	0.629	4.944	Up
51496	CTDSPL2	CTD small phosphatase like 2	0.379	1.892	Up
645212	EIF3J-DT	EIF3J divergent transcript	1.326	5.509	Up
80208	SPG11	SPG11 vesicle trafficking associated, spatacsin	0.511	1.512	Up
7782	SLC30A4	solute carrier family 30 member 4	1.029	2.591	Up
2200	FBN1	fibrillin 1	2.149	3.241	Up
9728	SECISBP2L	SECIS binding protein 2 like	0.899	6.025	Up
196951	FAM227B	family with sequence similarity 227 member B	0.668	2.568	Up
55056	GABPB1-IT1	GABPB1 intronic transcript	1.601	10.653	Up
1E+08	GABPB1-AS1	GABPB1 antisense RNA 1	0.564	2.21	Up

388121	TNFAIP8L3	TNF alpha induced protein 8 like 3	3.112	2.167	Up
29767	TMOD2	tropomodulin 2	0.685	2.075	Up
10681	GNB5	G protein subunit beta 5	1.075	13.024	Up
1E+08	CERNA1	competing endogenous lncRNA 1 for miR-4707-5p and miR-4767	1.869	2.648	Up
56204	ATOSA	atos homolog A	1.728	11.268	Up
1.02E+08	PIGBOS1	PIGB opposite strand 1	0.546	1.426	Up
1.01E+08	DNAAF4-CCPG1	DNAAF4-CCPG1 readthrough (NMD candidate)	1.133	4.449	Up
9236	CCPG1	cell cycle progression 1	1.125	4.546	Up
64864	RFX7	regulatory factor X7	0.796	4.673	Up
145781	GCOM1	GCOM1, MYZAP-POLR2M combined locus	0.985	5.563	Up
81488	POLR2M	RNA polymerase II subunit M	0.926	5.705	Up
102	ADAM10	ADAM metallopeptidase domain 10	0.904	4.627	Up
54629	MINDY2	MINDY lysine 48 deubiquitinase 2	0.87	4.26	Up
1.02E+08	RORA-AS1	RORA antisense RNA 1	0.851	2.499	Up
7168	TPM1	tropomyosin 1	1.315	5.464	Up
83464	APH1B	aph-1 homolog B, gamma-secretase subunit	0.743	5.299	Up
9960	USP3	ubiquitin specific peptidase 3	1.374	15.939	Up
1E+08	USP3-AS1	USP3 antisense RNA 1	1.162	7.22	Up
8925	HERC1	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1	1.003	3.583	Up
23604	DAPK2	death associated protein kinase 2	1.945	2.844	Up
1.12E+08	LOC112268147		0.987	4.354	Up
54956	PARP16	poly(ADP-ribose) polymerase family member 16	0.867	5.052	Up
54878	DPP8	dipeptidyl peptidase 8	0.32	1.847	Up
5607	MAP2K5	mitogen-activated protein kinase kinase 5	0.876	5.967	Up
8554	PIAS1	protein inhibitor of activated STAT 1	0.918	4.413	Up
91860	CALML4	calmodulin like 4	0.748	3.389	Up
26035	GLCE	glucuronic acid epimerase	0.828	2.624	Up
1.05E+08	LINC02896	long intergenic non-protein coding RNA 2896	3.1	1.662	Up
1.08E+08	LOC107984781	uncharacterized LOC107984781	2.976	5.622	Up
56965	PARP6	poly(ADP-ribose) polymerase family member 6	0.722	2.006	Up
80072	HEXA-AS1	HEXA antisense RNA 1	1.522	3.477	Up
4756	NEO1	neogenin 1	1.082	2.393	Up
440288	UBL7-DT	UBL7 divergent transcript	0.579	1.342	Up
1198	CLK3	CDC like kinase 3	0.457	2.154	Up
57184	FAM219B	family with sequence similarity 219 member B	0.577	2.552	Up
92912	UBE2Q2	ubiquitin conjugating enzyme E2 Q2	0.854	3.588	Up
23102	TBC1D2B	TBC1 domain family member 2B	0.57	1.474	Up
123688	HYKK	hydroxylysine kinase	1.991	5.333	Up
5923	RASGRF1	Ras protein specific guanine nucleotide releasing factor 1	2.143	1.577	Up
54469	ZFAND6	zinc finger AN1-type containing 6	0.588	1.879	Up
9915	ARNT2	aryl hydrocarbon receptor nuclear translocator 2	2.554	1.926	Up
3603	IL16	interleukin 16	1.959	20.138	Up
80765	STARD5	StAR related lipid transfer domain containing 5	2.546	21.058	Up
84206	MEX3B	mex-3 RNA binding family member B	1.769	2.997	Up

390660	ADAMTS7P1	ADAMTS7 pseudogene 1	1.852	1.338	Up
440295	GOLGA6L9	golgin A6 family like 9	1.115	1.485	Up
123720	WHAMM	WASP homolog associated with actin, golgi membranes and microtubules	1.418	5.056	Up
9455	HOMER2	homer scaffold protein 2	1.946	2.817	Up
123207	C15orf40	chromosome 15 open reading frame 40	0.325	1.672	Up
54993	ZSCAN2	zinc finger and SCAN domain containing 2	0.866	5.725	Up
54581	SCAND2P	SCAN domain containing 2 pseudogene	0.98	1.923	Up
11214	AKAP13	A-kinase anchoring protein 13	0.707	1.859	Up
64410	KLHL25	kelch like family member 25	1.305	2.039	Up
55070	DET1	DET1 partner of COP1 E3 ubiquitin ligase	1.123	6.05	Up
4240	MFGE8	milk fat globule EGF and factor V/VIII domain containing	3.04	15.835	Up
11057	ABHD2	abhydrolase domain containing 2, acylglycerol lipase	0.606	2.037	Up
1.12E+08	LOC112268155		0.715	2.933	Up
8800	PEX11A	peroxisomal biogenesis factor 11 alpha	0.853	1.941	Up
290	ANPEP	alanyl aminopeptidase, membrane	1.86	1.775	Up
1.01E+08	ARPIN-AP3S2	ARPIN-AP3S2 readthrough	0.466	2.502	Up
10239	AP3S2	adaptor related protein complex 3 subunit sigma 2	0.448	2.374	Up
348110	ARPIN	actin related protein 2/3 complex inhibitor	3.067	2.275	Up
10509	SEMA4B	semaphorin 4B	0.852	3.935	Up
64784	CRTC3	CREB regulated transcription coactivator 3	0.627	3.611	Up
1.02E+08	CRTC3-AS1	CRTC3 antisense RNA 1	0.767	1.572	Up
9899	SV2B	synaptic vesicle glycoprotein 2B	2.874	1.336	Up
28232	SLCO3A1	solute carrier organic anion transporter family member 3A1	0.502	1.563	Up
56963	RGMA	repulsive guidance molecule BMP co-receptor a	1.75	1.321	Up
1.04E+08	IRAIN	IGF1R antisense imprinted non-protein coding RNA	0.69	1.83	Up
3480	IGF1R	insulin like growth factor 1 receptor	1.177	12.159	Up
123355	LRRC28	leucine rich repeat containing 28	0.517	1.427	Up
4205	MEF2A	myocyte enhancer factor 2A	0.433	2.473	Up
145748	LYSMD4	LysM domain containing 4	0.635	2.455	Up
196968	DNM1P46	dynamin 1 pseudogene 46	2.265	1.768	Up
123283	TARS3	threonyl-tRNA synthetase 3	1.13	6.772	Up
8312	AXIN1	axin 1	0.528	1.448	Up
58986	PGAP6	post-GPI attachment to proteins 6	0.562	1.559	Up
1E+08	LOC100134368	uncharacterized LOC100134368	2.265	2.705	Up
1.05E+08	LOC105371036	replaced by ID 58986	1.448	1.394	Up
1.08E+08	LOC107987233	replaced by ID 283948	2.484	2.741	Up
283948	NHLRC4	NHL repeat containing 4	2.195	5.291	Up
1E+08	LOC100287175	uncharacterized LOC100287175	2.061	2.69	Up
9028	RHBDL1	rhomboid like 1	3.14	1.995	Up
146330	FBXL16	F-box and leucine rich repeat protein 16	2.513	56.256	Up
64788	LMF1	lipase maturation factor 1	0.458	1.714	Up
1.08E+08	LOC107984898		4.299	39.924	Up

7177	TPSAB1	tryptase alpha/beta 1	1.166	1.502	Up
84572	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma	0.457	1.549	Up
645811	CCDC154	coiled-coil domain containing 154	1.225	1.456	Up
9742	IFT140	intraflagellar transport 140	1.243	3.983	Up
79652	TMEM204	transmembrane protein 204	3.106	36.335	Up
90864	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3	1.272	9.7	Up
5310	PKD1	polycystin 1, transient receptor potential channel interacting	0.944	1.731	Up
1.05E+08	PKD1-AS1	PKD1 antisense RNA 1	1.148	1.566	Up
1.01E+08	SNHG19	small nucleolar RNA host gene 19	1.102	1.995	Up
21	ABCA3	ATP binding cassette subfamily A member 3	0.86	1.655	Up
51005	AMDHD2	amidohydrolase domain containing 2	0.84	3.476	Up
752014	CEMP1	cementum protein 1	2.348	7.862	Up
283876	LINC00921	long intergenic non-protein coding RNA 921	3.4	23.834	Up
91151	TIGD7	tigger transposable element derived 7	0.956	3.065	Up
7627	ZNF75A	zinc finger protein 75a	0.427	1.521	Up
1.05E+08	LOC105371059	uncharacterized LOC105371059	0.586	1.316	Up
54925	ZSCAN32	zinc finger and SCAN domain containing 32	0.555	2.743	Up
7727	ZNF174	zinc finger protein 174	0.824	8.527	Up
23059	CLUAP1	clusterin associated protein 1	0.947	6.696	Up
197358	NLRC3	NLR family CARD domain containing 3	1.806	11.207	Up
1.02E+08	LOC101929732	uncharacterized LOC101929732	1.987	5.171	Up
115	ADCY9	adenylate cyclase 9	0.784	1.54	Up
1.01E+08	LINC01569	long intergenic non-protein coding RNA 1569	0.85	1.304	Up
26048	ZNF500	zinc finger protein 500	1.321	6.126	Up
51172	NAGPA	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase	0.729	5.021	Up
1E+08	LOC100130283	uncharacterized LOC100130283	1.342	6.301	Up
23589	CARHSP1	calcium regulated heat stable protein 1	1.625	8.132	Up
80063	ATF7IP2	activating transcription factor 7 interacting protein 2	0.636	1.54	Up
4261	CIITA	class II major histocompatibility complex transactivator	1.257	1.647	Up
28955	DEXI	Dexi homolog	0.416	1.494	Up
9516	LITAF	lipopolysaccharide induced TNF factor	0.641	3.534	Up
8303	SNN	stannin	0.998	5.31	Up
92017	SNX29	sorting nexin 29	1.044	8.177	Up
23042	PDXDC1	pyridoxal dependent decarboxylase domain containing 1	0.241	1.326	Up
9665	MARF1	meiosis regulator and mRNA stability factor 1	1.411	14.093	Up
1.02E+08	MIR6506	microRNA 6506	1.523	4.805	Up
4629	MYH11	myosin heavy chain 11	0.896	3.763	Up
64131	XYLT1	xylosyltransferase 1	2.759	9.779	Up
1.03E+08	LOC102723692	uncharacterized LOC102723692	2.445	6.507	Up
1.1E+08	PKD1P4-NPIPA8	PKD1P4-NPIPA8 readthrough	1.361	1.302	Up

1.1E+08	PKD1P5-LOC105376752	PKD1P5-LOC105376752 readthrough	1.33	1.433	Up
6210	RPS15A	ribosomal protein S15a	0.917	1.53	Up
51573	GDE1	glycerophosphodiester phosphodiesterase 1	0.383	1.957	Up
6296	ACSM3	acyl-CoA synthetase medium chain family member 3	0.875	1.429	Up
57146	LDAF1	lipid droplet assembly factor 1	2.1	11.702	Up
10261	IGSF6	immunoglobulin superfamily member 6	2.373	3.385	Up
1039	CDR2	cerebellar degeneration related protein 2	0.807	4.894	Up
23062	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.573	3.572	Up
27327	TNRC6A	trinucleotide repeat containing adaptor 6A	0.738	1.393	Up
554206	LOC554206	leucine carboxyl methyltransferase 1 pseudogene	1.124	1.976	Up
79831	KDM8	lysine demethylase 8	0.908	4.471	Up
388228	SBK1	SH3 domain binding kinase 1	2.482	18.825	Up
1201	CLN3	CLN3 lysosomal/endosomal transmembrane protein, battenin	0.44	1.626	Up
55911	APOBR	apolipoprotein B receptor	1.577	3.572	Up
112869	SGF29	SAGA complex associated factor 29	0.911	3.142	Up
6817	SULT1A1	sulfotransferase family 1A member 1	0.632	1.446	Up
25970	SH2B1	SH2B adaptor protein 1	0.891	3.615	Up
388242	LOC388242	SAGA complex associated factor 29 pseudogene	2	2.417	Up
1.05E+08	LOC105371168	uncharacterized LOC105371168	2.141	1.958	Up
6693	SPN	sialophorin	1.271	4.538	Up
23475	QPRT	quinolinate phosphoribosyltransferase	1.192	2.7	Up
283897	C16orf54	chromosome 16 open reading frame 54	2.678	53.013	Up
10423	CDIPT	CDP-diacylglycerol--inositol 3-phosphatidyltransferase	0.535	1.849	Up
1.08E+08	KCTD13-DT	KCTD13 divergent transcript	2.887	2.176	Up
124446	TMEM219	transmembrane protein 219	1.048	5.285	Up
83719	YPEL3	yippee like 3	2.529	41.818	Up
79153	GDPD3	glycerophosphodiester phosphodiesterase domain containing 3	2.278	2.678	Up
6818	SULT1A3	sulfotransferase family 1A member 3	1.386	1.472	Up
613038	LOC613038	SAGA complex associated factor 29 pseudogene	1.9	2.312	Up
3683	ITGAL	integrin subunit alpha L	0.48	1.374	Up
146542	ZNF688	zinc finger protein 688	0.701	2.571	Up
1.01E+08	TMEM265	transmembrane protein 265	0.825	3.031	Up
93129	ORAI3	ORAI calcium release-activated calcium modulator 3	1.833	11.658	Up
9726	ZNF646	zinc finger protein 646	0.535	1.615	Up
84148	KAT8	lysine acetyltransferase 8	0.368	1.883	Up
29108	PYCARD	PYD and CARD domain containing	1.903	11.543	Up
1.01E+08	PYCARD-AS1	PYCARD antisense RNA 1	2.01	12.034	Up
3684	ITGAM	integrin subunit alpha M	1.412	1.603	Up
5257	PHKB	phosphorylase kinase regulatory subunit beta	0.386	1.479	Up
6477	SIAH1	siah E3 ubiquitin protein ligase 1	0.367	2.164	Up
1.12E+08	LOC112268166		0.776	6.027	Up
9683	N4BP1	NEDD4 binding protein 1	0.395	1.859	Up
113	ADCY7	adenylate cyclase 7	1.36	3.555	Up

85407	NKD1	NKD inhibitor of WNT signaling pathway 1	2.289	8.705	Up
80205	CHD9	chromodomain helicase DNA binding protein 9	0.745	1.826	Up
1.03E+08	LOC102723373	uncharacterized LOC102723373	2.946	1.626	Up
5934	RBL2	RB transcriptional corepressor like 2	2.019	16.283	Up
64400	AKTIP	AKT interacting protein	1.319	7.456	Up
79068	FTO	FTO alpha-ketoglutarate dependent dioxygenase	0.358	1.722	Up
54947	LPCAT2	lysophosphatidylcholine acyltransferase 2	1.452	2.494	Up
2775	GNAO1	G protein subunit alpha o1	2.975	6.408	Up
267	AMFR	autocrine motility factor receptor	0.734	5.441	Up
583	BBS2	Bardet-Biedl syndrome 2	1.547	7.341	Up
6559	SLC12A3	solute carrier family 12 member 3	3.309	2.191	Up
23568	ARL2BP	ADP ribosylation factor like GTPase 2 binding protein	0.999	3.363	Up
51090	PLLP	plasmolipin	3.503	3.979	Up
1.08E+08	LOC107984852	uncharacterized LOC107984852	3.03	2.54	Up
57567	ZNF319	zinc finger protein 319	1.091	6.28	Up
1.01E+08	LINC00920	long intergenic non-protein coding RNA 920	3.691	12.515	Up
7084	TK2	thymidine kinase 2	0.801	2.365	Up
113540	CMTM1	CKLF like MARVEL transmembrane domain containing 1	1.001	1.457	Up
84752	B3GNT9	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 9	0.932	3.019	Up
1.02E+08	ATP6V0D1-DT	ATP6V0D1 divergent transcript	1.448	4.367	Up
10664	CTCF	CCCTC-binding factor	0.455	2.063	Up
388284	C16orf86	chromosome 16 open reading frame 86	1.986	3.955	Up
57215	THAP11	THAP domain containing 11	0.682	2.814	Up
123904	NRN1L	neuritin 1 like	2.69	2.587	Up
5681	PSKH1	protein serine kinase H1	0.503	2.366	Up
64174	DPEP2	dipeptidase 2	4.842	102.651	Up
4775	NFATC3	nuclear factor of activated T cells 3	0.844	5.065	Up
80004	ESRP2	epithelial splicing regulatory protein 2	0.839	4.071	Up
84138	SLC7A6OS	solute carrier family 7 member 6 opposite strand	0.475	2.579	Up
55512	SMPD3	sphingomyelin phosphodiesterase 3	1.374	2.083	Up
146198	ZFP90	ZFP90 zinc finger protein	1.266	12.453	Up
1001	CDH3	cadherin 3	2.316	1.49	Up
6645	SNTB2	syntrophin beta 2	1.004	2.152	Up
283970	PDXDC2P-NPIPB14P	PDXDC2P-NPIPB14P readthrough	0.645	1.463	Up
55066	PDPR	pyruvate dehydrogenase phosphatase regulatory subunit	0.755	2.206	Up
400541	LOC400541	uncharacterized LOC400541	0.868	1.609	Up
7567	ZNF19	zinc finger protein 19	1.265	2.424	Up
342371	ATXN1L	ataxin 1 like	0.481	2.147	Up
55565	ZNF821	zinc finger protein 821	1.66	8.954	Up
342372	PKD1L3	polycystin 1 like 3, transient receptor potential channel interacting	1.671	1.84	Up
2734	GLG1	golgi glycoprotein 1	1.278	17.867	Up
162239	ZFP1	ZFP1 zinc finger protein	0.364	1.553	Up
11345	GABARAPL2	GABA type A receptor associated protein like 2	0.522	1.761	Up
23536	ADAT1	adenosine deaminase tRNA specific 1	0.882	4.582	Up

283927	NUDT7	nudix hydrolase 7	1.703	7.662	Up
23300	ATMIN	ATM interactor	0.59	3.336	Up
80790	CMIP	c-Maf inducing protein	0.758	2.186	Up
23417	MLYCD	malonyl-CoA decarboxylase	0.671	5.015	Up
83693	HSDL1	hydroxysteroid dehydrogenase like 1	0.641	1.587	Up
57707	MEAK7	MTOR associated protein, eak-7 homolog	0.802	2.861	Up
79786	KLHL36	kelch like family member 36	0.376	1.344	Up
55625	ZDHHC7	zinc finger DHHC-type palmitoyltransferase 7	0.538	2.17	Up
9764	KIAA0513	KIAA0513	1.157	6.191	Up
404550	C16orf74	chromosome 16 open reading frame 74	5.505	19.43	Up
64779	MTHFSD	methenyltetrahydrofolate synthetase domain containing	0.602	2.975	Up
81631	MAP1LC3B	microtubule associated protein 1 light chain 3 beta	0.526	3.022	Up
23174	ZCCHC14	zinc finger CCHC-type containing 14	0.861	2.963	Up
54971	BANP	BTG3 associated nuclear protein	0.855	3.644	Up
197187	SNAI3-AS1	SNAI3 antisense RNA 1	1.312	3.633	Up
333929	SNAI3	snail family transcriptional repressor 3	2.82	27.828	Up
115992	RNF166	ring finger protein 166	2.385	22.851	Up
863	CBFA2T3	CBFA2/RUNX1 partner transcriptional co-repressor 3	0.973	1.956	Up
1.02E+08	LOC101930112	uncharacterized LOC101930112	1.302	4.692	Up
606500	SNORD68	small nucleolar RNA, C/D box 68	1.237	2.987	Up
27132	CPNE7	copine 7	1.905	3.548	Up
92822	ZNF276	zinc finger protein 276	1.775	11.751	Up
2175	FANCA	FA complementation group A	0.908	4.099	Up
1.05E+08	LINC02193	long intergenic non-protein coding RNA 2193	1.546	1.302	Up
1.01E+08	RPH3AL-AS1	RPH3AL antisense RNA 1	5.618	3.181	Up
51031	GLOD4	glyoxalase domain containing 4	0.662	3.423	Up
51763	INPP5K	inositol polyphosphate-5-phosphatase K	0.891	6.766	Up
1E+08	PITPNA-AS1	PITPNA antisense RNA 1	1.113	2.575	Up
124935	SLC43A2	solute carrier family 43 member 2	0.664	1.344	Up
124997	WDR81	WD repeat domain 81	1.095	6.417	Up
5345	SERPINF2	serpin family F member 2	2.947	2.404	Up
5176	SERPINF1	serpin family F member 1	2.072	3.45	Up
114826	SMYD4	SET and MYND domain containing 4	0.797	3.949	Up
9905	SGSM2	small G protein signaling modulator 2	0.91	2.617	Up
1.02E+08	LOC101927864	uncharacterized LOC101927864	1.093	1.492	Up
4335	MNT	MAX network transcriptional repressor	0.921	3.19	Up
23108	RAP1GAP2	RAP1 GTPase activating protein 2	4.119	20.645	Up
7442	TRPV1	transient receptor potential cation channel subfamily V member 1	1.337	1.518	Up
489	ATP2A3	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 3	0.667	4.043	Up
23140	ZZEF1	zinc finger ZZ-type and EF-hand domain containing 1	0.743	1.387	Up
124936	CYB5D2	cytochrome b5 domain containing 2	0.734	3.419	Up
51479	ANKFY1	ankyrin repeat and FYVE domain containing 1	0.478	1.896	Up
201305	SPNS3	SPNS lysolipid transporter 3, sphingosine-1-phosphate (putative)	1.122	2.403	Up
409	ARRB2	arrestin beta 2	0.784	8.251	Up
58191	CXCL16	C-X-C motif chemokine ligand 16	1.358	2.92	Up

84225	ZMYND15	zinc finger MYND-type containing 15	2.324	1.815	Up
284013	VMO1	vitelline membrane outer layer 1 homolog	4.319	6.334	Up
50488	MINK1	misshapen like kinase 1	1.168	8.609	Up
728392	LOC728392	uncharacterized LOC728392	0.917	2.427	Up
22861	NLRP1	NLR family pyrin domain containing 1	2.065	6.358	Up
239	ALOX12	arachidonate 12-lipoxygenase, 12S type	1.845	14.122	Up
10462	CLEC10A	C-type lectin domain containing 10A	4.113	15.04	Up
433	ASGR2	asialoglycoprotein receptor 2	2.831	2.33	Up
11337	GABARAP	GABA type A receptor-associated protein	0.621	1.934	Up
9744	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.463	2.754	Up
8711	TNK1	tyrosine kinase non receptor 1	0.568	3.001	Up
1.01E+08	TMEM256-PLSCR3	TMEM256-PLSCR3 readthrough (NMD candidate)	0.483	2.934	Up
57048	PLSCR3	phospholipid scramblase 3	0.53	3.691	Up
1140	CHRNB1	cholinergic receptor nicotinic beta 1 subunit	0.731	1.926	Up
57659	ZBTB4	zinc finger and BTB domain containing 4	0.997	7.601	Up
112483	SAT2	spermidine/spermine N1-acetyltransferase family member 2	0.396	1.5	Up
284023	RNF227	ring finger protein 227	0.596	1.675	Up
59344	ALOXE3	arachidonate lipoxygenase 3	4.795	3.692	Up
6844	VAMP2	vesicle associated membrane protein 2	0.8	3.862	Up
84314	TMEM107	transmembrane protein 107	2.701	26.234	Up
727676	SNORD118	small nucleolar RNA, C/D box 118	2.841	2.546	Up
54785	BORCS6	BLOC-1 related complex subunit 6	0.962	6.625	Up
284029	LINC00324	long intergenic non-protein coding RNA 324	2.817	17.671	Up
1E+08	TRW-CCA1-1	tRNA-Trp (anticodon CCA) 1-1	2.317	4.4	Up
1E+08	TRD-GTC2-11	tRNA-Asp (anticodon GTC) 2-11	2.905	4.871	Up
80169	CTC1	CST telomere replication complex component 1	1.194	10.31	Up
1E+08	TRS-AGA2-6	tRNA-Ser (anticodon AGA) 2-6	1.193	1.328	Up
1E+08	TRI-AAT4-1	tRNA-Ile (anticodon AAT) 4-1	1.495	2.85	Up
124751	KRBA2	KRAB-A domain containing 2	1.268	2.514	Up
1.08E+08	LOC107985063		1.584	3.565	Up
23533	PIK3R5	phosphoinositide-3-kinase regulatory subunit 5	1.431	12.738	Up
8522	GAS7	growth arrest specific 7	2.723	9.281	Up
56985	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent	1.739	11.343	Up
388335	TMEM220	transmembrane protein 220	1.813	10.732	Up
1.01E+08	MAGOH2P	mago homolog 2, pseudogene	2.274	3.976	Up
7566	ZNF18	zinc finger protein 18	0.898	5.357	Up
1.01E+08	COX10-DT	COX10 divergent transcript	1.034	2.784	Up
9953	HS3ST3B1	heparan sulfate-glucosamine 3-sulfotransferase 3B1	0.886	3.038	Up
125150	ZSWIM7	zinc finger SWIM-type containing 7	0.74	5.624	Up
57336	ZNF287	zinc finger protein 287	0.85	6.912	Up
57547	ZNF624	zinc finger protein 624	1.351	11.693	Up
23164	MPRIP	myosin phosphatase Rho interacting protein	0.637	1.592	Up
201163	FLCN	folliculin	0.611	2.664	Up
146691	TOM1L2	target of myb1 like 2 membrane trafficking protein	1.408	14.053	Up
125170	MIEF2	mitochondrial elongation factor 2	1.419	7.834	Up
140775	SMCR8	SMCR8-C9orf72 complex subunit	0.658	2.875	Up

2310	FOXO3B	forkhead box O3B	0.556	1.777	Up
125206	SLC5A10	solute carrier family 5 member 10	2.164	6.813	Up
10750	GRAP	GRB2 related adaptor protein	2.715	9.686	Up
400581	GRAPL	GRB2 related adaptor protein like	2.72	12.351	Up
388436	LOC388436	uncharacterized protein ENSP00000382042	2.872	2.83	Up
256302	NATD1	N-acetyltransferase domain containing 1	2.623	26.194	Up
201229	LYRM9	LYR motif containing 9	1.603	14.482	Up
2319	FLOT2	flotillin 2	0.848	11.702	Up
147015	DHRS13	dehydrogenase/reductase 13	0.363	1.439	Up
57649	PHF12	PHD finger protein 12	0.944	3.388	Up
399687	MYO18A	myosin XVIIIA	0.754	1.349	Up
9220	TIAF1	replaced by ID 399687	0.804	1.999	Up
116236	ABHD15	abhydrolase domain containing 15	0.795	6.145	Up
85464	SSH2	slingshot protein phosphatase 2	0.805	3.284	Up
374786	EFCAB5	EF-hand calcium binding domain 5	1.559	2.788	Up
440423	SUZ12P1	SUZ12 pseudogene 1	0.5	2.171	Up
51379	CRLF3	cytokine receptor like factor 3	1.127	4.877	Up
4763	NF1	neurofibromin 1	1.286	4.272	Up
2124	EVI2B	ecotropic viral integration site 2B	1.531	5.389	Up
2123	EVI2A	ecotropic viral integration site 2A	1.037	1.777	Up
1.01E+08	MIR4724	microRNA 4724	1.387	1.596	Up
114659	LRRC37B	leucine rich repeat containing 37B	1.925	4.808	Up
8851	CDK5R1	cyclin dependent kinase 5 regulatory subunit 1	2.356	5.418	Up
117584	RFFL	ring finger and FYVE like domain containing E3 ubiquitin protein ligase	0.684	3.588	Up
1.01E+08	RAD51L3-RFFL	RAD51L3-RFFL readthrough	0.646	2.902	Up
146862	UNC45B	unc-45 myosin chaperone B	5.299	3.035	Up
1.05E+08	LOC105371932	uncharacterized LOC105371932	1.504	4.149	Up
162394	SLFN5	schlafen family member 5	1.513	2.368	Up
342618	SLFN14	schlafen family member 14	2.646	1.508	Up
79148	MMP28	matrix metallopeptidase 28	5.342	12.369	Up
414059	TBC1D3B	TBC1 domain family member 3B	1.292	1.432	Up
1.03E+08	TBC1D3I	TBC1 domain family member 3I	1.619	2.372	Up
1.01E+08	TBC1D3G	TBC1 domain family member 3G	1.712	1.822	Up
729877	TBC1D3H	TBC1 domain family member 3H	1.869	2.771	Up
84218	TBC1D3F	TBC1 domain family member 3F	1.361	1.918	Up
11276	SYNRG	synergin gamma	0.74	4.514	Up
1.01E+08	TBC1D3K	TBC1 domain family member 3K	1.545	2.281	Up
1.01E+08	TBC1D3L	TBC1 domain family member 3L	1.648	1.51	Up
1.01E+08	TBC1D3D	TBC1 domain family member 3D	1.474	2.339	Up
414060	TBC1D3C	TBC1 domain family member 3C	1.638	2.033	Up
729873	TBC1D3	TBC1 domain family member 3	1.772	2.213	Up
8396	PIP4K2B	phosphatidylinositol-5-phosphate 4-kinase type 2 beta	0.865	8.404	Up
1.01E+08	LINC00672	long intergenic non-protein coding RNA 672	2.888	1.979	Up

57125	PLXDC1	plexin domain containing 1	1.566	2.908	Up
84961	FBXL20	F-box and leucine rich repeat protein 20	1.294	4.599	Up
8557	TCAP	titin-cap	1.332	1.561	Up
93210	PGAP3	post-GPI attachment to proteins phospholipase 3	1.038	4.407	Up
2064	ERBB2	erb-b2 receptor tyrosine kinase 2	1.118	3.726	Up
7067	THRA	thyroid hormone receptor alpha	2.256	32.762	Up
9572	NR1D1	nuclear receptor subfamily 1 group D member 1	1.335	8.756	Up
339287	MSL1	MSL complex subunit 1	0.473	2.376	Up
1236	CCR7	C-C motif chemokine receptor 7	0.559	2.049	Up
3728	JUP	junction plakoglobin	1.354	2.18	Up
6777	STAT5B	signal transducer and activator of transcription 5B	0.474	1.899	Up
1.09E+08	HSD17B1-AS1	HSD17B1 antisense RNA 1	0.298	1.312	Up
162427	RETREG3	reticulophagy regulator family member 3	1.05	12.683	Up
2145	EZH1	enhancer of zeste 1 polycomb repressive complex 2 subunit	1.454	14.002	Up
10493	VAT1	vesicle amine transport 1	1.16	9.348	Up
10230	NBR2	neighbor of BRCA1 lncRNA 2	0.823	2.88	Up
4077	NBR1	NBR1 autophagy cargo receptor	0.785	7.685	Up
1E+08	LINC00910	long intergenic non-protein coding RNA 910	2.29	7.776	Up
84336	TMEM101	transmembrane protein 101	0.68	2.065	Up
10014	HDAC5	histone deacetylase 5	0.876	4.553	Up
92591	ASB16	ankyrin repeat and SOCS box containing 16	1.557	3.53	Up
339201	ASB16-AS1	ASB16 antisense RNA 1	1.523	10.793	Up
7343	UBTF	upstream binding transcription factor	0.785	3.429	Up
2896	GRN	granulin precursor	0.487	1.572	Up
2535	FZD2	frizzled class receptor 2	3.842	6.504	Up
79877	DCAKD	dephospho-CoA kinase domain containing	0.599	4.672	Up
79777	ACBD4	acyl-CoA binding domain containing 4	1.194	5.53	Up
124783	SPATA32	spermatogenesis associated 32	2.076	2.288	Up
9842	PLEKHM1	pleckstrin homology and RUN domain containing M1	0.471	2.579	Up
55073	LRRC37A4P	leucine rich repeat containing 37 member A4, pseudogene	1.988	3.52	Up
284058	KANSL1	KAT8 regulatory NSL complex subunit 1	0.977	5.347	Up
644246	KANSL1-AS1	KANSL1 antisense RNA 1	2.082	4.148	Up
1.02E+08	LOC101927060	uncharacterized LOC101927060	0.736	2.357	Up
114881	OSBPL7	oxysterol binding protein like 7	1.601	4.801	Up
90507	SCRN2	secernin 2	0.823	4.205	Up
22834	ZNF652	zinc finger protein 652	1.467	14.408	Up
81558	FAM117A	family with sequence similarity 117 member A	1.417	35.115	Up
11143	KAT7	lysine acetyltransferase 7	0.419	2.315	Up
5164	PDK2	pyruvate dehydrogenase kinase 2	1.101	9.7	Up
201191	SAMD14	sterile alpha motif domain containing 14	0.792	3.425	Up
80221	ACSF2	acyl-CoA synthetase family member 2	1.339	8.561	Up
55316	RSAD1	radical S-adenosyl methionine domain containing 1	0.495	2.856	Up
8714	ABCC3	ATP binding cassette subfamily C member 3	3.057	3.135	Up
10140	TOB1	transducer of ERBB2, 1	1.677	14.559	Up
400604	TOB1-AS1	TOB1 antisense RNA 1	2.874	6.869	Up
54799	MBTD1	mbt domain containing 1	1.459	14.002	Up
9241	NOG	noggin	5.522	18.53	Up
124540	MSI2	musashi RNA binding protein 2	0.545	2.383	Up

7716	VEZF1	vascular endothelial zinc finger 1	0.535	4.012	Up
55545	MSX2P1	msh homeobox 2 pseudogene 1	2.492	11.536	Up
8288	EPX	eosinophil peroxidase	3.589	1.357	Up
4353	MPO	myeloperoxidase	5.267	5.206	Up
5414	SEPTIN4	septin 4	1.522	2.118	Up
284161	GDPD1	glycerophosphodiester phosphodiesterase domain containing 1	1.288	2.341	Up
388403	YPEL2	yippee like 2	2.715	9.195	Up
79665	DHX40	DEAH-box helicase 40	0.509	1.708	Up
1.05E+08	HEATR6-DT	HEATR6 divergent transcript	5.699	4.4	Up
645638	WFDC21P	WAP four-disulfide core domain 21, pseudogene	7.057	6.86	Up
54828	BCAS3	BCAS3 microtubule associated cell migration factor	1.546	9.828	Up
26115	TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	1.302	3.888	Up
1534	CYB561	cytochrome b561	0.434	1.706	Up
1636	ACE	angiotensin I converting enzyme	2.829	11.686	Up
4215	MAP3K3	mitogen-activated protein kinase kinase kinase 3	1.104	31.573	Up
1.02E+08	LOC101927898	uncharacterized LOC101927898	1.191	1.651	Up
80774	LIMD2	LIM domain containing 2	0.831	4.861	Up
729683	LOC729683	uncharacterized LOC729683	1.18	3.925	Up
92335	STRADA	STE20 related adaptor alpha	0.467	2.561	Up
92340	PRR29	proline rich 29	0.7	1.38	Up
3384	ICAM2	intercellular adhesion molecule 2	0.677	1.342	Up
2081	ERN1	endoplasmic reticulum to nucleus signaling 1	1.588	4.879	Up
11232	POLG2	DNA polymerase gamma 2, accessory subunit	0.681	3.431	Up
90799	CEP95	centrosomal protein 95	0.527	1.932	Up
64750	SMURF2	SMAD specific E3 ubiquitin protein ligase 2	1.237	4.812	Up
8313	AXIN2	axin 2	2.011	65.781	Up
5578	PRKCA	protein kinase C alpha	0.825	2.884	Up
26207	PITPNC1	phosphatidylinositol transfer protein cytoplasmic 1	1.577	11.295	Up
1.02E+08	LOC101928045	uncharacterized LOC101928045	1.368	6.366	Up
1.05E+08	LOC105371870	uncharacterized LOC105371870	2.331	10.272	Up
440461	ARHGAP27P2	Rho GTPase activating protein 27 pseudogene 2	2.042	6.188	Up
5608	MAP2K6	mitogen-activated protein kinase kinase 6	3.827	27.297	Up
201266	SLC39A11	solute carrier family 39 member 11	0.57	1.828	Up
9382	COG1	component of oligomeric golgi complex 1	0.54	2.989	Up
23580	CDC42EP4	CDC42 effector protein 4	1.142	1.929	Up
54549	SDK2	sidekick cell adhesion molecule 2	2.025	3.778	Up
85001	MGC16275	uncharacterized protein MGC16275	1.492	2.912	Up
94015	TTYH2	tweety family member 2	2.181	6.167	Up
64446	DNAI2	dynein axonemal intermediate chain 2	2.76	1.488	Up
124602	KIF19	kinesin family member 19	4.965	3.252	Up
11314	CD300A	CD300a molecule	1.316	5.159	Up
124599	CD300LB	CD300 molecule like family member b	2.91	1.941	Up
10871	CD300C	CD300c molecule	2.01	1.668	Up
326624	RAB37	RAB37, member RAS oncogene family	2.953	18.293	Up
1.05E+08	SLC9A3R1-AS1	SLC9A3R1 antisense RNA 1	1.029	4.514	Up

1.01E+08	MIR3615	microRNA 3615	0.863	2.609	Up
9368	NHERF1	NHERF family PDZ scaffold protein 1	0.918	4.771	Up
23510	KCTD2	potassium channel tetramerization domain containing 2	0.496	3.402	Up
9121	SLC16A5	solute carrier family 16 member 5	2.9	8.657	Up
79637	ARMC7	armadillo repeat containing 7	0.68	4.214	Up
9772	TMEM94	transmembrane protein 94	0.601	1.795	Up
80022	MYO15B	myosin XVB	1.41	3.064	Up
9400	RECQL5	RecQ like helicase 5	1.033	3.851	Up
201292	TRIM65	tripartite motif containing 65	0.517	3.897	Up
85302	FBF1	Fas binding factor 1	1.447	3.338	Up
1.01E+08	RNF157-AS1	RNF157 antisense RNA 1	1.735	23.488	Up
114804	RNF157	ring finger protein 157	0.682	1.773	Up
10610	ST6GALNAC2	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	3.246	6.866	Up
55808	ST6GALNAC1	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	2.426	12.411	Up
439921	MXRA7	matrix remodeling associated 7	0.676	1.505	Up
124512	METTL23	methyltransferase like 23	0.683	2.071	Up
146664	MGAT5B	alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase B	2.429	3.923	Up
1.05E+08	LOC105371899	uncharacterized LOC105371899	6.313	3.422	Up
10801	SEPTIN9	septin 9	1.392	39.19	Up
1.12E+08	LOC112268199	uncharacterized LOC112268199	3.428	23.431	Up
57690	TNRC6C	trinucleotide repeat containing adaptor 6C	1	2.426	Up
1E+08	TNRC6C-AS1	replaced by ID 11322	2.855	25.732	Up
11322	TMC6	transmembrane channel like 6	1.191	5.881	Up
147138	TMC8	transmembrane channel like 8	1.738	16.365	Up
7077	TIMP2	TIMP metallopeptidase inhibitor 2	1.784	3.26	Up
57332	CBX8	chromobox 8	0.812	1.66	Up
8535	CBX4	chromobox 4	0.982	4.893	Up
79092	CARD14	caspase recruitment domain family member 14	1.795	1.866	Up
6448	SGSH	N-sulfoglucosamine sulfohydrolase	0.758	1.379	Up
1E+08	LOC100129503		1.247	2.135	Up
440465	BAIAP2-DT	BAIAP2 divergent transcript	1.982	13.791	Up
57597	BAHCC1	BAH domain and coiled-coil containing 1	2.961	1.83	Up
51547	SIRT7	sirtuin 7	0.469	1.366	Up
284001	CCDC57	coiled-coil domain containing 57	1.022	3.222	Up
64122	FN3K	fructosamine 3 kinase	1.373	5.591	Up
81035	COLEC12	collectin subfamily member 12	3.969	4.063	Up
645158	CBX3P2	CBX3 pseudogene 2	1.446	2.814	Up
23347	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	1.232	3.492	Up
8736	MYOM1	myomesin 1	2.16	2.654	Up
7050	TGIF1	TGFB induced factor homeobox 1	1.706	6.402	Up
649446	DLGAP1-AS1	DLGAP1 antisense RNA 1	1.085	4.241	Up
84777	DLGAP1-AS2	DLGAP1 antisense RNA 2	2.036	2.268	Up
7541	ZBTB14	zinc finger and BTB domain containing 14	1.28	18.127	Up
1.08E+08	LOC107985144	uncharacterized LOC107985144	2.587	2.095	Up
23136	EPB41L3	erythrocyte membrane protein band 4.1 like 3	1.654	1.52	Up

1.02E+08	NDUFV2-AS1	NDUFV2 antisense RNA 1	1.336	4.386	Up
11031	RAB31	RAB31, member RAS oncogene family	1.248	1.64	Up
2774	GNAL	G protein subunit alpha L	1.127	5.74	Up
57132	CHMP1B	charged multivesicular body protein 1B	0.752	6.818	Up
65258	MPPE1	metallophosphoesterase 1	0.982	7.675	Up
55125	CEP192	centrosomal protein 192	0.916	2.676	Up
753	LDLRAD4	low density lipoprotein receptor class A domain containing 4	1.504	13.232	Up
162655	ZNF519	zinc finger protein 519	0.764	2.28	Up
1.05E+08	LOC105372019	uncharacterized LOC105372019	4.332	4.221	Up
125488	TTC39C	tetratricopeptide repeat domain 39C	0.775	2.766	Up
1.03E+08	TTC39C-AS1	TTC39C antisense RNA 1	2.891	7.786	Up
1.12E+08	LOC112268213		0.864	2.1	Up
59340	HRH4	histamine receptor H4	1.334	1.859	Up
25925	ZNF521	zinc finger protein 521	3.093	5.773	Up
1824	DSC2	desmocollin 2	3.944	3.513	Up
1.02E+08	DSCAS	DSC1/DSC2 antisense RNA	6.209	4.158	Up
1823	DSC1	desmocollin 1	7.059	21.298	Up
1829	DSG2	desmoglein 2	2.623	4.106	Up
1837	DTNA	dystrobrevin alpha	2.727	1.813	Up
10982	MAPRE2	microtubule associated protein RP/EB family member 2	0.875	2.526	Up
252884	ZNF396	zinc finger protein 396	2.627	6.951	Up
55250	ELP2	elongator acetyltransferase complex subunit 2	0.427	1.365	Up
80206	FHOD3	formin homology 2 domain containing 3	1.078	1.348	Up
5289	PIK3C3	phosphatidylinositol 3-kinase catalytic subunit type 3	0.561	2.358	Up
1.05E+08	LOC105372092	uncharacterized LOC105372092	4.953	2.816	Up
6563	SLC14A1	solute carrier family 14 member 1 (Kidd blood group)	7.263	5.945	Up
4092	SMAD7	SMAD family member 7	1.779	5.803	Up
26790	SNORD58B	small nucleolar RNA, C/D box 58B	1.488	3.548	Up
9388	LIPG	lipase G, endothelial type	3.75	2.226	Up
4089	SMAD4	SMAD family member 4	0.635	5.597	Up
11201	POLI	DNA polymerase iota	1.517	2.692	Up
6925	TCF4	transcription factor 4	1.432	5.168	Up
1.01E+08	LINC01539	long intergenic non-protein coding RNA 1539	2.927	1.552	Up
115701	ALPK2	alpha kinase 2	0.872	1.343	Up
57614	RELCH	RAB11 binding and LisH domain, coiled-coil and HEAT repeat containing	1.031	4.929	Up
9525	VPS4B	vacuolar protein sorting 4 homolog B	0.509	3.532	Up
92126	DSEL	dermatan sulfate epimerase like	1.437	1.387	Up
79839	CCDC102B	coiled-coil domain containing 102B	1.16	1.522	Up
220158	GTSCR1	Gilles de la Tourette syndrome chromosome region, candidate 1	4.625	7.649	Up
1.05E+08	LOC105372185	uncharacterized LOC105372185	4.808	2.179	Up
201456	FBXO15	F-box protein 15	1.775	3.647	Up
400657	ZNF407-AS1	ZNF407 antisense RNA 1	0.843	3.495	Up

284273	PTGR3	prostaglandin reductase 3	2.074	11.904	Up
10194	TSHZ1	teashirt zinc finger homeobox 1	1.701	13.671	Up
9658	ZNF516	zinc finger protein 516	1.021	2.798	Up
7776	ZNF236	zinc finger protein 236	0.65	1.344	Up
4155	MBP	myelin basic protein	1.522	15.08	Up
374868	ATP9B	ATPase phospholipid transporting 9B (putative)	0.605	3.49	Up
610	HCN2	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2	1.133	2.869	Up
400668	PRSS57	serine protease 57	1.485	2.057	Up
5064	PALM	paralemmin	1.911	1.941	Up
1991	ELANE	elastase, neutrophil expressed	3.015	1.32	Up
91300	R3HDM4	R3H domain containing 4	0.402	1.419	Up
1265	CNN2	calponin 2	1.201	4.297	Up
10347	ABCA7	ATP binding cassette subfamily A member 7	2.392	10.118	Up
23526	ARHGAP45	Rho GTPase activating protein 45	1.227	9.217	Up
10297	APC2	APC regulator of WNT signaling pathway 2	1.461	3.84	Up
81926	ABHD17A	abhydrolase domain containing 17A, depalmitoylase	0.393	1.424	Up
1455	CSNK1G2	casein kinase 1 gamma 2	0.598	2.787	Up
55643	BTBD2	BTB domain containing 2	1.132	22.395	Up
645191	LINGO3	leucine rich repeat and Ig domain containing 3	3.305	10.278	Up
56928	SPPL2B	signal peptide peptidase like 2B	0.759	3.786	Up
2788	GNG7	G protein subunit gamma 7	1.587	5.644	Up
148252	DIRAS1	DIRAS family GTPase 1	2.069	2.361	Up
115196	ZNF554	zinc finger protein 554	1.796	9.48	Up
148254	ZNF555	zinc finger protein 555	0.645	2.024	Up
7089	TLE2	TLE family member 2, transcriptional corepressor	0.668	1.66	Up
166	TLE5	TLE family member 5, transcriptional modulator	1.182	9.391	Up
8698	S1PR4	sphingosine-1-phosphate receptor 4	2.095	30.122	Up
51343	FZR1	fizzy and cell division cycle 20 related 1	0.437	1.62	Up
1E+08	TEKTIP1	tektin bundle interacting protein 1	1.647	1.418	Up
6915	TBXA2R	thromboxane A2 receptor	3.062	14.591	Up
23396	PIP5K1C	phosphatidylinositol-4-phosphate 5-kinase type 1 gamma	0.693	2.105	Up
27134	TJP3	tight junction protein 3	1.733	11.448	Up
51341	ZBTB7A	zinc finger and BTB domain containing 7A	0.701	1.802	Up
170961	ANKRD24	ankyrin repeat domain 24	2.301	3.227	Up
126259	TMIGD2	transmembrane and immunoglobulin domain containing 2	1.409	3.813	Up
10501	SEMA6B	semaphorin 6B	1.989	2.801	Up
126282	TNFAIP8L1	TNF alpha induced protein 8 like 1	0.827	3.764	Up
374875	HSD11B1L	hydroxysteroid 11-beta dehydrogenase 1 like	0.813	1.758	Up
400673	VMAC	vimentin type intermediate filament associated coiled-coil protein	1.008	3.622	Up
828	CAPS	calcyphosine	1.86	7.987	Up
125981	ACER1	alkaline ceramidase 1	2.433	1.758	Up
84266	ALKBH7	alkB homolog 7	0.791	1.633	Up
79958	DENND1C	DENN domain containing 1C	0.649	4.074	Up
2015	ADGRE1	adhesion G protein-coupled receptor E1	1.221	3.061	Up
1.05E+08	LOC105372256	uncharacterized LOC105372256	2.583	2.219	Up
326342	ADGRE4P	adhesion G protein-coupled receptor E4, pseudogene	2.675	2.626	Up
23370	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18	2.084	9.126	Up

1.08E+08	LOC107985284	uncharacterized LOC107985284	3.317	6.143	Up
126006	PCP2	Purkinje cell protein 2	1.703	2.51	Up
256949	KANK3	KN motif and ankyrin repeat domains 3	0.67	1.532	Up
9230	RAB11B	RAB11B, member RAS oncogene family	0.348	1.952	Up
51257	MARCHF2	membrane associated ring-CH-type finger 2	0.553	2.607	Up
84106	PRAM1	PML-RARA regulated adaptor molecule 1	2.502	2.788	Up
84330	ZNF414	zinc finger protein 414	0.739	2.774	Up
4542	MYO1F	myosin IF	2.204	10.578	Up
81794	ADAMTS10	ADAM metallopeptidase with thrombospondin type 1 motif 10	2.556	4.163	Up
374879	ZNF699	zinc finger protein 699	1.093	10.098	Up
84527	ZNF559	zinc finger protein 559	1.066	7.676	Up
1.01E+08	ZNF559-ZNF177	ZNF559-ZNF177 readthrough	0.835	2.077	Up
10781	ZNF266	zinc finger protein 266	0.779	5.991	Up
93134	ZNF561	zinc finger protein 561	0.756	4.682	Up
162993	ZNF846	zinc finger protein 846	1.631	3.949	Up
93145	OLFM2	olfactomedin 2	3.723	15.26	Up
3386	ICAM4	intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)	1.759	1.584	Up
3385	ICAM3	intercellular adhesion molecule 3	0.649	2.481	Up
53637	S1PR5	sphingosine-1-phosphate receptor 5	3.229	4.405	Up
1032	CDKN2D	cyclin dependent kinase inhibitor 2D	1.124	5.045	Up
57153	SLC44A2	solute carrier family 44 member 2	0.803	2.615	Up
147727	ILF3-DT	ILF3 divergent transcript	0.762	3.122	Up
90580	TIMM29	translocase of inner mitochondrial membrane 29	0.429	2.004	Up
2057	EPOR	erythropoietin receptor	0.528	2.124	Up
115948	ODAD3	outer dynein arm docking complex subunit 3	0.695	3.779	Up
5589	PRKCSH	protein kinase C substrate 80K-H	0.598	3.538	Up
199692	ZNF627	zinc finger protein 627	0.72	2.746	Up
55552	ZNF823	zinc finger protein 823	1.211	3.619	Up
126068	ZNF441	zinc finger protein 441	0.939	2.273	Up
126069	ZNF491	zinc finger protein 491	2.115	6.118	Up
126070	ZNF440	zinc finger protein 440	0.754	3.131	Up
90594	ZNF439	zinc finger protein 439	1.564	8.609	Up
7620	ZNF69	zinc finger protein 69	2.051	7.421	Up
90592	ZNF700	zinc finger protein 700	0.745	2.88	Up
284390	ZNF763	zinc finger protein 763	2.455	10.553	Up
1.02E+08	ZNF433-AS1	ZNF433 and ZNF878 antisense RNA 1	1.132	2.78	Up
1.01E+08	ZNF625-ZNF20	ZNF625-ZNF20 readthrough (NMD candidate)	1.104	3.457	Up
7568	ZNF20	zinc finger protein 20	1.096	3.456	Up
51710	ZNF44	zinc finger protein 44	1.703	11.776	Up
147837	ZNF563	zinc finger protein 563	1.696	9.344	Up
90576	ZNF799	zinc finger protein 799	1.097	4.294	Up
10224	ZNF443	zinc finger protein 443	1.209	4.475	Up
163051	ZNF709	zinc finger protein 709	1.14	8.2	Up
163050	ZNF564	zinc finger protein 564	0.98	5.571	Up
1777	DNASE2	deoxyribonuclease 2, lysosomal	0.35	1.38	Up
4066	LYL1	LYL1 basic helix-loop-helix family member	1.184	6.274	Up

5989	RFX1	regulatory factor X1	0.666	3.07	Up
1.01E+08	ADGRL1-AS1	ADGRL1 antisense RNA 1	0.732	1.971	Up
3337	DNAJB1	DnaJ heat shock protein family (Hsp40) member B1	0.445	1.441	Up
9524	TECR	trans-2,3-enoyl-CoA reductase	0.95	6.195	Up
693224	MIR639	microRNA 639	0.831	1.995	Up
1.07E+08	SNORA104	small nucleolar RNA, H/ACA box 104	0.999	1.865	Up
84449	ZNF333	zinc finger protein 333	0.935	3.224	Up
26993	AKAP8L	A-kinase anchoring protein 8 like	0.849	4.987	Up
8907	AP1M1	adaptor related protein complex 1 subunit mu 1	0.347	1.888	Up
10365	KLF2	KLF transcription factor 2	4.389	93.283	Up
27151	CPAMD8	C3 and PZP like alpha-2-macroglobulin domain containing 8	3.72	4.76	Up
57719	ANO8	anoctamin 8	0.96	2.171	Up
376497	SLC27A1	solute carrier family 27 member 1	1.23	6.023	Up
27106	ARRDC2	arrestin domain containing 2	2.413	21.881	Up
23031	MAST3	microtubule associated serine/threonine kinase 3	0.83	2.303	Up
5864	RAB3A	RAB3A, member RAS oncogene family	0.797	1.895	Up
80726	IQCN	IQ motif containing N	1.754	1.973	Up
1.05E+08	LOC105372300	uncharacterized LOC105372300	1.828	4.33	Up
54858	PGPEP1	pyroglutamyl-peptidase I	1.051	2.552	Up
126364	LRRC25	leucine rich repeat containing 25	4.761	3.06	Up
23373	CRTC1	CREB regulated transcription coactivator 1	1.548	6.589	Up
284439	SLC25A42	solute carrier family 25 member 42	1.179	10.665	Up
23383	MAU2	MAU2 sister chromatid cohesion factor	0.659	3.33	Up
83983	TSSK6	testis specific serine kinase 6	1.745	2.05	Up
9170	LPAR2	lysophosphatidic acid receptor 2	0.475	2.816	Up
7561	ZNF14	zinc finger protein 14	1.3	6.873	Up
284440	LINC00663	long intergenic non-protein coding RNA 663	2.644	5.03	Up
1.12E+08	LOC112267872		1.212	4.047	Up
440515	ZNF506	zinc finger protein 506	0.306	1.401	Up
56242	ZNF253	zinc finger protein 253	0.825	3.694	Up
81931	ZNF93	zinc finger protein 93	1.004	2.612	Up
1E+08	ZNF737	zinc finger protein 737	0.972	5.37	Up
80264	ZNF430	zinc finger protein 430	0.736	5.53	Up
170959	ZNF431	zinc finger protein 431	0.758	2.454	Up
7562	ZNF708	zinc finger protein 708	0.78	1.727	Up
284443	ZNF493	zinc finger protein 493	0.908	6.143	Up
353088	ZNF429	zinc finger protein 429	1.39	5.902	Up
1.02E+08	LOC101929007	uncharacterized LOC101929007	1.748	2.194	Up
1E+08	IPO5P1	importin 5 pseudogene 1	0.633	1.382	Up
7644	ZNF91	zinc finger protein 91	0.624	2.341	Up
171392	ZNF675	zinc finger protein 675	0.665	2.639	Up
148213	ZNF681	zinc finger protein 681	1.255	4.308	Up
9534	ZNF254	zinc finger protein 254	0.525	1.787	Up
148189	LINC00662	long intergenic non-protein coding RNA 662	0.706	1.786	Up
79156	PLEKHF1	pleckstrin homology and FYVE domain containing 1	0.965	4.419	Up
91646	TDRD12	tudor domain containing 12	2.571	1.506	Up

126248	WDR88	WD repeat domain 88	1.496	1.505	Up
1050	CEBPA	CCAAT enhancer binding protein alpha	1.062	1.62	Up
26065	LSM14A	LSM14A mRNA processing body assembly factor	0.376	2.077	Up
9710	GARRE1	granule associated Rac and RHOG effector 1	1.277	13.654	Up
55900	ZNF302	zinc finger protein 302	0.702	2.543	Up
339318	ZNF181	zinc finger protein 181	0.77	4.506	Up
148103	ZNF599	zinc finger protein 599	1.248	3.136	Up
400685	LINC01801	long intergenic non-protein coding RNA 1801	3.742	22.803	Up
90075	ZNF30	zinc finger protein 30	0.865	2.708	Up
126375	ZNF792	zinc finger protein 792	2.505	22.044	Up
57655	GRAMD1A	GRAM domain containing 1A	0.748	4.333	Up
5348	FXYD1	FXYD domain containing ion transport regulator 1	1.426	4.599	Up
53822	FXYD7	FXYD domain containing ion transport regulator 7	2.301	16.65	Up
53827	FXYD5	FXYD domain containing ion transport regulator 5	1.239	6.585	Up
7392	USF2	upstream transcription factor 2, c-fos interacting	0.556	3.186	Up
79713	IGFLR1	IGF like family receptor 1	0.642	2.359	Up
199746	U2AF1L4	U2 small nuclear RNA auxiliary factor 1 like 4	0.393	1.63	Up
10870	HCST	hematopoietic cell signal transducer	1.069	3.311	Up
7305	TYROBP	transmembrane immune signaling adaptor TYROBP	2.16	5.045	Up
199745	THAP8	THAP domain containing 8	1.145	3.687	Up
147929	ZNF565	zinc finger protein 565	1.01	4.016	Up
57677	ZFP14	ZFP14 zinc finger protein	1.72	33.712	Up
284406	ZFP82	ZFP82 zinc finger protein	0.395	2.171	Up
84924	ZNF566	zinc finger protein 566	0.937	10.589	Up
339324	ZNF260	zinc finger protein 260	0.843	7.748	Up
57711	ZNF529	zinc finger protein 529	1.044	16.924	Up
1.02E+08	ZNF529-AS1	ZNF529 antisense RNA 1	0.807	1.416	Up
92283	ZNF461	zinc finger protein 461	0.72	2.937	Up
1.02E+08	ZNF567-DT	ZNF567 divergent transcript	1.661	3.642	Up
388536	ZNF790	zinc finger protein 790	0.801	2.136	Up
25850	ZNF345	zinc finger protein 345	1.397	13.251	Up
374900	ZNF568	zinc finger protein 568	0.704	4.322	Up
147923	ZNF420	zinc finger protein 420	0.782	1.571	Up
199704	ZNF585A	zinc finger protein 585A	0.9	2.985	Up
92285	ZNF585B	zinc finger protein 585B	0.832	2.874	Up
163087	ZNF383	zinc finger protein 383	1.274	14.125	Up
284459	ZNF875	zinc finger protein 875	1.058	9.435	Up
84503	ZNF527	zinc finger protein 527	0.777	3.435	Up
148266	ZNF569	zinc finger protein 569	0.474	1.503	Up
163255	ZNF540	zinc finger protein 540	1.775	8.802	Up
51276	ZNF571	zinc finger protein 571	0.914	3.889	Up
22835	ZFP30	ZFP30 zinc finger protein	1.206	2.822	Up
163115	ZNF781	zinc finger protein 781	1.136	2.325	Up
84775	ZNF607	zinc finger protein 607	0.787	1.921	Up
3960	LGALS4	galectin 4	2.735	1.435	Up
342897	NCCRP1	NCCRP1, F-box associated domain containing	4.479	13.557	Up
57622	LRFN1	leucine rich repeat and fibronectin type III domain containing 1	1.054	7.29	Up
126272	EID2B	EP300 interacting inhibitor of differentiation 2B	0.641	1.404	Up

9149	DYRK1B	dual specificity tyrosine phosphorylation regulated kinase 1B	1.482	9.917	Up
8857	FCGBP	Fc gamma binding protein	1.232	1.914	Up
339327	ZNF546	zinc finger protein 546	0.762	2.782	Up
284323	ZNF780A	zinc finger protein 780A	0.957	3.918	Up
23646	PLD3	phospholipase D family member 3	1.012	13.549	Up
57716	PRX	periaxin	1.457	3.188	Up
1.01E+08	RAB4B-EGLN2	RAB4B-EGLN2 readthrough (NMD candidate)	0.493	1.972	Up
112398	EGLN2	egl-9 family hypoxia inducible factor 2	0.512	2.186	Up
1556	CYP2B7P	cytochrome P450 family 2 subfamily B member 7, pseudogene	1.775	1.928	Up
29785	CYP2S1	cytochrome P450 family 2 subfamily S member 1	2.604	2.942	Up
558	AXL	AXL receptor tyrosine kinase	4.361	5.678	Up
11100	HNRNPUL1	heterogeneous nuclear ribonucleoprotein U like 1	0.355	1.325	Up
1.05E+08	LOC105372401	uncharacterized LOC105372401	0.355	1.443	Up
374907	B3GNT8	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	1.501	1.312	Up
90273	CEACAM21	CEA cell adhesion molecule 21	0.96	2.297	Up
1089	CEACAM4	CEA cell adhesion molecule 4	4.35	2.367	Up
973	CD79A	CD79a molecule	1.773	2.199	Up
9138	ARHGEF1	Rho guanine nucleotide exchange factor 1	0.893	4.845	Up
390937	ERFL	ETS repressor factor like	1.524	3.701	Up
1.01E+08	LOC100505585	replaced by ID 9138	2.4	7.305	Up
478	ATP1A3	ATPase Na+/K+ transporting subunit alpha 3	0.912	2.492	Up
1.01E+08	POU2F2-AS1	POU2F2 antisense RNA 1	1.555	2.593	Up
162989	DEDD2	death effector domain containing 2	0.779	4.992	Up
27076	LYPD3	LY6/PLAUR domain containing 3	1.787	8.66	Up
284346	ZNF575	zinc finger protein 575	1.531	3.416	Up
7515	XRCC1	X-ray repair cross complementing 1	0.572	3.064	Up
284349	ZNF283	zinc finger protein 283	0.783	3.539	Up
7596	ZNF45	zinc finger protein 45	0.523	2.429	Up
7711	ZNF155	zinc finger protein 155	0.69	3.305	Up
1.02E+08	ZNF230-DT	ZNF230 divergent transcript	0.879	2.906	Up
7773	ZNF230	zinc finger protein 230	1.408	12.2	Up
7673	ZNF222	zinc finger protein 222	0.677	2.071	Up
7766	ZNF223	zinc finger protein 223	1.411	7.841	Up
342909	ZNF284	zinc finger protein 284	1.09	6.868	Up
7767	ZNF224	zinc finger protein 224	1.577	15.117	Up
1E+08	ZNF225-AS1	ZNF225 and ZNF224 antisense RNA 1	1.544	13.3	Up
7768	ZNF225	zinc finger protein 225	1.411	10.953	Up
10780	ZNF234	zinc finger protein 234	0.777	5.096	Up
7769	ZNF226	zinc finger protein 226	1.154	12.066	Up
7770	ZNF227	zinc finger protein 227	0.998	12.203	Up
353355	ZNF233	zinc finger protein 233	1.605	1.942	Up
9310	ZNF235	zinc finger protein 235	0.692	3.164	Up
7733	ZNF180	zinc finger protein 180	0.93	9.061	Up
79090	TRAPPC6A	trafficking protein particle complex subunit 6A	0.929	3.307	Up

388552	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3	0.712	5.254	Up
57469	PNMA8B	PNMA family member 8B	0.842	1.307	Up
25865	PRKD2	protein kinase D2	0.376	1.473	Up
1.08E+08	LOC107987269	uncharacterized LOC107987269	0.68	3.056	Up
2909	ARHGAP35	Rho GTPase activating protein 35	0.598	1.571	Up
728	C5AR1	complement C5a receptor 1	3.111	5.299	Up
27202	C5AR2	complement C5a receptor 2	2.872	2.455	Up
29998	BICRA	BRD4 interacting chromatin remodeling complex associated protein	0.756	2.004	Up
29997	NOP53	NOP53 ribosome biogenesis factor	0.604	1.786	Up
1.06E+08	NOP53-AS1	NOP53 antisense RNA 1	0.678	1.933	Up
6415	SELENOW	selenoprotein W	0.872	2.032	Up
22900	CARD8	caspase recruitment domain family member 8	1.051	17.298	Up
1.01E+08	CARD8-AS1	CARD8 antisense RNA 1	0.86	3.713	Up
93233	ODAD1	outer dynein arm docking complex subunit 1	2.22	2.829	Up
55260	TMEM143	transmembrane protein 143	1.009	3.105	Up
114783	LMTK3	lemur tyrosine kinase 3	1.726	6.801	Up
1628	DBP	D-box binding PAR bZIP transcription factor	3.183	49.165	Up
770	CA11	carbonic anhydrase 11	0.751	3.27	Up
653677	SEC1P	secretory blood group 1, pseudogene	1.5	2.827	Up
126147	NTN5	netrin 5	3.396	4.269	Up
1.05E+08	LOC105372431	uncharacterized LOC105372431	2.011	1.795	Up
1.05E+08	LOC105447645	uncharacterized LOC105447645	2.371	1.584	Up
28968	SLC6A16	solute carrier family 6 member 16	1.209	3.697	Up
951	CD37	CD37 molecule	1.253	13.317	Up
2217	FCGRT	Fc gamma receptor and transporter	1.117	4.467	Up
51070	NOSIP	nitric oxide synthase interacting protein	1.051	1.935	Up
57479	PRR12	proline rich 12	1.385	5.667	Up
6689	SPIB	Spi-B transcription factor	1.657	1.755	Up
27036	SIGLEC7	sialic acid binding Ig like lectin 7	2.525	1.557	Up
7728	ZNF175	zinc finger protein 175	0.608	2.07	Up
2359	FPR3	formyl peptide receptor 3	3.446	5.85	Up
84765	ZNF577	zinc finger protein 577	1.196	4.082	Up
59348	ZNF350	zinc finger protein 350	1.42	11.974	Up
284370	ZNF615	zinc finger protein 615	0.997	7.477	Up
284371	ZNF841	zinc finger protein 841	0.62	1.674	Up
90317	ZNF616	zinc finger protein 616	1.398	13.085	Up
162962	ZNF836	zinc finger protein 836	1.314	8.06	Up
90321	ZNF766	zinc finger protein 766	0.982	12.84	Up
162963	ZNF610	zinc finger protein 610	1.689	5.319	Up
1.03E+08	ZNF528-AS1	ZNF528 antisense RNA 1	1.739	2.342	Up
84436	ZNF528	zinc finger protein 528	1.471	9.068	Up
388558	ZNF808	zinc finger protein 808	0.635	1.418	Up
55762	ZNF701	zinc finger protein 701	1.209	11.288	Up
7696	ZNF137P	zinc finger protein 137, pseudogene	1.485	2.761	Up
55769	ZNF83	zinc finger protein 83	1.328	14.785	Up

162966	ZNF600	zinc finger protein 600	0.647	1.584	Up
162967	ZNF320	zinc finger protein 320	0.694	5.549	Up
1.01E+08	ZNF816-ZNF321P	ZNF816-ZNF321P readthrough	1.123	2.759	Up
125893	ZNF816	zinc finger protein 816	1.278	9.141	Up
79986	ZNF702P	zinc finger protein 702, pseudogene	0.964	3.087	Up
90338	ZNF160	zinc finger protein 160	1.351	3.686	Up
84671	ZNF347	zinc finger protein 347	0.824	3.712	Up
390963	ZNF818P	zinc finger protein 818, pseudogene	1.564	1.884	Up
91664	ZNF845	zinc finger protein 845	0.962	11.778	Up
1.08E+08	LOC107987264	putative zinc finger protein 137	0.973	4.122	Up
170958	ZNF525	zinc finger protein 525	0.94	5.365	Up
91661	ZNF765	zinc finger protein 765	0.458	1.928	Up
1.1E+08	ZNF765-ZNF761	ZNF765-ZNF761 readthrough	0.732	3.734	Up
388561	ZNF761	zinc finger protein 761	0.714	3.721	Up
55422	ZNF331	zinc finger protein 331	0.361	2.762	Up
91663	MYADM	myeloid associated differentiation marker	0.548	1.455	Up
126014	OSCAR	osteoclast associated Ig-like receptor	1.955	2.226	Up
10288	LILRB2	leukocyte immunoglobulin like receptor B2	2.225	1.554	Up
3903	LAIR1	leukocyte associated immunoglobulin like receptor 1	2.855	11.974	Up
11027	LILRA2	leukocyte immunoglobulin like receptor A2	2.52	2.064	Up
255043	TMEM86B	transmembrane protein 86B	1.152	3.057	Up
84787	KMT5C	lysine methyltransferase 5C	1.347	3.381	Up
388564	TMEM238	transmembrane protein 238	0.6	1.301	Up
147807	ZNF524	zinc finger protein 524	1.23	7.299	Up
1.01E+08	ZNF865	zinc finger protein 865	0.878	3.475	Up
51545	ZNF581	zinc finger protein 581	0.623	2.353	Up
147948	ZNF582	zinc finger protein 582	0.593	2.376	Up
386758	ZNF582-DT	ZNF582 divergent transcript	0.915	2.172	Up
140612	ZFP28	ZFP28 zinc finger protein	0.854	1.508	Up
90485	ZNF835	zinc finger protein 835	1.352	1.305	Up
9422	ZNF264	zinc finger protein 264	0.625	2.71	Up
1.05E+08	ZNF460-AS1	ZNF460 antisense RNA 1	1.779	1.818	Up
57343	ZNF304	zinc finger protein 304	0.89	8.329	Up
147694	ZNF548	zinc finger protein 548	0.781	3.527	Up
7565	ZNF17	zinc finger protein 17	0.629	3.031	Up
400720	ZNF772	zinc finger protein 772	0.835	2.877	Up
79744	ZNF419	zinc finger protein 419	1.073	9.527	Up
374928	ZNF773	zinc finger protein 773	1.108	7.433	Up
256051	ZNF549	zinc finger protein 549	1.038	13.925	Up
162972	ZNF550	zinc finger protein 550	1.667	7.196	Up
55659	ZNF416	zinc finger protein 416	0.456	1.694	Up
284307	ZIK1	zinc finger protein interacting with K protein 1	0.751	3.256	Up
348327	ZNF530	zinc finger protein 530	1.174	7.83	Up
7693	ZNF134	zinc finger protein 134	0.692	4.997	Up
10520	ZNF211	zinc finger protein 211	1.241	11.245	Up
90233	ZNF551	zinc finger protein 551	0.335	1.319	Up
79891	ZNF671	zinc finger protein 671	1.358	14.557	Up

284309	ZNF776	zinc finger protein 776	0.79	5.124	Up
54807	ZNF586	zinc finger protein 586	0.849	3.635	Up
147687	ZNF417	zinc finger protein 417	0.96	2.553	Up
147686	ZNF418	zinc finger protein 418	1.555	2.007	Up
80095	ZNF606	zinc finger protein 606	1.531	10.33	Up
1E+08	LOC100128398	uncharacterized LOC100128398	1.165	1.353	Up
65982	ZSCAN18	zinc finger and SCAN domain containing 18	1.081	5.753	Up
79673	ZNF329	zinc finger protein 329	0.608	1.324	Up
116412	ZNF837	zinc finger protein 837	0.937	1.697	Up
55663	ZNF446	zinc finger protein 446	0.902	3.685	Up
7593	MZF1	myeloid zinc finger 1	0.994	3.615	Up
6666	SOX12	SRY-box transcription factor 12	0.745	1.645	Up
9751	SNPH	syntaphilin	1.817	11.299	Up
10326	SIRPB1	signal regulatory protein beta 1	1.167	1.32	Up
55423	SIRPG	signal regulatory protein gamma	1.138	3.362	Up
140885	SIRPA	signal regulatory protein alpha	1.613	1.652	Up
79175	ZNF343	zinc finger protein 343	0.344	1.568	Up
64773	PCED1A	PC-esterase domain containing 1A	1.591	10.373	Up
5786	PTPRA	protein tyrosine phosphatase receptor type A	0.682	5.15	Up
1.02E+08	LOC101929098	uncharacterized LOC101929098	2.441	1.801	Up
551	AVP	arginine vasopressin	3.792	3.056	Up
1E+08	UBOX5-AS1	UBOX5 antisense RNA 1	0.963	1.892	Up
22888	UBOX5	U-box domain containing 5	0.534	4.73	Up
9762	LZTS3	leucine zipper tumor suppressor family member 3	1.136	4.102	Up
994	CDC25B	cell division cycle 25B	2.587	23.028	Up
1.02E+08	LINC01730	long intergenic non-protein coding RNA 1730	4.572	2.482	Up
8760	CDS2	CDP-diacylglycerol synthase 2	0.601	4.167	Up
56255	TMX4	thioredoxin related transmembrane protein 4	1.597	14.213	Up
23236	PLCB1	phospholipase C beta 1	1.394	1.573	Up
8195	MKKS	MKKS centrosomal shuttling protein	0.537	1.624	Up
140862	ISM1	isthmin 1	2.956	10.428	Up
92667	MGME1	mitochondrial genome maintenance exonuclease 1	0.373	1.524	Up
57325	KAT14	lysine acetyltransferase 14	0.513	3.538	Up
7692	ZNF133	zinc finger protein 133	1.214	7.239	Up
55184	DZANK1	double zinc ribbon and ankyrin repeat domains 1	1.321	3.391	Up
3642	INSM1	INSM transcriptional repressor 1	2.1	1.412	Up
55857	KIZ	kizuna centrosomal protein	1.226	9.541	Up
7056	THBD	thrombomodulin	1.638	1.981	Up
1471	CST3	cystatin C	1.024	1.794	Up
84532	ACSS1	acyl-CoA synthetase short chain family member 1	0.84	6.099	Up
26152	ZNF337	zinc finger protein 337	0.724	1.68	Up
1E+08	FRG1CP	FSHD region gene 1 family member C, pseudogene	0.848	5.547	Up
1.03E+08	FRG1DP	FSHD region gene 1 family member D, pseudogene	1.387	1.323	Up
1.08E+08	LOC107985433	putative uncharacterized protein LOC401522	2.056	1.634	Up
284802	FRG1BP	FSHD region gene 1 family member B, pseudogene	0.649	2.133	Up
1.05E+08	BCL2L1-AS1	BCL2L1 antisense RNA 1	2.223	1.379	Up

140688	NOL4L	nucleolar protein 4 like	2.216	10.949	Up
1.02E+08	LOC101929698	uncharacterized LOC101929698	4.251	18.276	Up
9139	CBFA2T2	CBFA2/RUNX1 partner transcriptional co-repressor 2	1.386	4.786	Up
170487	ACTL10	actin like 10	0.487	1.394	Up
11264	PXMP4	peroxisomal membrane protein 4	1.298	9.589	Up
10893	MMP24	matrix metallopeptidase 24	0.707	1.385	Up
51230	PHF20	PHD finger protein 20	0.36	1.889	Up
647979	NORAD	non-coding RNA activated by DNA damage	0.482	1.813	Up
57446	NDRG3	NDRG family member 3	1.065	11.633	Up
10904	BLCAP	BLCAP apoptosis inducing factor	1.128	4.863	Up
128439	SNHG11	small nucleolar RNA host gene 11	0.904	1.369	Up
9935	MAFB	MAF bZIP transcription factor B	3.654	7.073	Up
5335	PLCG1	phospholipase C gamma 1	1.101	3.225	Up
84181	CHD6	chromodomain helicase DNA binding protein 6	1.108	3.452	Up
51526	OSER1	oxidative stress responsive serine rich 1	0.769	3.018	Up
1.01E+08	OSER1-DT	OSER1 divergent transcript	2.819	9.626	Up
128486	FITM2	fat storage inducing transmembrane protein 2	1.126	3.05	Up
10955	SERINC3	serine incorporator 3	0.793	4.248	Up
6789	STK4	serine/threonine kinase 4	0.732	5.68	Up
63935	PCIF1	phosphorylated CTD interacting factor 1	0.503	3.583	Up
4318	MMP9	matrix metallopeptidase 9	2.981	2.659	Up
1.1E+08	SLC12A5-AS1	SLC12A5 and MMP9 antisense RNA 1	3.131	3.763	Up
64849	SLC13A3	solute carrier family 13 member 3	0.905	1.308	Up
23613	ZMYND8	zinc finger MYND-type containing 8	0.957	2.3	Up
57580	PREX1	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1	0.73	2.633	Up
441951	ZFAS1	ZNFX1 antisense RNA 1	1.212	4.516	Up
84612	PARD6B	par-6 family cell polarity regulator beta	0.76	1.874	Up
1591	CYP24A1	cytochrome P450 family 24 subfamily A member 1	4.173	3.158	Up
116151	FAM210B	family with sequence similarity 210 member B	1.75	11.501	Up
57091	CASS4	Cas scaffold protein family member 4	0.741	1.43	Up
81030	ZBP1	Z-DNA binding protein 1	3.937	21.466	Up
56937	PMEPA1	prostate transmembrane protein, androgen induced 1	1.947	2.579	Up
1.05E+08	NKILA	NF-kappaB interacting lncRNA	1.258	2.108	Up
128611	ZNF831	zinc finger protein 831	2.068	7.955	Up
1908	EDN3	endothelin 3	3.522	1.323	Up
63939	FAM217B	family with sequence similarity 217 member B	1.063	10.345	Up
5509	PPP1R3D	protein phosphatase 1 regulatory subunit 3D	0.931	4.681	Up
1E+08	LOC100128310	uncharacterized LOC100128310	2.005	1.696	Up
149986	LSM14B	LSM family member 14B	0.491	3.31	Up
9885	OSBPL2	oxysterol binding protein like 2	0.597	4.255	Up
1.02E+08	SLCO4A1-AS2	SLCO4A1 antisense RNA 2	1.707	8.631	Up
4923	NTSR1	neurotensin receptor 1	3.092	1.467	Up
10732	TCFL5	transcription factor like 5	0.575	2.567	Up
768096	HAR1A	highly accelerated region 1A	1.248	2.571	Up
1.01E+08	MHENCR	melanoma highly expressed competing endogenous lncRNA for miR-425 and miR-489	2.895	35.57	Up

50861	STMN3	stathmin 3	1.447	7.973	Up
54923	LIME1	Lck interacting transmembrane adaptor 1	2.933	23.313	Up
56731	SLC2A4RG	SLC2A4 regulator	0.702	2.199	Up
140685	ZBTB46	zinc finger and BTB domain containing 46	0.722	1.671	Up
80331	DNAJC5	DnaJ heat shock protein family (Hsp40) member C5	0.513	2.226	Up
4987	OPRL1	opioid related nociceptin receptor 1	3.172	7.954	Up
55251	PCMTD2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	2.277	40.11	Up
1.03E+08	LOC102723996	ICOS ligand	1.04	1.442	Up
1.03E+08	LOC102724023	glutamine amidotransferase class 1 domain containing 3B	0.653	1.64	Up
1.03E+08	LOC102724200	trafficking protein particle complex subunit 10-like	0.628	2.17	Up
1.08E+08	LINC02246	long intergenic non-protein coding RNA 2246	0.872	1.316	Up
8204	NRIP1	nuclear receptor interacting protein 1	1.175	2.614	Up
29761	USP25	ubiquitin specific peptidase 25	0.634	5.824	Up
351	APP	amyloid beta precursor protein	0.47	2.144	Up
56911	MAP3K7CL	MAP3K7 C-terminal like	1.547	2.943	Up
571	BACH1	BTB domain and CNC homolog 1	0.596	1.52	Up
84996	URB1-AS1	URB1 antisense RNA 1 (head to head)	1.006	1.337	Up
8867	SYNJ1	synaptojanin 1	0.801	2.53	Up
1.01E+08	PAXBP1-AS1	PAXBP1 antisense RNA 1	1.049	2.037	Up
54067	C21orf62-AS1	C21orf62 antisense RNA 1	2.975	10.726	Up
3455	IFNAR2	interferon alpha and beta receptor subunit 2	0.948	11.169	Up
1E+08	IL10RB-DT	IL10RB divergent transcript	1.288	1.485	Up
3454	IFNAR1	interferon alpha and beta receptor subunit 1	0.325	1.525	Up
757	TMEM50B	transmembrane protein 50B	0.563	2.07	Up
1.01E+08	LINC00649	long intergenic non-protein coding RNA 649	1.66	3.999	Up
1.02E+08	LOC101928126	uncharacterized LOC101928126	2.034	4.325	Up
23515	MORC3	MORC family CW-type zinc finger 3	0.391	1.788	Up
7267	TTC3	tetratricopeptide repeat domain 3	1.17	8.24	Up
1.01E+08	TTC3-AS1	TTC3 antisense RNA 1	1.325	6.586	Up
1859	DYRK1A	dual specificity tyrosine phosphorylation regulated kinase 1A	0.587	3.42	Up
2078	ERG	ETS transcription factor ERG	1.785	1.94	Up
54014	BRWD1	bromodomain and WD repeat domain containing 1	1.223	7.414	Up
25966	C2CD2	C2 calcium dependent domain containing 2	0.704	1.992	Up
89766	UMODL1	uromodulin like 1	3.733	2.41	Up
9619	ABCG1	ATP binding cassette subfamily G member 1	1.58	3.197	Up
1.05E+08	LOC105372817	uncharacterized LOC105372817	1.818	1.512	Up
90625	ERVH48-1	endogenous retrovirus group 48 member 1, envelope	4.207	4.297	Up
8209	GATD3	glutamine amidotransferase class 1 domain containing 3	0.62	1.527	Up
23308	ICOSLG	inducible T cell costimulator ligand	1.278	2.473	Up
3689	ITGB2	integrin subunit beta 2	0.896	6.75	Up
1.01E+08	ITGB2-AS1	ITGB2 antisense RNA 1	2.153	9.253	Up

642852	LINC00205	long intergenic non-protein coding RNA 205	1.531	5.22	Up
54059	YBEY	ybeY metalloendoribonuclease	0.424	1.403	Up
54058	C21orf58	chromosome 21 open reading frame 58	1.181	2.106	Up
23181	DIP2A	disco interacting protein 2 homolog A	0.708	1.38	Up
6285	S100B	S100 calcium binding protein B	2.847	2.882	Up
3275	PRMT2	protein arginine methyltransferase 2	0.926	9.089	Up
23765	IL17RA	interleukin 17 receptor A	1.749	9.538	Up
51816	ADA2	adenosine deaminase 2	3.764	14.125	Up
200298	LINC00528	long intergenic non-protein coding RNA 528	1.737	7.818	Up
728229	TMEM191B	transmembrane protein 191B	2.251	4.531	Up
85376	RIMBP3	RIMS binding protein 3	3.285	25.397	Up
9993	DGCR2	DiGeorge syndrome critical region gene 2	1.019	15.75	Up
128977	C22orf39	chromosome 22 open reading frame 39	0.913	5.338	Up
1.05E+08	UFD1-AS1	UFD1 antisense RNA 1	0.819	1.379	Up
79680	RTL10	retrotransposon Gag like 10	1.078	4.841	Up
65078	RTN4R	reticulon 4 receptor	1.997	6.282	Up
91179	SCARF2	scavenger receptor class F member 2	1.862	3.108	Up
84861	KLHL22	kelch like family member 22	1.148	7.158	Up
51586	MED15	mediator complex subunit 15	0.956	4.459	Up
84222	TMEM191A	transmembrane protein 191A (pseudogene)	1.994	8.449	Up
400892	BCRP2	BCR pseudogene 2	1.391	2.625	Up
440804	RIMBP3B	RIMS binding protein 3B	3.132	23.144	Up
645426	TMEM191C	transmembrane protein 191C	2.403	6.909	Up
150221	RIMBP3C	RIMS binding protein 3C	2.888	22.112	Up
29799	YPEL1	yippee like 1	1.608	8.399	Up
25812	POM121L1P	POM121 transmembrane nucleoporin like 1, pseudogene	1.071	1.323	Up
1.08E+08	LOC107985542		6.474	3.804	Up
28804	IGLV3-9	immunoglobulin lambda variable 3-9	4.572	2.268	Up
51233	DRICH1	aspartate rich 1	5.284	1.785	Up
266747	RGL4	ral guanine nucleotide dissociation stimulator like 4	1.101	3.166	Up
66035	SLC2A11	solute carrier family 2 member 11	1.527	4.223	Up
23523	CABIN1	calcineurin binding protein 1	0.683	2.036	Up
1.02E+08	SPECC1L-ADORA2A	SPECC1L-ADORA2A readthrough (NMD candidate)	0.507	4.94	Up
135	ADORA2A	adenosine A2a receptor	0.979	5.295	Up
646023	ADORA2A-AS1	ADORA2A antisense RNA 1	1.014	2.832	Up
646074	POM121L10P	POM121 transmembrane nucleoporin like 10, pseudogene	0.798	1.636	Up
129049	SGSM1	small G protein signaling modulator 1	2.194	4.039	Up
1.01E+08	TFIP11-DT	TFIP11 divergent transcript	1.356	2.591	Up
1.03E+08	MIATNB	MIAT neighbor	1.179	4.967	Up
4330	MN1	MN1 proto-oncogene, transcriptional regulator	1.889	2.912	Up
284900	TTC28-AS1	TTC28 antisense RNA 1	1.345	7.89	Up
23331	TTC28	tetratricopeptide repeat domain 28	2.105	2.711	Up
10634	GAS2L1	growth arrest specific 2 like 1	1.632	4.515	Up
8897	MTMR3	myotubularin related protein 3	0.578	2.926	Up

1.02E+08	HORMAD2-AS1	HORMAD2 and MTMR3 antisense RNA 1	0.86	1.642	Up
652968	CASTOR1	cytosolic arginine sensor for mTORC1 subunit 1	1.297	4.997	Up
83874	TBC1D10A	TBC1 domain family member 10A	1.101	8.019	Up
9514	GAL3ST1	galactose-3-O-sulfotransferase 1	2.763	2.895	Up
6948	TCN2	transcobalamin 2	1.892	1.657	Up
1.08E+08	LOC107985544	uncharacterized LOC107985544	1.659	6.198	Up
150291	MORC2-AS1	MORC2 antisense RNA 1	0.883	3.19	Up
22880	MORC2	MORC family CW-type zinc finger 2	0.704	4.656	Up
55000	TUG1	taurine up-regulated 1	0.54	2.318	Up
3985	LIMK2	LIM domain kinase 2	1.438	17.869	Up
113791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	3.188	52.496	Up
23598	PATZ1	POZ/BTB and AT hook containing zinc finger 1	0.717	9.347	Up
54944	LINC01521	long intergenic non-protein coding RNA 1521	1.226	1.317	Up
9814	SFI1	SFI1 centrin binding protein	1.267	3.328	Up
10043	TOM1	target of myb1 membrane trafficking protein	0.489	1.826	Up
1.03E+08	LOC102723507		2.754	5.132	Up
114904	C1QTNF6	C1q and TNF related 6	2.417	3.714	Up
27128	CYTH4	cytohesin 4	1.711	13.548	Up
1.05E+08	LOC105373024	uncharacterized LOC105373024	1.616	5.843	Up
114794	ELFN2	extracellular leucine rich repeat and fibronectin type III domain containing 2	2.55	5.367	Up
4242	MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.577	1.377	Up
10521	DDX17	DEAD-box helicase 17	0.695	2.783	Up
25776	CBY1	chibby family member 1, beta catenin antagonist	1.019	4.757	Up
9567	GTPBP1	GTP binding protein 1	0.883	18.248	Up
25777	SUN2	Sad1 and UNC84 domain containing 2	2.731	59.635	Up
10126	DNAL4	dynein axonemal light chain 4	0.537	1.653	Up
23467	NPTXR	neuronal pentraxin receptor	1.419	5.387	Up
23492	CBX7	chromobox 7	1.23	16.072	Up
5155	PDGFB	platelet derived growth factor subunit B	3.567	10.038	Up
10454	TAB1	TGF-beta activated kinase 1 (MAP3K7) binding protein 1	0.813	4.835	Up
1.01E+08	LOC100506472	uncharacterized LOC100506472	2.365	2.858	Up
4248	MGAT3	beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	1.08	1.365	Up
8911	CACNA1I	calcium voltage-gated channel subunit alpha1 I	2.911	40.775	Up
9402	GRAP2	GRB2 related adaptor protein 2	0.577	3.566	Up
23112	TNRC6B	trinucleotide repeat containing adaptor 6B	0.79	2.31	Up
57591	MRTFA	myocardin related transcription factor A	1.113	10.069	Up
7008	TEF	TEF transcription factor, PAR bZIP family member	1.11	11.47	Up
5372	PMM1	phosphomannomutase 1	0.514	1.732	Up
150365	MEI1	meiotic double-stranded break formation protein 1	0.773	3.125	Up
115650	TNFRSF13C	TNF receptor superfamily member 13C	1.359	1.953	Up
1E+08	NDUFA6-DT	NDUFA6 divergent transcript	0.789	2.78	Up
1.03E+08	LOC102723722	uncharacterized LOC102723722	1.165	2.571	Up
53947	A4GALT	alpha 1,4-galactosyltransferase (P blood group)	3.113	3.429	Up
11252	PACSIN2	protein kinase C and casein kinase substrate in neurons 2	0.493	3.368	Up

1.01E+08	TTLL1-AS1	TTLL1 antisense RNA 1	1.68	2.133	Up
25809	TTLL1	TTL family tubulin polyglutamylase complex subunit L1	1.394	10.004	Up
84247	RTL6	retrotransposon Gag like 6	0.484	1.624	Up
55007	FAM118A	family with sequence similarity 118 member A	0.49	1.476	Up
64781	CERK	ceramide kinase	1.401	20.516	Up
1.05E+08	LOC105373077	uncharacterized LOC105373077	1.713	3.685	Up
1.08E+08	LOC107985566		4.946	4.42	Up
23774	BRD1	bromodomain containing 1	0.626	1.675	Up
79087	ALG12	ALG12 alpha-1,6-mannosyltransferase	0.332	1.399	Up
23209	MLC1	modulator of VRAC current 1	2.323	7.97	Up
6305	SBF1	SET binding factor 1	0.58	1.617	Up
410	ARSA	arylsulfatase A	0.787	2.218	Up
1.08E+08	LOC107987388	replaced by ID 102724151	1.348	1.652	Up
286530	P2RY8	P2Y receptor family member 8	1.547	7.387	Up
1.05E+08	LINC02968	long intergenic non-protein coding RNA 2968	2.112	1.352	Up
1.02E+08	LOC101928092	uncharacterized LOC101928092	1.929	2.196	Up
6907	TBL1X	transducin beta like 1 X-linked	1.127	5.491	Up
1183	CLCN4	chloride voltage-gated channel 4	2.082	2.909	Up
170082	TCEANC	transcription elongation factor A N-terminal and central domain containing	1.154	7.223	Up
1.08E+08	LOC107985656	uncharacterized LOC107985656	3.154	2.891	Up
6399	TRAPPC2	trafficking protein particle complex subunit 2	0.663	5.041	Up
1.14E+08	CA5BP1-CA5B	CA5BP1-CA5B readthrough	1.159	4.853	Up
11238	CA5B	carbonic anhydrase 5B	1.425	7.412	Up
8551	INE2	inactivation escape 2	1.786	4.002	Up
56474	CTPS2	CTP synthase 2	0.595	2.47	Up
9185	REPS2	RALBP1 associated Eps domain containing 2	3.54	6.65	Up
6322	SCML1	Scm polycomb group protein like 1	1.692	5.412	Up
5256	PHKA2	phosphorylase kinase regulatory subunit alpha 2	0.546	2.001	Up
30011	SH3KBP1	SH3 domain containing kinase binding protein 1	0.757	5.04	Up
256643	BCLAF3	BCLAF1 and THRAP3 family member 3	0.766	1.707	Up
6197	RPS6KA3	ribosomal protein S6 kinase A3	0.629	1.379	Up
257240	KLHL34	kelch like family member 34	1.288	2.862	Up
51360	MBTPS2	membrane bound transcription factor peptidase, site 2	0.706	4.467	Up
1536	CYBB	cytochrome b-245 beta chain	2.138	2.826	Up
1.05E+08	LOC105373174		2.008	1.597	Up
1.05E+08	LOC105373177	uncharacterized LOC105373177	2.499	2.192	Up
80258	EFHC2	EF-hand domain containing 2	2.77	3.844	Up
55634	KRBOX4	KRAB box domain containing 4	0.984	5.597	Up
641339	ZNF674	zinc finger protein 674	0.979	3.805	Up
56548	CHST7	carbohydrate sulfotransferase 7	0.967	5.779	Up
7592	ZNF41	zinc finger protein 41	0.261	1.51	Up
203414	LINC01560	long intergenic non-protein coding RNA 1560	0.794	1.358	Up

6853	SYN1	synapsin I	1.269	2.298	Up
7076	TIMP1	TIMP metallopeptidase inhibitor 1	1.066	7.07	Up
5199	CFP	complement factor properdin	2.44	21.892	Up
7569	ZNF182	zinc finger protein 182	0.956	7.483	Up
57232	ZNF630	zinc finger protein 630	0.798	1.479	Up
1.05E+08	LOC105373195	uncharacterized LOC105373195	1.918	1.947	Up
389856	USP27X	ubiquitin specific peptidase 27 X-linked	0.601	1.312	Up
1.05E+08	LOC105373204	uncharacterized LOC105373204	3.112	4.431	Up
81557	MAGED4B	MAGE family member D4B	1.305	3.397	Up
728239	MAGED4	MAGE family member D4	1.4	3.836	Up
54954	FAM120C	family with sequence similarity 120C	1.212	4.424	Up
2245	FGD1	FYVE, RhoGEF and PH domain containing 1	1.051	7.268	Up
1E+08	MTRNR2L10	MT-RNR2 like 10 (pseudogene)	1.461	1.669	Up
158880	USP51	ubiquitin specific peptidase 51	1.121	4.553	Up
550643	NBDY	negative regulator of P-body association	0.504	1.553	Up
169981	SPIN3	spindlin family member 3	1.026	2.845	Up
158586	ZXDB	zinc finger X-linked duplicated B	0.63	2.596	Up
7789	ZXDA	zinc finger X-linked duplicated A	0.726	4.163	Up
139886	SPIN4	spindlin family member 4	1.209	5.106	Up
92249	LINC01278	long intergenic non-protein coding RNA 1278	0.918	8.398	Up
23229	ARHGEF9	Cdc42 guanine nucleotide exchange factor 9	1.379	22.251	Up
55906	ZC4H2	zinc finger C4H2-type containing	0.488	1.891	Up
340554	ZC3H12B	zinc finger CCCH-type containing 12B	1.486	7.542	Up
1.08E+08	LOC107985679		4.451	6.714	Up
3476	IGBP1	immunoglobulin binding protein 1	1.16	4.606	Up
4303	FOXO4	forkhead box O4	1.464	8.103	Up
9203	ZMYM3	zinc finger MYM-type containing 3	0.809	7.345	Up
1.05E+08	LOC105373247	uncharacterized LOC105373247	1.606	1.926	Up
8473	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase	0.84	5.301	Up
441501	LINC00891	long intergenic non-protein coding RNA 891	4.892	8.642	Up
1E+08	LOC100132741	uncharacterized LOC100132741	4.848	8.397	Up
340527	NHSL2	NHS like 2	4.578	33.146	Up
392490	FLJ44635	replaced by ID 340527	1.001	1.548	Up
728656	DMRTC1B	DMRT like family C1B	1.516	1.916	Up
653687	FAM226B	family with sequence similarity 226 member B	1.114	2.509	Up
63947	DMRTC1	DMRT like family C1	1.334	1.648	Up
203429	FAM226A	family with sequence similarity 226 member A	1.165	2.857	Up
4674	NAP1L2	nucleosome assembly protein 1 like 2	0.915	3.554	Up
286495	TTC3P1	tetratricopeptide repeat domain 3 pseudogene 1	0.769	1.928	Up
57692	MAGEE1	MAGE family member E1	1.17	4.345	Up
538	ATP7A	ATPase copper transporting alpha	0.547	2.983	Up
27334	P2RY10	P2Y receptor family member 10	1.625	7.27	Up
9452	ITM2A	integral membrane protein 2A	1.098	3.391	Up
1.05E+08	LOC105373283		2.038	2.505	Up
6451	SH3BGRL	SH3 domain binding glutamate rich protein like	1.376	8.557	Up
7552	ZNF711	zinc finger protein 711	1.469	1.583	Up

4675	NAP1L3	nucleosome assembly protein 1 like 3	0.838	4.703	Up
7105	TSPAN6	tetraspanin 6	1.052	3.046	Up
392509	ARL13A	ADP ribosylation factor like GTPase 13A	2.94	1.641	Up
79979	TRMT2B	tRNA methyltransferase 2 homolog B	0.539	1.616	Up
695	BTK	Bruton tyrosine kinase	2.517	4.162	Up
9823	ARMCX2	armadillo repeat containing X-linked 2	0.57	1.468	Up
84460	ZMAT1	zinc finger matrin-type 1	2.081	5.955	Up
9737	GPRASP1	G protein-coupled receptor associated sorting protein 1	1.414	5.12	Up
114928	GPRASP2	G protein-coupled receptor associated sorting protein 2	1.382	4.731	Up
56271	BEX4	brain expressed X-linked 4	1.017	5.14	Up
90843	TCEAL8	transcription elongation factor A like 8	1.251	4.127	Up
84707	BEX2	brain expressed X-linked 2	0.501	1.464	Up
51186	TCEAL9	transcription elongation factor A like 9	1.121	1.359	Up
27018	BEX3	brain expressed X-linked 3	2.043	14.977	Up
9338	TCEAL1	transcription elongation factor A like 1	0.756	1.763	Up
401612	SLC25A53	solute carrier family 25 member 53	2.659	7.546	Up
644353	ZCCHC18	zinc finger CCHC-type containing 18	1.907	5.907	Up
286437	LOC286437	uncharacterized LOC286437	1.19	1.783	Up
139231	FAM199X	family with sequence similarity 199, X-linked	0.883	3.814	Up
79710	MORC4	MORC family CW-type zinc finger 4	1.29	7.89	Up
54830	NUP62CL	nucleoporin 62 C-terminal like	2.124	1.947	Up
84443	FRMPD3	FERM and PDZ domain containing 3	4.193	3.11	Up
1831	TSC22D3	TSC22 domain family member 3	3.616	38.153	Up
11043	MID2	midline 2	0.722	4.7	Up
340547	VSIG1	V-set and immunoglobulin domain containing 1	4.968	56.653	Up
84187	TMEM164	transmembrane protein 164	0.459	1.308	Up
5063	PAK3	p21 (RAC1) activated kinase 3	0.701	1.602	Up
154796	AMOT	angiomotin	1.779	3.905	Up
54521	WDR44	WD repeat domain 44	0.523	2.557	Up
139818	DOCK11	dedicator of cytokinesis 11	1.235	8.923	Up
3597	IL13RA1	interleukin 13 receptor subunit alpha 1	2.023	3.008	Up
79836	LONRF3	LON peptidase N-terminal domain and ring finger 3	0.722	3.722	Up
23157	SEPTIN6	septin 6	0.676	3.479	Up
347454	SOWAHD	sosondowah ankyrin repeat domain family member D	4.615	8.245	Up
7737	RNF113A	ring finger protein 113A	0.59	2.637	Up
10009	ZBTB33	zinc finger and BTB domain containing 33	0.753	3.589	Up
55026	TMEM255A	transmembrane protein 255A	1.557	1.875	Up
8450	CUL4B	cullin 4B	1.286	9.016	Up
10178	TENM1	teneurin transmembrane protein 1	2.734	3.484	Up
54440	SASH3	SAM and SH3 domain containing 3	0.548	1.305	Up
55796	MBNL3	muscleblind like splicing regulator 3	1.589	6.239	Up
2239	GPC4	glypican 4	2.819	2.738	Up
7626	ZNF75D	zinc finger protein 75D	1.278	5.422	Up
203523	ZNF449	zinc finger protein 449	1.521	13.999	Up
399668	SMIM10L2A	small integral membrane protein 10 like 2A	1.805	3.079	Up
203522	INTS6L	integrator complex subunit 6 like	0.346	2.08	Up
10479	SLC9A6	solute carrier family 9 member A6	0.779	3.029	Up
2273	FHL1	four and a half LIM domains 1	0.485	1.753	Up
9459	ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor 6	0.894	4.364	Up
2332	FMR1	fragile X messenger ribonucleoprotein 1	0.579	2.369	Up
3423	IDS	iduronate 2-sulfatase	0.459	2.178	Up

1E+08	HSFX2	heat shock transcription factor family, X-linked 2	2.445	2.148	Up
84548	TMEM185A	transmembrane protein 185A	0.786	4.416	Up
1.01E+08	HSFX1	heat shock transcription factor family, X-linked 1	2.481	2.302	Up
7739	ZNF185	zinc finger protein 185 with LIM domain	2.146	12.188	Up
11219	TREX2	three prime repair exonuclease 2	1.62	2.625	Up
1.05E+08	LOC105373383	uncharacterized LOC105373383	1.636	1.334	Up
57595	PDZD4	PDZ domain containing 4	0.576	1.365	Up
3897	L1CAM	L1 cell adhesion molecule	1.24	1.788	Up
1.01E+08	HCFC1-AS1	HCFC1 antisense RNA 1	3.693	2.615	Up
8269	TMEM187	transmembrane protein 187	1.619	11.043	Up
4204	MECP2	methyl-CpG binding protein 2	0.928	4.615	Up
8277	TKTL1	transketolase like 1	5.034	10.012	Up
6901	TAFAZZIN	tafazzin, phospholipid-lysophospholipid transacylase	0.351	2.201	Up
139716	GAB3	GRB2 associated binding protein 3	0.737	3.073	Up
4354	MPP1	MAGUK p55 scaffold protein 1	0.721	2.851	Up
1E+08	CMC4	C-X9-C motif containing 4	1.086	4.635	Up
4515	MTCP1	mature T cell proliferation 1	0.925	4.243	Up
3581	IL9R	interleukin 9 receptor	2.617	17.613	Up
283788	LOC283788	FSHD region gene 1 pseudogene	1.176	1.49	Up
4558	TRNF	tRNA-Phe	1.542	1.747	Up
4549	RNR1	s-rRNA	1.385	2.1	Up
4550	RNR2	l-rRNA	1.281	1.584	Up
4553	TRNA	tRNA-Ala	1.308	2.265	Up
4570	TRNN	tRNA-Asn	1.231	1.934	Up
4511	TRNC	tRNA-Cys	1.175	1.775	Up
4579	TRNY	tRNA-Tyr	1.188	1.804	Up
4568	TRNL2	tRNA-Leu	1.254	1.726	Up
4519	CYTB	cytochrome b	1.244	1.509	Up
4571	TRNP	tRNA-Pro	1.808	3.462	Up

Table s2: Control vs TB_PE

GeneID	Symbol	Description	log2(fold change)	#NAME?	Set
2268	FGR	FGR proto-oncogene, Src family tyrosine kinase	-1.95	1.408	Down
85028	SNHG12	small nucleolar RNA host gene 12	-1.241	1.744	Down
115273	RAB42	RAB42, member RAS oncogene family	-4.477	2.94	Down
90853	SPOCD1	SPOC domain containing 1	-3.93	1.919	Down
1296	COL8A2	collagen type VIII alpha 2 chain	-3.164	1.962	Down
8761	PABPC4	poly(A) binding protein cytoplasmic 4	-0.721	1.67	Down
1.02E+08	PABPC4-AS1	PABPC4 antisense RNA 1	-0.708	1.348	Down
1298	COL9A2	collagen type IX alpha 2 chain	-1.426	1.604	Down
64744	SMAP2	small ArfGAP2	-1.317	26.144	Down
8613	PLPP3	phospholipid phosphatase 3	-6.405	6.881	Down
3725	JUN	Jun proto-oncogene, AP-1 transcription factor subunit	-1.07	1.787	Down
5876	RABGGTB	Rab geranylgeranyltransferase subunit beta	-0.597	2.85	Down
1486	CTBS	chitobiase	-0.496	2.139	Down
6272	SORT1	sortilin 1	-1.411	1.806	Down
3310	HSPA6	heat shock protein family A (Hsp70) member 6	-1.908	1.351	Down
80896	NPL	N-acetylneuraminate pyruvate lyase	-0.908	1.419	Down
375061	FAM89A	family with sequence similarity 89 member A	-1.197	7.707	Down
1E+08	MIR1182	microRNA 1182	-1.195	1.405	Down
57568	SIPA1L2	signal induced proliferation associated 1 like 2	-1.232	3.344	Down
8462	KLF11	KLF transcription factor 11	-0.808	3.193	Down
4953	ODC1	ornithine decarboxylase 1	-0.934	1.941	Down
2498	FTH1P3	ferritin heavy chain 1 pseudogene 3	-0.92	1.548	Down
151056	PLB1	phospholipase B1	-1.986	3.004	Down
119	ADD2	adducin 2	-1.56	1.899	Down
26056	RAB11FIP5	RAB11 family interacting protein 5	-0.524	2.038	Down

284996	RNF149	ring finger protein 149	-0.895	5.331	Down
8809	IL18R1	interleukin 18 receptor 1	-1.033	2.962	Down
1.12E+08	LOC112268426		-1.372	3.718	Down
7852	CXCR4	C-X-C motif chemokine receptor 4	-1.382	4.419	Down
5163	PDK1	pyruvate dehydrogenase kinase 1	-0.675	1.746	Down
4430	MYO1B	myosin IB	-2.348	2.79	Down
57695	USP37	ubiquitin specific peptidase 37	-0.416	2.962	Down
112616	CMTM7	CKLF like MARVEL transmembrane domain containing 7	-0.674	1.798	Down
1230	CCR1	C-C motif chemokine receptor 1	-1.5	1.376	Down
788	SLC25A20	solute carrier family 25 member 20	-0.925	5.8	Down
4286	MITF	melanocyte inducing transcription factor	-2.457	2.257	Down
3693	ITGB5	integrin subunit beta 5	-1.605	1.771	Down
22808	MRAS	muscle RAS oncogene homolog	-1.892	1.746	Down
84002	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	-1.858	2.698	Down
604	BCL6	BCL6 transcription repressor	-1.032	5.131	Down
1.01E+08	TM4SF19-AS1	TM4SF19 antisense RNA 1	-2.783	1.487	Down
116211	TM4SF19	transmembrane 4 L six family member 19	-4.168	3.071	Down
54436	SH3TC1	SH3 domain and tetratricopeptide repeats 1	-1.207	4.093	Down
6374	CXCL5	C-X-C motif chemokine ligand 5	-2.817	1.979	Down
374	AREG	amphiregulin	-2.343	1.408	Down
246175	CNOT6L	CCR4-NOT transcription complex subunit 6 like	-0.837	2.633	Down
65008	MRPL1	mitochondrial ribosomal protein L1	-0.737	1.67	Down
133308	SLC9B2	solute carrier family 9 member B2	-0.616	2.241	Down
7222	TRPC3	transient receptor potential cation channel subfamily C member 3	-2.627	1.645	Down
1.01E+08	IL21-AS1	IL21 antisense RNA 1	-2.397	1.608	Down
8819	SAP30	Sin3A associated protein 30	-0.705	1.308	Down
2180	ACSL1	acyl-CoA synthetase long chain family member 1	-0.923	1.384	Down
1601	DAB2	DAB adaptor protein 2	-1.722	1.448	Down

2150	F2RL1	F2R like trypsin receptor 1	-0.88	3.02	Down
10184	LHFPL2	LHFPL tetraspan subfamily member 2	-1.913	2.302	Down
929	CD14	CD14 molecule	-1.52	1.919	Down
10007	GNPDA1	glucosamine-6-phosphate deaminase 1	-0.885	4.421	Down
1809	DPYSL3	dihydropyrimidinase like 3	-4.647	7.863	Down
2760	GM2A	ganglioside GM2 activator	-1.287	2.453	Down
84868	HAVCR2	hepatitis A virus cellular receptor 2	-0.973	1.562	Down
3702	ITK	IL2 inducible T cell kinase	-0.602	1.806	Down
1843	DUSP1	dual specificity phosphatase 1	-1.109	2.428	Down
55819	RNF130	ring finger protein 130	-1.594	10.19	Down
84830	ADTRP	androgen dependent TFPI regulating protein	-1.342	1.689	Down
1.08E+08	LOC107986566		-1.315	1.384	Down
221692	PHACTR1	phosphatase and actin regulator 1	-1.534	1.712	Down
84062	DTNBP1	dystrobrevin binding protein 1	-0.71	1.669	Down
4795	NFKBIL1	NFKB inhibitor like 1	-0.536	1.348	Down
2289	FKBP5	FKBP prolyl isomerase 5	-1.499	23.14	Down
896	CCND3	cyclin D3	-0.672	1.359	Down
7941	PLA2G7	phospholipase A2 group VII	-1.835	1.398	Down
135228	CD109	CD109 molecule	-1.721	2.865	Down
58528	RRAGD	Ras related GTP binding D	-1.013	3.835	Down
51429	SNX9	sorting nexin 9	-1.557	4.517	Down
94120	SYTL3	synaptotagmin like 3	-1.441	5.547	Down
1.01E+08	MIR3918	microRNA 3918	-1.682	4.151	Down
55274	PHF10	PHD finger protein 10	-0.375	1.775	Down
221935	SDK1	sidekick cell adhesion molecule 1	-2.727	4.522	Down
10457	GPNMB	glycoprotein nmb	-5.261	34.562	Down
1687	GSDME	gasdermin E	-2.695	1.963	Down
285958	SNHG15	small nucleolar RNA host gene 15	-1.177	4.536	Down

7378	UPP1	uridine phosphorylase 1	-1.087	3.351	Down
10320	IKZF1	IKAROS family zinc finger 1	-0.596	2.962	Down
643253	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1	-1.139	2.185	Down
5166	PDK4	pyruvate dehydrogenase kinase 4	-5.369	7.863	Down
25798	BRI3	brain protein I3	-0.55	1.305	Down
137075	CLDN23	claudin 23	-4.906	2.633	Down
79660	PPP1R3B	protein phosphatase 1 regulatory subunit 3B	-1.021	2.059	Down
252969	NEIL2	nei like DNA glycosylase 2	-0.576	1.617	Down
4481	MSR1	macrophage scavenger receptor 1	-5.377	4.674	Down
55174	INTS10	integrator complex subunit 10	-0.624	1.379	Down
4023	LPL	lipoprotein lipase	-4.232	11.174	Down
85479	DNAJC5B	DnaJ heat shock protein family (Hsp40) member C5 beta	-2.5	2.024	Down
2171	FABP5	fatty acid binding protein 5	-2.268	13.533	Down
2167	FABP4	fatty acid binding protein 4	-9.701	9.147	Down
245972	ATP6V0D2	ATPase H+ transporting V0 subunit d2	-3.281	1.672	Down
6383	SDC2	syndecan 2	-1.951	2.098	Down
7071	KLF10	KLF transcription factor 10	-0.834	2.199	Down
55074	OXR1	oxidation resistance 1	-0.439	1.63	Down
4609	MYC	MYC proto-oncogene, bHLH transcription factor	-0.762	1.397	Down
6505	SLC1A1	solute carrier family 1 member 1	-2.223	2.769	Down
123	PLIN2	perilipin 2	-1.136	5.331	Down
318	NUDT2	nudix hydrolase 2	-0.742	1.404	Down
26267	FBXO10	F-box protein 10	-1.261	1.689	Down
687	KLF9	KLF transcription factor 9	-0.895	4.03	Down
1514	CTSL	cathepsin L	-2.111	4.733	Down
1E+08	LINC00092	long intergenic non-protein coding RNA 92	-2.804	2.123	Down
19	ABCA1	ATP binding cassette subfamily A member 1	-3.276	3.396	Down
7099	TLR4	toll like receptor 4	-2.258	2.924	Down

92399	MRRF	mitochondrial ribosome recycling factor	-0.441	1.878	Down
23413	NCS1	neuronal calcium sensor 1	-1.837	1.621	Down
57713	SFMBT2	Scm like with four mbt domains 2	-1.182	1.87	Down
84159	ARID5B	AT-rich interaction domain 5B	-1.376	2.237	Down
64106	NPFFR1	neuropeptide FF receptor 1	-3.511	1.329	Down
54541	DDIT4	DNA damage inducible transcript 4	-2.406	12.75	Down
84293	PRXL2A	peroxiredoxin like 2A	-0.829	1.907	Down
7479	WNT8B	Wnt family member 8B	-2.933	1.652	Down
5662	PSD	pleckstrin and Sec7 domain containing	-1.138	1.506	Down
51363	CHST15	carbohydrate sulfotransferase 15	-2.198	1.396	Down
1509	CTSD	cathepsin D	-0.695	1.878	Down
51338	MS4A4A	membrane spanning 4-domains A4A	-5.515	1.744	Down
7439	BEST1	bestrophin 1	-0.979	1.389	Down
6094	ROM1	retinal outer segment membrane protein 1	-1.542	2.191	Down
23642	SNHG1	small nucleolar RNA host gene 1	-0.939	1.33	Down
7423	VEGFB	vascular endothelial growth factor B	-0.616	1.405	Down
1374	CPT1A	carnitine palmitoyltransferase 1A	-2.279	2.679	Down
11309	SLCO2B1	solute carrier organic anion transporter family member 2B1	-1.979	2.013	Down
65084	TMEM135	transmembrane protein 135	-0.788	5.549	Down
7704	ZBTB16	zinc finger and BTB domain containing 16	-1.799	3.753	Down
84959	UBASH3B	ubiquitin associated and SH3 domain containing B	-1.438	2.645	Down
4013	VWA5A	von Willebrand factor A domain containing 5A	-0.88	3.224	Down
928	CD9	CD9 molecule	-1.729	17.398	Down
10162	LPCAT3	lysophosphatidylcholine acyltransferase 3	-0.893	3.198	Down
2012	EMP1	epithelial membrane protein 1	-2.338	4.321	Down
4327	MMP19	matrix metallopeptidase 19	-1.712	1.974	Down
1649	DDIT3	DNA damage inducible transcript 3	-1.326	4.249	Down
11213	IRAK3	interleukin 1 receptor associated kinase 3	-1.656	2.937	Down

64786	TBC1D15	TBC1 domain family member 15	-0.683	2.815	Down
10993	SDS	serine dehydratase	-3.449	3.126	Down
113675	SDSL	serine dehydratase like	-2.39	1.633	Down
2321	FLT1	fms related receptor tyrosine kinase 1	-0.996	2.134	Down
4008	LMO7	LIM domain 7	-0.982	2.117	Down
115207	KCTD12	potassium channel tetramerization domain containing 12	-0.711	2.184	Down
1.08E+08	LOC107984558		-4.695	1.482	Down
55647	RAB20	RAB20, member RAS oncogene family	-1.315	2.962	Down
6035	RNASE1	ribonuclease A family member 1, pancreatic	-4.445	10.712	Down
1.01E+08	SRP54-AS1	SRP54 antisense RNA 1	-1.212	2.184	Down
57161	PELI2	pellino E3 ubiquitin protein ligase family member 2	-0.781	1.336	Down
3091	HIF1A	hypoxia inducible factor 1 subunit alpha	-0.753	1.629	Down
1.01E+08	HIF1A-AS2	HIF1A antisense RNA 2	-0.694	1.419	Down
1.08E+08	LOC107984698		-3.079	5.238	Down
1.05E+08	LINC02320	long intergenic non-protein coding RNA 2320	-2.895	4.393	Down
145200	LINC00239	long intergenic non-protein coding RNA 239	-1.962	7.043	Down
5527	PPP2R5C	protein phosphatase 2 regulatory subunit B'gamma	-0.517	1.524	Down
1.08E+08	LOC107984658	uncharacterized LOC107984658	-1.481	11.419	Down
1.08E+08	LOC107984659		-0.566	1.331	Down
26585	GREM1	gremlin 1, DAN family BMP antagonist	-4.608	5.355	Down
1.01E+08	INAFM2	InaF motif containing 2	-0.715	1.747	Down
8854	ALDH1A2	aldehyde dehydrogenase 1 family member A2	-6.409	2.982	Down
771	CA12	carbonic anhydrase 12	-4.612	1.655	Down
64784	CRTC3	CREB regulated transcription coactivator 3	-0.654	2.539	Down
5045	FURIN	furin, paired basic amino acid cleaving enzyme	-0.866	1.604	Down
7023	TFAP4	transcription factor AP-4	-0.59	1.645	Down
79724	ZNF768	zinc finger protein 768	-0.87	1.777	Down
80270	HSD3B7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	-2.999	3.292	Down

1066	CES1	carboxylesterase 1	-1.583	1.467	Down
3801	KIFC3	kinesin family member C3	-1.917	1.879	Down
84937	ZNRF1	zinc and ring finger 1	-2.08	4.175	Down
3682	ITGAE	integrin subunit alpha E	-0.67	1.408	Down
84254	CAMKK1	calcium/calmodulin dependent protein kinase kinase 1	-1.296	2.113	Down
37	ACADVL	acyl-CoA dehydrogenase very long chain	-0.873	3.811	Down
968	CD68	CD68 molecule	-2.51	4.675	Down
85464	SSH2	slingshot protein phosphatase 2	-0.991	3.385	Down
6347	CCL2	C-C motif chemokine ligand 2	-5.008	15.795	Down
54475	NLE1	notchless homolog 1	-0.493	1.455	Down
1.03E+08	TBC1D3E	TBC1 domain family member 3E	-0.652	1.398	Down
9572	NR1D1	nuclear receptor subfamily 1 group D member 1	-0.789	2.051	Down
6774	STAT3	signal transducer and activator of transcription 3	-0.755	2.302	Down
3690	ITGB3	integrin subunit beta 3	-2.278	1.968	Down
124599	CD300LB	CD300 molecule like family member b	-3.529	2.217	Down
15	AANAT	aralkylamine N-acetyltransferase	-2.285	1.33	Down
9021	SOCS3	suppressor of cytokine signaling 3	-2.133	2.832	Down
4097	MAFG	MAF bZIP transcription factor G	-0.686	1.755	Down
924	CD7	CD7 molecule	-1.111	3.608	Down
284207	METRNL	meteorin like, glial cell differentiation regulator	-0.923	1.488	Down
6875	TAF4B	TATA-box binding protein associated factor 4b	-1.619	4.442	Down
284266	SIGLEC15	sialic acid binding Ig like lectin 15	-2.647	1.358	Down
10449	ACAA2	acetyl-CoA acyltransferase 2	-0.725	7.922	Down
91300	R3HDM4	R3H domain containing 4	-0.674	2.224	Down
22904	SBNO2	strawberry notch homolog 2	-1.425	1.968	Down
90007	MIDN	midnolin	-0.891	3.25	Down
84699	CREB3L3	cAMP responsive element binding protein 3 like 3	-4.674	1.361	Down
718	C3	complement C3	-2.085	1.538	Down

199675	MCEMP1	mast cell expressed membrane protein 1	-4.579	4.956	Down
3718	JAK3	Janus kinase 3	-0.846	1.426	Down
9518	GDF15	growth differentiation factor 15	-5.536	1.974	Down
126364	LRRC25	leucine rich repeat containing 25	-3.845	8.711	Down
148113	CILP2	cartilage intermediate layer protein 2	-1.926	3.315	Down
80714	PBX4	PBX homeobox 4	-1.575	1.765	Down
9170	LPAR2	lysophosphatidic acid receptor 2	-0.6	3.024	Down
53822	FXYD7	FXYD domain containing ion transport regulator 7	-0.801	1.488	Down
51599	LSR	lipolysis stimulated lipoprotein receptor	-0.541	1.522	Down
7538	ZFP36	ZFP36 ring finger protein	-0.85	3.099	Down
64857	PLEKHG2	pleckstrin homology and RhoGEF domain containing G2	-1.167	1.765	Down
728	C5AR1	complement C5a receptor 1	-2.817	4.904	Down
388567	ZNF749	zinc finger protein 749	-0.519	1.559	Down
54498	SMOX	spermine oxidase	-1.396	2.044	Down
149837	LINC00654	long intergenic non-protein coding RNA 654	-1.359	1.968	Down
7056	THBD	thrombomodulin	-2.724	6.247	Down
9935	MAFB	MAF bZIP transcription factor B	-3.189	17.411	Down
1.02E+08	CEBPB-AS1	CEBPB antisense RNA 1	-1.298	5.032	Down
1051	CEBPB	CCAAT enhancer binding protein beta	-1.416	11.661	Down
1.01E+08	PELATON	plaque enriched lncRNA in atherosclerotic and inflammatory bowel macrophage regulation	-4.02	7.21	Down
28231	SLCO4A1	solute carrier organic anion transporter family member 4A1	-1.447	5.118	Down
1E+08	SLCO4A1-AS1	SLCO4A1 antisense RNA 1	-1.547	2.94	Down
59271	EVA1C	eva-1 homolog C	-0.715	1.461	Down
3753	KCNE1	potassium voltage-gated channel subfamily E regulatory subunit 1	-4.959	1.588	Down
11200	CHEK2	checkpoint kinase 2	-0.845	2.32	Down
113791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	-0.733	1.771	Down
23761	PISD	phosphatidylserine decarboxylase	-0.421	1.388	Down
79019	CENPM	centromere protein M	-0.989	2.299	Down

3563	IL3RA	interleukin 3 receptor subunit alpha	-1.524	2.226	Down
158584	FAAH2	fatty acid amide hydrolase 2	-0.892	3.429	Down
1831	TSC22D3	TSC22 domain family member 3	-1.838	8.334	Down
2239	GPC4	glypican 4	-2.391	1.419	Down
5973	RENBP	renin binding protein	-0.863	2.257	Down
259283	MDS2	myelodysplastic syndrome 2 translocation associated	1.258	1.415	Up
65108	MARCKSL1	MARCKS like 1	1.301	3.228	Up
1718	DHCR24	24-dehydrocholesterol reductase	1.19	3.608	Up
26289	AK5	adenylate kinase 5	1.619	1.929	Up
2633	GBP1	guanylate binding protein 1	2.116	3.802	Up
115361	GBP4	guanylate binding protein 4	2.219	16.83	Up
115362	GBP5	guanylate binding protein 5	2.144	3.881	Up
400759	GBP1P1	guanylate binding protein 1 pseudogene 1	2.215	2.442	Up
9398	CD101	CD101 molecule	1.093	1.562	Up
8416	ANXA9	annexin A9	0.942	1.544	Up
55793	MINDY1	MINDY lysine 48 deubiquitinase 1	0.872	1.623	Up
79626	TNFAIP8L2	TNF alpha induced protein 8 like 2	0.984	2.696	Up
1.02E+08	LOC101928034	uncharacterized LOC101928034	1.079	1.919	Up
51043	ZBTB7B	zinc finger and BTB domain containing 7B	0.514	1.376	Up
910	CD1B	CD1b molecule	6.773	4.151	Up
911	CD1C	CD1c molecule	5.731	4.442	Up
913	CD1E	CD1e molecule	4.82	4.681	Up
2205	FCER1A	Fc epsilon receptor Ia	1.953	2.429	Up
6504	SLAMF1	signaling lymphocytic activation molecule family member 1	0.745	1.73	Up
356	FASLG	Fas ligand	1.209	2.08	Up
26092	TOR1AIP1	torsin 1A interacting protein 1	0.433	1.604	Up
8707	B3GALT2	beta-1,3-galactosyltransferase 2	1.196	2.477	Up
9911	TMCC2	transmembrane and coiled-coil domain family 2	1.447	1.522	Up
9641	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon	1.014	2.679	Up
80342	TRAF3IP3	TRAF3 interacting protein 3	0.777	2.664	Up
9926	LPGAT1	lysophosphatidylglycerol acyltransferase 1	0.617	2.122	Up
1.01E+08	LINC01132	long intergenic non-protein coding RNA 1132	4.368	1.389	Up
6654	SOS1	SOS Ras/Rac guanine nucleotide exchange factor 1	0.882	1.376	Up
165530	CLEC4F	C-type lectin domain family 4 member F	6.195	1.311	Up
5899	RALB	RAS like proto-oncogene B	0.795	3.58	Up
90	ACVR1	activin A receptor type 1	0.66	1.862	Up
64135	IFIH1	interferon induced with helicase C domain 1	1.017	3.292	Up
375298	CERKL	ceramide kinase like	0.956	1.333	Up
3628	INPP1	inositol polyphosphate-1-phosphatase	1.159	1.919	Up
6772	STAT1	signal transducer and activator of transcription 1	1.954	8.846	Up
22807	IKZF2	IKAROS family zinc finger 2	0.82	1.588	Up
80326	WNT10A	Wnt family member 10A	1.291	2.072	Up
5707	PSMD1	proteasome 26S subunit, non-ATPase 1	0.336	1.325	Up

317649	EIF4E3	eukaryotic translation initiation factor 4E family member 3	0.772	1.806	Up
56650	CLDND1	claudin domain containing 1	0.724	1.349	Up
2838	GPR15	G protein-coupled receptor 15	1.631	3.824	Up
961	CD47	CD47 molecule	0.495	1.629	Up
1.02E+08	LINC01215	long intergenic non-protein coding RNA 1215	0.977	1.643	Up
56925	LXN	latexin	0.817	1.535	Up
64108	RTP4	receptor transporter protein 4	1.24	1.585	Up
8626	TP63	tumor protein p63	2.44	1.712	Up
1.05E+08	LOC105377663	uncharacterized LOC105377663	1.391	1.585	Up
166824	RASSF6	Ras association domain family member 6	1.758	1.572	Up
6373	CXCL11	C-X-C motif chemokine ligand 11	3.397	2.147	Up
55752	SEPTIN11	septin 11	0.506	1.469	Up
10855	HPSE	heparanase	0.593	4.266	Up
1519	CTSO	cathepsin O	0.854	1.381	Up
7098	TLR3	toll like receptor 3	2.7	3.645	Up
23037	PDZD2	PDZ domain containing 2	1.787	1.561	Up
112574	SNX18	sorting nexin 18	0.526	1.585	Up
3001	GZMA	granzyme A	1.514	1.38	Up
25816	TNFAIP8	TNF alpha induced protein 8	0.547	1.374	Up
115123	MARCHF3	membrane associated ring-CH-type finger 3	1.385	1.608	Up
3562	IL3	interleukin 3	2.857	1.419	Up
3659	IRF1	interferon regulatory factor 1	1.573	3.762	Up
140947	DCANP1	dendritic cell associated nuclear protein 1	2.398	1.696	Up
497189	TIFAB	TIFA inhibitor	2.353	2.229	Up
26249	KLHL3	kelch like family member 3	1.278	3.071	Up
309	ANXA6	annexin A6	1.036	4.151	Up
1871	E2F3	E2F transcription factor 3	1.105	4.018	Up
9750	RIPOR2	RHO family interacting cell polarization regulator 2	0.682	1.741	Up
4050	LTB	lymphotoxin beta	1.186	4.442	Up
259197	NCR3	natural cytotoxicity triggering receptor 3	2.236	2.122	Up
6891	TAP2	transporter 2, ATP binding cassette subfamily B member	0.582	1.419	Up
6890	TAP1	transporter 1, ATP binding cassette subfamily B member	0.907	1.968	Up
5698	PSMB9	proteasome 20S subunit beta 9	0.794	2.308	Up
51513	ETV7	ETS variant transcription factor 7	1.681	1.67	Up
53405	CLIC5	chloride intracellular channel 5	1.061	1.541	Up
23607	CD2AP	CD2 associated protein	0.496	1.572	Up
116843	SLC18B1	solute carrier family 18 member B1	0.775	1.311	Up
401289	LINC01624	long intergenic non-protein coding RNA 1624	1.694	1.795	Up
56913	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1	0.704	1.437	Up
83605	CCM2	CCM2 scaffold protein	0.651	4.393	Up
219285	SAMD9L	sterile alpha motif domain containing 9 like	1.708	1.61	Up
81628	TSC22D4	TSC22 domain family member 4	0.458	1.36	Up
3268	AGFG2	ArfGAP with FG repeats 2	0.568	1.461	Up
4897	NRCAM	neuronal cell adhesion molecule	1.87	1.379	Up
54674	LRRN3	leucine rich repeat neuronal 3	3.072	1.388	Up
28596	TRBV7-2	T cell receptor beta variable 7-2	0.647	2.293	Up
1.08E+08	LOC107986855	uncharacterized LOC107986855	1.016	2.442	Up

28611	TRBV5-4	T cell receptor beta variable 5-4	0.877	3.202	Up
28560	TRBV27	T cell receptor beta variable 27	1.029	1.545	Up
2041	EPHA1	EPH receptor A1	0.77	1.59	Up
9046	DOK2	docking protein 2	0.731	3.315	Up
2039	DMTN	dematin actin binding protein	1.06	3.202	Up
64236	PDLIM2	PDZ and LIM domain 2	0.788	4.721	Up
1191	CLU	clusterin	1.281	3.441	Up
9788	MTSS1	MTSS I-BAR domain containing 1	0.778	2.586	Up
3301	DNAJA1	DnaJ heat shock protein family (Hsp40) member A1	0.725	2.438	Up
55014	STX17	syntaxin 17	0.516	1.862	Up
5998	RGS3	regulator of G protein signaling 3	0.906	1.839	Up
9397	NMT2	N-myristoyltransferase 2	0.519	1.919	Up
221061	FAM171A1	family with sequence similarity 171 member A1	1.103	5.189	Up
7414	VCL	vinculin	0.758	1.576	Up
101	ADAM8	ADAM metallopeptidase domain 8	0.689	1.483	Up
1.02E+08	MIR7847	microRNA 7847	0.593	1.312	Up
6737	TRIM21	tripartite motif containing 21	0.911	1.548	Up
10418	SPON1	spondin 1	0.942	5.921	Up
55293	UEVLD	UEV and lactate/malate dehyrogenase domains	0.87	2.918	Up
3732	CD82	CD82 molecule	1.44	7.958	Up
9246	UBE2L6	ubiquitin conjugating enzyme E2 L6	0.953	1.941	Up
823	CAPN1	calpain 1	0.364	3.099	Up
1521	CTSW	cathepsin W	0.873	2.683	Up
408	ARRB1	arrestin beta 1	0.646	1.709	Up
27314	RAB30	RAB30, member RAS oncogene family	0.73	2.438	Up
330	BIRC3	baculoviral IAP repeat containing 3	1.012	2.445	Up
4863	NPAT	nuclear protein, coactivator of histone transcription	0.46	1.679	Up
56253	CRTAM	cytotoxic and regulatory T cell molecule	1.278	1.666	Up
219844	HYLS1	HYLS1 centriolar and ciliogenesis associated	0.755	1.981	Up
1.01E+08	KLRC4-KLRK1	KLRC4-KLRK1 readthrough	0.815	1.899	Up
22914	KLRK1	killer cell lectin like receptor K1	0.869	1.645	Up
225	ABCD2	ATP binding cassette subfamily D member 2	1.034	1.389	Up
4753	NELL2	neural EGFL like 2	0.991	2.19	Up
27289	RND1	Rho family GTPase 1	1.36	1.378	Up
85478	CCDC65	coiled-coil domain containing 65	1.077	2.19	Up
283337	ZNF740	zinc finger protein 740	0.397	1.379	Up
3695	ITGB7	integrin subunit beta 7	1.183	6.24	Up
5916	RARG	retinoic acid receptor gamma	0.716	2.079	Up
23344	ESYT1	extended synaptotagmin 1	0.795	2.335	Up
51561	IL23A	interleukin 23 subunit alpha	1.049	3.16	Up
55801	IL26	interleukin 26	2.99	1.359	Up
2254	FGF9	fibroblast growth factor 9	1.118	1.305	Up
94240	EPSTI1	epithelial stromal interaction 1	1.637	1.393	Up
10257	ABCC4	ATP binding cassette subfamily C member 4	0.553	2.651	Up
28693	TRAV1-1	T cell receptor alpha variable 1-1	0.989	1.478	Up
28690	TRAV3	T cell receptor alpha variable 3	1.141	4.249	Up
28688	TRAV5	T cell receptor alpha variable 5	1.046	2.373	Up
28671	TRAV13-1	T cell receptor alpha variable 13-1	0.841	1.61	Up
28673	TRAV12-2	T cell receptor alpha variable 12-2	0.939	1.815	Up

28682	TRAV8-4	T cell receptor alpha variable 8-4	0.836	2.122	Up
28670	TRAV13-2	T cell receptor alpha variable 13-2	0.937	1.4	Up
28677	TRAV9-2	T cell receptor alpha variable 9-2	0.987	2.079	Up
28672	TRAV12-3	T cell receptor alpha variable 12-3	0.972	3.734	Up
28666	TRAV17	T cell receptor alpha variable 17	0.965	5.02	Up
28664	TRAV19	T cell receptor alpha variable 19	0.832	2.339	Up
28659	TRAV24	T cell receptor alpha variable 24	1.337	3.219	Up
28653	TRAV29DV5	T cell receptor alpha variable 29/delta variable 5	0.88	2.109	Up
28644	TRAV38-1	T cell receptor alpha variable 38-1	1.041	2.651	Up
28642	TRAV39	T cell receptor alpha variable 39	0.932	1.389	Up
28526	TRDC	T cell receptor delta constant	0.855	1.941	Up
28712	TRAJ43	T cell receptor alpha joining 43	1.393	1.318	Up
28716	TRAJ39	T cell receptor alpha joining 39	1.125	1.677	Up
28732	TRAJ23	T cell receptor alpha joining 23	1.256	1.356	Up
28755	TRAC	T cell receptor alpha constant	0.827	1.988	Up
55072	RNF31	ring finger protein 31	0.283	1.333	Up
23034	SAMD4A	sterile alpha motif domain containing 4A	1.492	2.329	Up
81537	SGPP1	sphingosine-1-phosphate phosphatase 1	0.506	1.913	Up
9517	SPTLC2	serine palmitoyltransferase long chain base subunit 2	0.601	1.439	Up
8111	GPR68	G protein-coupled receptor 68	1.292	3.362	Up
51676	ASB2	ankyrin repeat and SOCS box containing 2	1.781	5.02	Up
1.05E+08	LINC02295	long intergenic non-protein coding RNA 2295	1.31	1.61	Up
1.03E+08	LOC102724760	immunoglobulin heavy variable 1/OR15-1 pseudogene	1.726	2.163	Up
388077	IGHV1OR15-1	immunoglobulin heavy variable 1/OR15-1 (non-functional)	1.751	2.242	Up
1E+08	LOC100419583	ring finger protein 4 pseudogene	0.663	1.816	Up
3603	IL16	interleukin 16	0.658	1.371	Up
1.08E+08	LOC107984898		1.498	5.751	Up
1.08E+08	CORO1A-AS1	CORO1A antisense RNA 1	0.688	2.199	Up
3683	ITGAL	integrin subunit alpha L	1.021	3.851	Up
2521	FUS	FUS RNA binding protein	0.667	2.036	Up
124460	SNX20	sorting nexin 20	0.55	1.34	Up
57687	VAT1L	vesicle amine transport 1 like	3.182	2.131	Up
359845	RFLNB	refilin B	0.996	4.973	Up
489	ATP2A3	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 3	0.534	1.516	Up
124944	C17orf49	chromosome 17 open reading frame 49	0.96	1.919	Up
1.01E+08	MIR497HG	mir-497-195 cluster host gene	1.026	2.391	Up
7756	ZNF207	zinc finger protein 207	0.527	2.147	Up
57125	PLXDC1	plexin domain containing 1	1.604	1.784	Up
5164	PDK2	pyruvate dehydrogenase kinase 2	0.53	1.361	Up
1534	CYB561	cytochrome b561	0.586	1.683	Up
8313	AXIN2	axin 2	0.571	4.393	Up
1.05E+08	LOC105371870	uncharacterized LOC105371870	1.078	1.376	Up
326624	RAB37	RAB37, member RAS oncogene family	1.603	4.249	Up
3959	LGALS3BP	galectin 3 binding protein	1.038	7.316	Up

10045	SH2D3A	SH2 domain containing 3A	0.504	1.63	Up
4670	HNRNPM	heterogeneous nuclear ribonucleoprotein M	0.495	1.645	Up
4784	NFIX	nuclear factor I X	1.271	3.763	Up
9466	IL27RA	interleukin 27 receptor subunit alpha	0.54	1.506	Up
1.05E+08	BISPR	BST2 interferon stimulated positive regulator	0.876	1.712	Up
3594	IL12RB1	interleukin 12 receptor subunit beta 1	1.002	4.329	Up
79713	IGFLR1	IGF like family receptor 1	0.66	1.351	Up
8857	FCGBP	Fc gamma binding protein	2.112	3.613	Up
1.08E+08	LOC107987267		3.501	1.88	Up
55423	SIRPG	signal regulatory protein gamma	1.067	1.755	Up
25939	SAMHD1	SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase 1	0.516	1.745	Up
53347	UBASH3A	ubiquitin associated and SH3 domain containing A	0.595	1.785	Up
1.01E+08	ITGB2-AS1	ITGB2 antisense RNA 1	1.092	1.59	Up
11274	USP18	ubiquitin specific peptidase 18	1.444	1.361	Up
373856	USP41	ubiquitin specific peptidase 41	1.861	1.367	Up
84861	KLHL22	kelch like family member 22	0.727	1.797	Up
1.02E+08	SPECC1L-ADORA2A	SPECC1L-ADORA2A readthrough (NMD candidate)	0.348	1.358	Up
2130	EWSR1	EWS RNA binding protein 1	0.419	2.212	Up
80830	APOL6	apolipoprotein L6	0.976	2.226	Up
80833	APOL3	apolipoprotein L3	1.117	8.208	Up
80832	APOL4	apolipoprotein L4	1.817	1.702	Up
9567	GTPBP1	GTP binding protein 1	0.563	5.854	Up
25777	SUN2	Sad1 and UNC84 domain containing 2	0.879	4.716	Up
27350	APOBEC3C	apolipoprotein B mRNA editing enzyme catalytic subunit 3C	0.717	2.633	Up
9402	GRAP2	GRB2 related adaptor protein 2	0.698	3.608	Up
5199	CFP	complement factor properdin	1.163	3.847	Up
1.08E+08	LOC107985690	replaced by ID 84636	1.139	2.226	Up
84636	GPR174	G protein-coupled receptor 174	1.178	2.683	Up
1E+08	LINC00892	long intergenic non-protein coding RNA 892	1.65	3.001	Up

Table s3: TB-PE vs Activated

GeneID	Symbol	Description	log2(fold change)	#NAME?	Set
148398	SAMD11	sterile alpha motif domain containing 11	-1.628	12.36	Down
26155	NOC2L	NOC2 like nucleolar associated transcriptional repressor	-1.732	21.564	Down
57801	HES4	hes family bHLH transcription factor 4	-6.294	3.676	Down
9636	ISG15	ISG15 ubiquitin like modifier	-1.734	4.484	Down
375790	AGRN	agrin	-2.192	5.709	Down
1E+08	LOC100288175	uncharacterized LOC100288175	-3.189	9.538	Down
1.05E+08	LOC105378948	uncharacterized LOC105378948	-2.108	5.236	Down
54991	C1orf159	chromosome 1 open reading frame 159	-1.012	5.731	Down
8784	TNFRSF18	TNF receptor superfamily member 18	-4.129	18.733	Down
7293	TNFRSF4	TNF receptor superfamily member 4	-5.68	9.509	Down
51150	SDF4	stromal cell derived factor 4	-0.989	6.685	Down
126792	B3GALT6	beta-1,3-galactosyltransferase 6	-0.993	2.813	Down
118424	UBE2J2	ubiquitin conjugating enzyme E2 J2	-0.436	1.951	Down
126789	PUSL1	pseudouridine synthase like 1	-0.626	2.158	Down
54973	INTS11	integrator complex subunit 11	-0.83	6.458	Down
54998	AURKAIP1	aurora kinase A interacting protein 1	-0.987	4.647	Down
55052	MRPL20	mitochondrial ribosomal protein L20	-1.212	6.763	Down
219293	ATAD3C	ATPase family AAA domain containing 3C	-1.672	10.115	Down
83858	ATAD3B	ATPase family AAA domain containing 3B	-2.319	9.053	Down
55210	ATAD3A	ATPase family AAA domain containing 3A	-2.238	17.813	Down
65220	NADK	NAD kinase	-0.591	4.649	Down
2782	GNB1	G protein subunit beta 1	-0.612	6.652	Down
339456	TMEM52	transmembrane protein 52	-3.663	4.765	Down
115110	TNFRSF14-AS1	TNFRSF14 antisense RNA 1	-0.846	4.202	Down
8764	TNFRSF14	TNF receptor superfamily member 14	-0.515	3.09	Down

127281	PRXL2B	peroxiredoxin like 2B	-0.856	5.881	Down
79258	MMEL1	membrane metalloendopeptidase like 1	-0.887	3.149	Down
11332	ACOT7	acyl-CoA thioesterase 7	-3.512	36.092	Down
55735	DNAJC11	DnaJ heat shock protein family (Hsp40) member C11	-1.09	7.586	Down
3604	TNFRSF9	TNF receptor superfamily member 9	-4.825	7.971	Down
11315	PARK7	Parkinsonism associated deglycase	-1.257	6.293	Down
54206	ERRFI1	ERBB receptor feedback inhibitor 1	-1.026	1.796	Down
2023	ENO1	enolase 1	-1.76	4.382	Down
1.02E+08	MIR6728	microRNA 6728	-1.965	2.628	Down
84275	SLC25A33	solute carrier family 25 member 33	-1.473	8.071	Down
199953	TMEM201	transmembrane protein 201	-0.634	2.121	Down
5226	PGD	phosphogluconate dehydrogenase	-0.64	1.47	Down
54897	CASZ1	castor zinc finger 1	-1.348	2.425	Down
23435	TARDBP	TAR DNA binding protein	-0.65	3.388	Down
6723	SRM	spermidine synthase	-2.094	24.273	Down
5394	EXOSC10	exosome component 10	-0.392	1.697	Down
26232	FBXO2	F-box protein 2	-1.023	1.41	Down
26270	FBXO6	F-box protein 6	-2.541	6.113	Down
10459	MAD2L2	mitotic arrest deficient 2 like 2	-1.055	6.879	Down
5351	PLOD1	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	-1.407	3.784	Down
9927	MFN2	mitofusin 2	-0.618	3.046	Down
943	TNFRSF8	TNF receptor superfamily member 8	-5.643	6.416	Down
7133	TNFRSF1B	TNF receptor superfamily member 1B	-0.819	1.308	Down
79180	EFHD2	EF-hand domain family member D2	-0.575	2.587	Down
79814	AGMAT	agmatinase	-1.117	3.218	Down
26099	SZRD1	SUZ RNA binding domain containing 1	-1.353	16.025	Down
374955	SPATA21	spermatogenesis associated 21	-1.258	13.24	Down
6390	SDHB	succinate dehydrogenase complex iron sulfur subunit B	-1.036	4.867	Down

55920	RCC2	regulator of chromosome condensation 2	-0.557	2.086	Down
23065	EMC1	ER membrane protein complex subunit 1	-0.598	1.948	Down
51154	MRTO4	MRT4 homolog, ribosome maturation factor	-1.961	11.987	Down
440574	MICOS10	mitochondrial contact site and cristae organizing system subunit 10	-0.414	1.586	Down
1650	DDOST	dolichyl-diphosphooligosaccharide--protein glycosyltransferase non-catalytic subunit	-0.508	1.54	Down
8672	EIF4G3	eukaryotic translation initiation factor 4 gamma 3	-1.198	2.345	Down
998	CDC42	cell division cycle 42	-0.65	2.311	Down
10236	HNRNPR	heterogeneous nuclear ribonucleoprotein R	-1.014	21.114	Down
6924	ELOA	elongin A	-0.662	2.724	Down
57095	PITHD1	PITH domain containing 1	-0.349	1.6	Down
1.05E+08	LOC105376860	uncharacterized LOC105376860	-1.214	8.567	Down
11313	LYPLA2	lysophospholipase 2	-1.198	9.729	Down
2582	GALE	UDP-galactose-4-epimerase	-2.352	16.218	Down
10772	SRSF10	serine and arginine rich splicing factor 10	-1.03	11.041	Down
163702	IFNLR1	interferon lambda receptor 1	-1.169	3.216	Down
25932	CLIC4	chloride intracellular channel 4	-1.323	2.221	Down
864	RUNX3	RUNX family transcription factor 3	-0.977	4.135	Down
1.05E+08	RUNX3-AS1	RUNX3 antisense RNA 1	-1.257	3.026	Down
79000	AUNIP	aurora kinase A and ninein interacting protein	-0.607	1.314	Down
51042	ZNF593	zinc finger protein 593	-2.295	18.8	Down
64793	CEP85	centrosomal protein 85	-0.555	3.285	Down
79947	DHDDS	dehydrodolichyl diphosphate synthase subunit	-0.9	11.113	Down
84243	ZDHHC18	zinc finger DHHC-type palmitoyltransferase 18	-1.001	13.297	Down
10726	NUDC	nuclear distribution C, dynein complex regulator	-1.251	19.831	Down
2537	IFI6	interferon alpha inducible protein 6	-2.221	3.702	Down
23673	STX12	syntaxin 12	-0.556	1.821	Down
2140	EYA3	EYA transcriptional coactivator and phosphatase 3	-0.562	1.774	Down
22826	DNAJC8	DnaJ heat shock protein family (Hsp40) member C8	-0.583	1.812	Down

83667	SESN2	sestrin 2	-3.068	15.657	Down
1104	RCC1	regulator of chromosome condensation 1	-0.747	4.419	Down
54952	TRNAU1AP	tRNA selenocysteine 1 associated protein 1	-1.042	5.368	Down
10691	GMEB1	glucocorticoid modulatory element binding protein 1	-0.436	1.832	Down
51441	YTHDF2	YTH N6-methyladenosine RNA binding protein 2	-0.5	2.795	Down
6429	SRSF4	serine and arginine rich splicing factor 4	-0.447	1.48	Down
51102	MECR	mitochondrial trans-2-enoyl-CoA reductase	-1.388	12.616	Down
9410	SNRNP40	small nuclear ribonucleoprotein U5 subunit 40	-0.636	2.402	Down
553115	PEF1	penta-EF-hand domain containing 1	-0.586	1.579	Down
10657	KHDRBS1	KH RNA binding domain containing, signal transduction associated 1	-0.283	1.977	Down
23633	KPNA6	karyopherin subunit alpha 6	-0.648	4.473	Down
200081	TXLNA	taxilin alpha	-1.035	4.358	Down
8668	EIF3I	eukaryotic translation initiation factor 3 subunit I	-0.869	2.301	Down
3065	HDAC1	histone deacetylase 1	-0.933	10.506	Down
5928	RBBP4	RB binding protein 4, chromatin remodeling factor	-0.504	2.512	Down
81493	SYNC	syncoilin, intermediate filament protein	-0.408	1.673	Down
8565	YARS1	tyrosyl-tRNA synthetase 1	-1.298	5.639	Down
127544	RNF19B	ring finger protein 19B	-0.654	1.515	Down
204	AK2	adenylate kinase 2	-1.397	9.836	Down
113444	SMIM12	small integral membrane protein 12	-0.912	4.593	Down
58512	DLGAP3	DLG associated protein 3	-1.227	1.773	Down
6421	SFPQ	splicing factor proline and glutamine rich	-2.057	18.971	Down
9202	ZMYM4	zinc finger MYM-type containing 4	-0.403	2.883	Down
1.01E+08	ZMYM4-AS1	ZMYM4 antisense RNA 1	-0.751	1.347	Down
23154	NCDN	neurochondrin	-0.617	2.673	Down
5690	PSMB2	proteasome 20S subunit beta 2	-1.94	32.057	Down
127703	C1orf216	chromosome 1 open reading frame 216	-1.79	17.099	Down
63967	CLSPN	claspin	-3.552	7.292	Down

83931	STK40	serine/threonine kinase 40	-1.208	6.615	Down
64960	MRPS15	mitochondrial ribosomal protein S15	-1.223	5.06	Down
80149	ZC3H12A	zinc finger CCCH-type containing 12A	-2.522	5.876	Down
29889	GNL2	G protein nucleolar 2	-1.552	19.495	Down
55143	CDCA8	cell division cycle associated 8	-0.902	3.215	Down
149175	MANEAL	mannosidase endo-alpha like	-0.7	2.236	Down
79693	YRDC	yrdC N6-threonylcarbamoyltransferase domain containing	-2.312	24.773	Down
127687	C1orf122	chromosome 1 open reading frame 122	-1.328	6.727	Down
4520	MTF1	metal regulatory transcription factor 1	-0.73	4.518	Down
10946	SF3A3	splicing factor 3a subunit 3	-0.711	3.838	Down
51118	UTP11	UTP11 small subunit processome component	-1.482	10.436	Down
1.01E+08	GJA9-MYCBP	GJA9-MYCBP readthrough	-0.736	1.853	Down
26292	MYCBP	MYC binding protein	-0.739	1.819	Down
26508	HEYL	hes related family bHLH transcription factor with YRPW motif like	-1.544	1.358	Down
84879	MFSD2A	MFSD2 lysolipid transporter A, lysophospholipid	-3.733	12.065	Down
10487	CAP1	cyclase associated actin cytoskeleton regulatory protein 1	-0.932	6.754	Down
10269	ZMPSTE24	zinc metallopeptidase STE24	-1.079	5.024	Down
1298	COL9A2	collagen type IX alpha 2 chain	-1.112	1.968	Down
64789	EXO5	exonuclease 5	-0.74	2.648	Down
9783	RIMS3	regulating synaptic membrane exocytosis 3	-0.598	2.35	Down
4802	NFYC	nuclear transcription factor Y subunit gamma	-0.421	1.639	Down
1503	CTPS1	CTP synthase 1	-2.765	26.512	Down
59269	HIVEP3	HIVEP zinc finger 3	-2.54	9.703	Down
284716	RIMKLA	ribosomal modification protein rimK like family member A	-1.816	1.737	Down
10465	PPIH	peptidylprolyl isomerase H	-1.585	11.305	Down
4904	YBX1	Y-box binding protein 1	-1.073	4.748	Down
10969	EBNA1BP2	EBNA1 binding protein 2	-2.228	22.55	Down
991	CDC20	cell division cycle 20	-3.939	20.388	Down

64834	ELOVL1	ELOVL fatty acid elongase 1	-0.844	9.07	Down
112950	MED8	mediator complex subunit 8	-0.69	3.389	Down
1.08E+08	MED8-AS1	MED8 antisense RNA 1	-0.707	1.563	Down
1802	DPH2	diphthamide biosynthesis 2	-1.569	13.529	Down
533	ATP6V0B	ATPase H+ transporting V0 subunit b	-0.923	5.677	Down
8704	B4GALT2	beta-1,4-galactosyltransferase 2	-2.596	8.15	Down
6536	SLC6A9	solute carrier family 6 member 9	-5.816	20.633	Down
79033	ERI3	ERI1 exoribonuclease family member 3	-0.744	3.787	Down
339541	ARMH1	armadillo like helical domain containing 1	-0.65	2.965	Down
1.05E+08	LOC105378690	uncharacterized LOC105378690	-1.344	1.67	Down
11004	KIF2C	kinesin family member 2C	-1.661	4.625	Down
8891	EIF2B3	eukaryotic translation initiation factor 2B subunit gamma	-2.119	26.319	Down
7389	UROD	uroporphyrinogen decarboxylase	-0.621	1.358	Down
84842	HPDL	4-hydroxyphenylpyruvate dioxygenase like	-3.47	18.309	Down
114034	TOE1	target of EGR1, exonuclease	-0.966	5.658	Down
10420	TESK2	testis associated actin remodelling kinase 2	-0.545	1.783	Down
25974	MMACHC	metabolism of cobalamin associated C	-1.853	17.107	Down
5052	PRDX1	peroxiredoxin 1	-2.01	15.037	Down
10327	AKR1A1	aldo-keto reductase family 1 member A1	-1.455	6.552	Down
4678	NASP	nuclear autoantigenic sperm protein	-0.96	9.236	Down
1.1E+08	P3R3URF-PIK3R3	P3R3URF-PIK3R3 readthrough	-1.199	1.636	Down
8503	PIK3R3	phosphoinositide-3-kinase regulatory subunit 3	-1.148	1.563	Down
55624	POMGNT1	protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)	-1.199	11.881	Down
8438	RAD54L	RAD54 like	-1.696	10.177	Down
10489	LRRC41	leucine rich repeat containing 41	-0.641	4.312	Down
387338	NSUN4	NOP2/Sun RNA methyltransferase 4	-0.759	3.659	Down
148932	MOB3C	MOB kinase activator 3C	-0.729	3.494	Down
64756	ATPAF1	ATP synthase mitochondrial F1 complex assembly factor 1	-0.509	2.198	Down

6491	STIL	STIL centriolar assembly protein	-1.418	5.628	Down
4898	NRDC	nardilysin convertase	-0.464	2.153	Down
1.05E+08	LOC105378721		-0.456	1.394	Down
4998	ORC1	origin recognition complex subunit 1	-2.738	11.955	Down
65260	COA7	cytochrome c oxidase assembly factor 7	-1.484	13.63	Down
4116	MAGOH	mago homolog, exon junction complex subunit	-1.312	14.397	Down
7804	LRP8	LDL receptor related protein 8	-1.65	5.59	Down
1.05E+08	LOC105378728	uncharacterized LOC105378728	-1.731	1.98	Down
1.05E+08	LOC105378726	uncharacterized LOC105378726	-2.642	2.422	Down
51668	HSPB11	heat shock protein family B (small) member 11	-0.559	1.638	Down
115353	LRRC42	leucine rich repeat containing 42	-1.31	16.4	Down
51253	MRPL37	mitochondrial ribosomal protein L37	-1.035	5.608	Down
1.01E+08	MROH7-TTC4	MROH7-TTC4 readthrough (NMD candidate)	-0.829	7.804	Down
7268	TTC4	tetratricopeptide repeat domain 4	-0.831	8.573	Down
1718	DHCR24	24-dehydrocholesterol reductase	-3.513	43.192	Down
1.08E+08	DHCR24-DT	DHCR24 divergent transcript	-5.155	2.53	Down
5236	PGM1	phosphoglucomutase 1	-0.537	1.721	Down
205	AK4	adenylate kinase 4	-2.092	1.721	Down
9829	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6	-0.919	3.195	Down
57708	MIER1	MIER1 transcriptional regulator	-0.724	7.996	Down
149233	IL23R	interleukin 23 receptor	-3.358	6.559	Down
3595	IL12RB2	interleukin 12 receptor subunit beta 2	-4.19	14.818	Down
1.05E+08	LOC105378779		-3.199	4.935	Down
26135	SERBP1	SERPINE1 mRNA binding protein 1	-1.124	7.664	Down
55631	LRRC40	leucine rich repeat containing 40	-0.645	2.74	Down
11147	HHLA3	HERV-H LTR-associating 3	-0.532	1.908	Down
1E+08	ZRANB2-AS1	ZRANB2 antisense RNA 1	-1.082	6.352	Down
9406	ZRANB2	zinc finger RANBP2-type containing 2	-1.067	9.653	Down

1429	CRYZ	crystallin zeta	-0.866	2.358	Down
127253	TYW3	tRNA-yW synthesizing protein 3 homolog	-0.898	5.11	Down
34	ACADM	acyl-CoA dehydrogenase medium chain	-0.627	1.739	Down
5876	RABGGTB	Rab geranylgeranyltransferase subunit beta	-0.897	9.589	Down
91624	NEXN	nexilin F-actin binding protein	-1.625	11.877	Down
8880	FUBP1	far upstream element binding protein 1	-1.625	22.818	Down
10964	IFI44L	interferon induced protein 44 like	-4.26	4.589	Down
10561	IFI44	interferon induced protein 44	-0.82	1.498	Down
80135	RPF1	ribosome production factor 1 homolog	-0.638	1.89	Down
2787	GNG5	G protein subunit gamma 5	-0.791	3.772	Down
255231	MCOLN2	mucolipin TRP cation channel 2	-1.54	6.195	Down
8915	BCL10	BCL10 immune signaling adaptor	-0.499	3.556	Down
54680	ZNHIT6	zinc finger HIT-type containing 6	-0.741	3.589	Down
8543	LMO4	LIM domain only 4	-0.915	1.732	Down
2959	GTF2B	general transcription factor IIB	-0.5	1.411	Down
494115	RBMXL1	RBMX like 1	-0.47	3.8	Down
1.05E+08	LOC105378841	uncharacterized LOC105378841	-1.291	2.692	Down
2633	GBP1	guanylate binding protein 1	-3.88	17.257	Down
2634	GBP2	guanylate binding protein 2	-1.918	13.894	Down
1.12E+08	LOC112268267	uncharacterized LOC112268267	-1.763	12.171	Down
1.05E+08	LOC105378842	uncharacterized LOC105378842	-1.933	1.446	Down
388646	GBP7	guanylate binding protein 7	-3.203	5.583	Down
115361	GBP4	guanylate binding protein 4	-3.471	45.556	Down
115362	GBP5	guanylate binding protein 5	-4.133	19.446	Down
163351	GBP6	guanylate binding protein family member 6	-6.643	24.912	Down
400759	GBP1P1	guanylate binding protein 1 pseudogene 1	-3.957	11.776	Down
23507	LRRC8B	leucine rich repeat containing 8 VRAC subunit B	-0.924	6.792	Down
646817	SETSIP	SET like protein	-0.899	4.457	Down

11146	GLMN	glomulin, FKBP associated protein	-0.974	5.313	Down
2672	GFI1	growth factor independent 1 transcriptional repressor	-1.785	6.129	Down
7813	EVI5	ecotropic viral integration site 5	-1.011	2.958	Down
54874	FNBP1L	formin binding protein 1 like	-0.935	1.873	Down
30836	DNTTIP2	deoxynucleotidyltransferase terminal interacting protein 2	-0.708	2.247	Down
2730	GCLM	glutamate-cysteine ligase modifier subunit	-1.776	30.315	Down
2152	F3	coagulation factor III, tissue factor	-3.214	1.915	Down
1266	CNN3	calponin 3	-1.142	1.918	Down
199857	ALG14	ALG14 UDP-N-acetylglucosaminyltransferase subunit	-1.033	2.686	Down
64645	MFSD14A	major facilitator superfamily domain containing 14A	-0.64	4.587	Down
163786	SASS6	SAS-6 centriolar assembly protein	-0.415	1.899	Down
7412	VCAM1	vascular cell adhesion molecule 1	-1.973	1.405	Down
148867	SLC30A7	solute carrier family 30 member 7	-0.595	4.073	Down
6884	TAF13	TATA-box binding protein associated factor 13	-1.348	9.188	Down
6301	SARS1	seryl-tRNA synthetase 1	-0.525	1.518	Down
5686	PSMA5	proteasome 20S subunit alpha 5	-1.513	10.066	Down
127002	ATXN7L2	ataxin 7 like 2	-0.723	4.012	Down
2773	GNAI3	G protein subunit alpha i3	-0.875	6.815	Down
271	AMPD2	adenosine monophosphate deaminase 2	-0.549	3.148	Down
1435	CSF1	colony stimulating factor 1	-2.79	1.955	Down
10542	LAMTOR5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-1.255	7.493	Down
79084	WDR77	WD repeat domain 77	-1.642	14.033	Down
515	ATP5PB	ATP synthase peripheral stalk-membrane subunit b	-0.803	1.941	Down
5906	RAP1A	RAP1A, member of RAS oncogene family	-0.796	5.223	Down
1E+08	LINC01160	long intergenic non-protein coding RNA 1160	-3.794	5.926	Down
1.08E+08	LOC107985184	uncharacterized LOC107985184	-0.981	3.181	Down
11218	DDX20	DEAD-box helicase 20	-0.294	2.09	Down
829	CAPZA1	capping actin protein of muscle Z-line subunit alpha 1	-0.605	2.484	Down

6566	SLC16A1	solute carrier family 16 member 1	-1.45	8.129	Down
10717	AP4B1	adaptor related protein complex 4 subunit beta 1	-0.436	1.351	Down
64858	DCLRE1B	DNA cross-link repair 1B	-0.46	2.953	Down
10286	BCAS2	BCAS2 pre-mRNA processing factor	-0.836	5.164	Down
4893	NRAS	NRAS proto-oncogene, GTPase	-1.249	12.064	Down
81839	VANGL1	VANGL planar cell polarity protein 1	-0.927	5.033	Down
1.05E+08	LOC105378925	uncharacterized LOC105378925	-4.253	2.722	Down
3321	IGSF3	immunoglobulin superfamily member 3	-4.857	10.886	Down
914	CD2	CD2 molecule	-0.734	3.231	Down
5738	PTGFRN	prostaglandin F2 receptor inhibitor	-3.042	17.232	Down
8458	TTF2	transcription termination factor 2	-0.707	2.733	Down
54855	TENT5C	terminal nucleotidyltransferase 5C	-0.327	1.318	Down
10885	WDR3	WD repeat domain 3	-0.59	1.486	Down
200162	SPAG17	sperm associated antigen 17	-0.863	2.143	Down
10352	WARS2	tryptophanyl tRNA synthetase 2, mitochondrial	-0.83	5.243	Down
26227	PHGDH	phosphoglycerate dehydrogenase	-2.015	11.648	Down
653505	PPIAL4A	peptidylprolyl isomerase A like 4A	-1.219	2.014	Down
653820	FAM72B	family with sequence similarity 72 member B	-3.112	4.227	Down
554282	FAM72C	family with sequence similarity 72 member C	-2.076	2.686	Down
728833	FAM72D	family with sequence similarity 72 member D	-1.704	2.009	Down
114814	GNRHR2	gonadotropin releasing hormone receptor 2 (pseudogene)	-0.488	2.637	Down
9939	RBM8A	RNA binding motif protein 8A	-0.93	17.47	Down
1.05E+08	LIX1L-AS1	LIX1L antisense RNA 1	-1.615	26.238	Down
284615	ANKRD34A	ankyrin repeat domain 34A	-0.915	1.458	Down
9557	CHD1L	chromodomain helicase DNA binding protein 1 like	-0.448	2.847	Down
171423	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1	-1.178	7.576	Down
2330	FMO5	flavin containing dimethylaniline monoxygenase 5	-1.163	5.39	Down
607	BCL9	BCL9 transcription coactivator	-0.371	1.316	Down

284561	LINC02806	long intergenic non-protein coding RNA 2806	-4.124	2.567	Down
644591	PPIAL4G	peptidylprolyl isomerase A like 4G	-1.311	2.539	Down
653598	PPIAL4C	peptidylprolyl isomerase A like 4C	-1.053	1.644	Down
723790	H2AC19	H2A clustered histone 19	-0.911	1.312	Down
10262	SF3B4	splicing factor 3b subunit 4	-1.036	10.833	Down
56957	OTUD7B	OTU deubiquitinase 7B	-1.277	4.809	Down
81611	ANP32E	acidic nuclear phosphoprotein 32 family member E	-0.724	5.141	Down
9129	PRPF3	pre-mRNA processing factor 3	-1.425	7.397	Down
80222	TARS2	threonyl-tRNA synthetase 2, mitochondrial	-0.333	1.745	Down
2029	ENSA	endosulfine alpha	-0.802	5.751	Down
8394	PIP5K1A	phosphatidylinositol-4-phosphate 5-kinase type 1 alpha	-1.002	12.723	Down
5710	PSMD4	proteasome 26S subunit ubiquitin receptor, non-ATPase 4	-0.866	4.671	Down
5298	PI4KB	phosphatidylinositol 4-kinase beta	-0.385	2.399	Down
5993	RFX5	regulatory factor X5	-1.114	11.811	Down
1.02E+08	RFX5-AS1	RFX5 antisense RNA 1	-1.229	1.41	Down
5692	PSMB4	proteasome 20S subunit beta 4	-1.16	7.975	Down
1E+08	C2CD4D	C2 calcium dependent domain containing 4D	-1.514	4.321	Down
1E+08	C2CD4D-AS1	C2CD4D and THEM5 antisense RNA 1	-2.299	15.872	Down
284486	THEM5	thioesterase superfamily member 5	-1.596	3.157	Down
57115	PGLYRP4	peptidoglycan recognition protein 4	-6.103	4.269	Down
6284	S100A13	S100 calcium binding protein A13	-0.477	2	Down
26097	CHTOP	chromatin target of PRMT1	-0.525	3.279	Down
3608	ILF2	interleukin enhancer binding factor 2	-1.707	10.895	Down
27173	SLC39A1	solute carrier family 39 member 1	-0.788	3.297	Down
7170	TPM3	tropomyosin 3	-1.014	9.244	Down
9898	UBAP2L	ubiquitin associated protein 2 like	-0.831	9.031	Down
10456	HAX1	HCLS1 associated protein X-1	-0.76	2.071	Down
1141	CHRNB2	cholinergic receptor nicotinic beta 2 subunit	-0.754	9.899	Down

103	ADAR	adenosine deaminase RNA specific	-0.818	6.556	Down
10654	PMVK	phosphomevalonate kinase	-1.142	7.179	Down
1163	CKS1B	CDC28 protein kinase regulatory subunit 1B	-1.186	3.312	Down
80308	FLAD1	flavin adenine dinucleotide synthetase 1	-1.063	8.253	Down
51043	ZBTB7B	zinc finger and BTB domain containing 7B	-0.942	7.856	Down
8751	ADAM15	ADAM metallopeptidase domain 15	-1.274	8.034	Down
4582	MUC1	mucin 1, cell surface associated	-1.275	1.56	Down
4580	MTX1	metaxin 1	-1.038	8.709	Down
10067	SCAMP3	secretory carrier membrane protein 3	-0.847	5.776	Down
2224	FDPS	farnesyl diphosphate synthase	-1.582	9.56	Down
284618	RUSC1-AS1	RUSC1 antisense RNA 1	-1.469	9.002	Down
1.05E+08	LOC105371452	uncharacterized LOC105371452	-1.289	2.468	Down
55154	MSTO1	misato mitochondrial distribution and morphology regulator 1	-0.833	4.129	Down
1.01E+08	LOC100505728	uncharacterized LOC100505728	-0.933	1.466	Down
1E+08	MSTO2P	misato family member 2, pseudogene	-0.58	1.497	Down
56893	UBQLN4	ubiquilin 4	-0.611	3.046	Down
28956	LAMTOR2	late endosomal/lysosomal adaptor, MAPK and MTOR activator 2	-0.575	1.312	Down
92312	MEX3A	mex-3 RNA binding family member A	-1.908	2.484	Down
4000	LMNA	lamin A/C	-3.018	13.57	Down
64218	SEMA4A	semaphorin 4A	-1.368	1.927	Down
9673	SLC25A44	solute carrier family 25 member 44	-0.762	3.597	Down
1.01E+08	PMF1-BGLAP	PMF1-BGLAP readthrough	-1.519	9.705	Down
11243	PMF1	polyamine modulated factor 1	-1.501	8.192	Down
7203	CCT3	chaperonin containing TCP1 subunit 3	-1.637	17.203	Down
10485	MIR9-1HG	MIR9-1 host gene	-3.789	6.538	Down
128240	NAXE	NAD(P)HX epimerase	-1.136	6.178	Down
54865	GPATCH4	G-patch domain containing 4 (gene/pseudogene)	-1.893	11.363	Down
81875	ISG20L2	interferon stimulated exonuclease gene 20 like 2	-0.521	2.111	Down

79590	MRPL24	mitochondrial ribosomal protein L24	-1.188	4.997	Down
3068	HDGF	heparin binding growth factor	-0.484	5.196	Down
5546	PRCC	proline rich mitotic checkpoint control factor	-0.487	3.094	Down
9047	SH2D2A	SH2 domain containing 2A	-1.415	6.532	Down
910	CD1B	CD1b molecule	-3.16	1.379	Down
9447	AIM2	absent in melanoma 2	-2.179	6.385	Down
54935	DUSP23	dual specificity phosphatase 23	-1.05	3.829	Down
8407	TAGLN2	transgelin 2	-0.83	4.581	Down
93185	IGSF8	immunoglobulin superfamily member 8	-0.53	4.064	Down
5824	PEX19	peroxisomal biogenesis factor 19	-0.413	2.526	Down
474338	SUMO1P3	SUMO1 pseudogene 3	-0.85	1.803	Down
6504	SLAMF1	signaling lymphocytic activation molecule family member 1	-1.89	17.742	Down
1.08E+08	LOC107985220	uncharacterized LOC107985220	-1.783	1.814	Down
5202	PFDN2	prefoldin subunit 2	-1.554	13.18	Down
8703	B4GALT3	beta-1,4-galactosyltransferase 3	-0.691	3.917	Down
4720	NDUFS2	NADH:ubiquinone oxidoreductase core subunit S2	-0.836	9.933	Down
84134	TOMM40L	translocase of outer mitochondrial membrane 40 like	-1.893	10.777	Down
1.01E+08	MIR5187	microRNA 5187	-1.885	1.889	Down
9970	NR1I3	nuclear receptor subfamily 1 group I member 3	-1.74	3.515	Down
6391	SDHC	succinate dehydrogenase complex subunit C	-0.573	1.752	Down
1E+08	TRE-TTC4-2	tRNA-Glu (anticodon TTC) 4-2	-2.66	5.595	Down
22926	ATF6	activating transcription factor 6	-0.511	3.088	Down
51478	HSD17B7	hydroxysteroid 17-beta dehydrogenase 7	-0.632	2.119	Down
54499	TMCO1	transmembrane and coiled-coil domains 1	-0.6	1.837	Down
7371	UCK2	uridine-cytidine kinase 2	-2.207	27.44	Down
1.01E+08	MIR3658	microRNA 3658	-2.446	5.68	Down
387597	ILDR2	immunoglobulin like domain containing receptor 2	-2.687	13.356	Down
261726	TIPRL	TOR signaling pathway regulator	-0.725	1.908	Down

6846	XCL2	X-C motif chemokine ligand 2	-3.08	11.83	Down
6375	XCL1	X-C motif chemokine ligand 1	-2.889	5.902	Down
10560	SLC19A2	solute carrier family 19 member 2	-1.209	6.735	Down
2153	F5	coagulation factor V	-0.966	1.413	Down
22920	KIFAP3	kinesin associated protein 3	-1.081	5.075	Down
7151	TOP1P1	DNA topoisomerase I pseudogene 1	-1.2	3.678	Down
356	FASLG	Fas ligand	-3.583	28.752	Down
55157	DARS2	aspartyl-tRNA synthetase 2, mitochondrial	-0.771	6.821	Down
27101	CACYBP	calcyclin binding protein	-0.736	3.297	Down
26092	TOR1AIP1	torsin 1A interacting protein 1	-0.336	1.799	Down
5768	QSOX1	quiescin sulfhydryl oxidase 1	-0.431	2.747	Down
84320	ACBD6	acyl-CoA binding domain containing 6	-0.883	7.491	Down
10228	STX6	syntaxin 6	-0.464	2.185	Down
51278	IER5	immediate early response 5	-1.638	16.1	Down
6004	RGS16	regulator of G protein signaling 16	-3.239	13.272	Down
647070	DHX9-AS1	DHX9 antisense RNA 1	-1.046	7.793	Down
1660	DHX9	DExH-box helicase 9	-1.313	23.809	Down
116461	TSEN15	tRNA splicing endonuclease subunit 15	-1.501	9.399	Down
5743	PTGS2	prostaglandin-endoperoxide synthase 2	-2.54	1.644	Down
5996	RGS1	regulator of G protein signaling 1	-3.012	8.429	Down
1.08E+08	LOC107985241	uncharacterized LOC107985241	-2.525	1.492	Down
6003	RGS13	regulator of G protein signaling 13	-3.667	2.043	Down
51377	UCHL5	ubiquitin C-terminal hydrolase L5	-0.642	3.747	Down
51022	GLRX2	glutaredoxin 2	-0.82	3.1	Down
1.02E+08	LOC101929160		-0.756	3.728	Down
79577	CDC73	cell division cycle 73	-0.668	4.79	Down
163486	DENND1B	DENN domain containing 1B	-0.978	4.625	Down
10440	TIMM17A	translocase of inner mitochondrial membrane 17A	-1.431	9.223	Down

5778	PTPN7	protein tyrosine phosphatase non-receptor type 7	-1.951	40.131	Down
29089	UBE2T	ubiquitin conjugating enzyme E2 T	-1.455	5.7	Down
7832	BTG2	BTG anti-proliferation factor 2	-1.358	8.244	Down
6635	SNRPE	small nuclear ribonucleoprotein polypeptide E	-0.906	2.173	Down
84919	PPP1R15B	protein phosphatase 1 regulatory subunit 15B	-0.725	3.228	Down
1E+08	TRK-TTT3-1	tRNA-Lys (anticodon TTT) 3-1	-4.089	2.401	Down
9911	TMCC2	transmembrane and coiled-coil domain family 2	-2.032	5.143	Down
254428	SLC41A1	solute carrier family 41 member 1	-0.45	2.051	Down
729533	FAM72A	family with sequence similarity 72 member A	-1.939	2.511	Down
9641	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.746	2.34	Down
3586	IL10	interleukin 10	-7.163	44.731	Down
29949	IL19	interleukin 19	-6.531	20.794	Down
55432	YOD1	YOD1 deubiquitinase	-0.642	3.744	Down
5208	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	-0.988	1.714	Down
3914	LAMB3	laminin subunit beta 3	-1.621	1.573	Down
1.02E+08	HSD11B1-AS1	HSD11B1 antisense RNA 1	-3.013	4.218	Down
7779	SLC30A1	solute carrier family 30 member 1	-1.039	5.532	Down
9926	LPGAT1	lysophosphatidylglycerol acyltransferase 1	-0.621	3.502	Down
25896	INTS7	integrator complex subunit 7	-1.165	9.235	Down
51514	DTL	denticleless E3 ubiquitin protein ligase homolog	-4.635	36.993	Down
55509	BATF3	basic leucine zipper ATF-like transcription factor 3	-4.878	13.567	Down
28982	FLVCR1	FLVCR heme transporter 1	-1.079	5.461	Down
51018	RRP15	ribosomal RNA processing 15 homolog	-1.119	6.783	Down
2058	EPRS1	glutamyl-prolyl-tRNA synthetase 1	-0.713	4.334	Down
10380	BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1	-0.839	4.39	Down
11221	DUSP10	dual specificity phosphatase 10	-1.74	5.288	Down
9015	TAF1A	TATA-box binding protein associated factor, RNA polymerase I subunit A	-0.497	2.373	Down
7159	TP53BP2	tumor protein p53 binding protein 2	-0.786	2.428	Down

55740	ENAH	ENAH actin regulator	-2.074	1.623	Down
6726	SRP9	signal recognition particle 9	-0.714	2.396	Down
29920	PYCR2	pyrroline-5-carboxylate reductase 2	-0.756	3.685	Down
163859	SDE2	SDE2 telomere maintenance homolog	-0.645	3.459	Down
142	PARP1	poly(ADP-ribose) polymerase 1	-0.729	4.399	Down
5664	PSEN2	presenilin 2	-2.114	4.729	Down
339500	ZNF678	zinc finger protein 678	-1.049	7.057	Down
65094	JMJD4	jumonji domain containing 4	-0.53	2.731	Down
375	ARF1	ADP ribosylation factor 1	-0.413	2.017	Down
2987	GUK1	guanylate kinase 1	-0.964	3.256	Down
58480	RHOU	ras homolog family member U	-1.725	2.192	Down
58	ACTA1	actin alpha 1, skeletal muscle	-2.277	11.948	Down
55746	NUP133	nucleoporin 133	-0.315	1.606	Down
9816	URB2	URB2 ribosome biogenesis homolog	-1.492	5.405	Down
2590	GALNT2	polypeptide N-acetylgalactosaminyltransferase 2	-0.381	1.622	Down
128061	C1orf131	chromosome 1 open reading frame 131	-0.466	1.463	Down
8443	GNPAT	glyceronephosphate O-acyltransferase	-0.578	2.305	Down
83932	SPRTN	SprT-like N-terminal domain	-0.518	1.822	Down
3775	KCNK1	potassium two pore domain channel subfamily K member 1	-3.325	3.503	Down
388753	COA6	cytochrome c oxidase assembly factor 6	-0.898	1.775	Down
6894	TARBP1	TAR (HIV-1) RNA binding protein 1	-0.811	3.122	Down
1.01E+08	LINC01132	long intergenic non-protein coding RNA 1132	-7.717	7.736	Down
6905	TBCE	tubulin folding cofactor E	-0.717	2.903	Down
2786	GNG4	G protein subunit gamma 4	-1.866	1.791	Down
128178	EDARADD	EDAR associated death domain	-1.596	6.204	Down
55127	HEATR1	HEAT repeat containing 1	-0.706	3.731	Down
1E+08	LOC100130331	POTE ankyrin domain family, member F pseudogene	-2.051	3.505	Down
2271	FH	fumarate hydratase	-1.071	7.801	Down

9156	EXO1	exonuclease 1	-2.493	4.96	Down
51029	DESI2	desumoylating isopeptidase 2	-0.797	2.884	Down
116228	COX20	cytochrome c oxidase assembly factor COX20	-0.623	3.135	Down
3192	HNRNPU	heterogeneous nuclear ribonucleoprotein U	-0.979	4.823	Down
1.07E+08	SNORA100	small nucleolar RNA, H/ACA box 100	-0.852	3.097	Down
64216	TFB2M	transcription factor B2, mitochondrial	-0.872	5.38	Down
51097	SCCPDH	saccharopine dehydrogenase (putative)	-1.894	6.803	Down
642273	FAM110C	family with sequence similarity 110 member C	-1.13	1.423	Down
7260	EIPR1	EARP complex and GARP complex interacting protein 1	-0.909	4.827	Down
129607	CMPK2	cytidine/uridine monophosphate kinase 2	-2.002	3.091	Down
386597	GRASLND	glycosaminoglycan regulatory associated long non-coding RNA	-2.403	22.867	Down
9781	RNF144A	ring finger protein 144A	-0.852	1.85	Down
1.01E+08	LOC100506274	uncharacterized LOC100506274	-3.079	3.105	Down
1.02E+08	LOC101929510	uncharacterized LOC101929510	-1.807	3.78	Down
1.02E+08	LINC01871	long intergenic non-protein coding RNA 1871	-2.237	8.748	Down
3398	ID2	inhibitor of DNA binding 2	-2.747	11.456	Down
9270	ITGB1BP1	integrin subunit beta 1 binding protein 1	-0.72	6.842	Down
51692	CPSF3	cleavage and polyadenylation specific factor 3	-0.64	3.287	Down
285148	IAH1	isoamyl acetate hydrolyzing esterase 1 (putative)	-0.503	2.177	Down
10971	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta	-2.002	43.918	Down
9014	TAF1B	TATA-box binding protein associated factor, RNA polymerase I subunit B	-0.863	2.713	Down
29841	GRHL1	grainyhead like transcription factor 1	-2.183	2.477	Down
6241	RRM2	ribonucleotide reductase regulatory subunit M2	-3.368	17.931	Down
4953	ODC1	ornithine decarboxylase 1	-1.916	12.796	Down
79954	NOL10	nucleolar protein 10	-1.465	15.857	Down
245973	ATP6V1C2	ATPase H+ transporting V1 subunit C2	-1.423	6.858	Down
10130	PDIA6	protein disulfide isomerase family A member 6	-1.498	9.228	Down
1876	E2F6	E2F transcription factor 6	-0.689	4.738	Down

1653	DDX1	DEAD-box helicase 1	-1.098	7.053	Down
348654	GEN1	GEN1 Holliday junction 5' flap endonuclease	-1.216	13.82	Down
388	RHOB	ras homolog family member B	-0.705	1.599	Down
60526	LDAH	lipid droplet associated hydrolase	-1.123	4.562	Down
388931	MFSD2B	MFSD2 lysolipid transporter B, sphingolipid	-0.746	1.49	Down
2281	FKBP1B	FKBP prolyl isomerase 1B	-0.78	2.038	Down
51639	SF3B6	splicing factor 3b subunit 6	-0.809	3.313	Down
79172	CENPO	centromere protein O	-0.838	7.151	Down
109	ADCY3	adenylate cyclase 3	-1.24	5.336	Down
5443	POMC	proopiomelanocortin	-0.994	2.688	Down
10890	RAB10	RAB10, member RAS oncogene family	-0.858	4.146	Down
85465	SELENOI	selenoprotein I	-2.036	32.212	Down
9381	OTOF	otoferlin	-2.773	4.873	Down
54867	TMEM214	transmembrane protein 214	-0.831	6.521	Down
84696	ABHD1	abhydrolase domain containing 1	-0.707	3.405	Down
10113	PREB	prolactin regulatory element binding	-0.78	4.641	Down
8884	SLC5A6	solute carrier family 5 member 6	-1.452	10.451	Down
790	CAD	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	-1.065	6.823	Down
4358	MPV17	mitochondrial inner membrane protein MPV17	-0.612	2.891	Down
2976	GTF3C2	general transcription factor IIIC subunit 2	-0.528	2.851	Down
1.01E+08	GTF3C2-AS1	GTF3C2 antisense RNA 1	-0.633	2.475	Down
8890	EIF2B4	eukaryotic translation initiation factor 2B subunit delta	-0.682	5.153	Down
130557	ZNF513	zinc finger protein 513	-0.686	2.484	Down
5496	PPM1G	protein phosphatase, Mg2+/Mn2+ dependent 1G	-0.626	3.579	Down
29959	NRBP1	nuclear receptor binding protein 1	-0.623	4.53	Down
84226	C2orf16	chromosome 2 open reading frame 16	-2.828	5.48	Down
11321	GPN1	GPN-loop GTPase 1	-0.702	2.473	Down
9913	SUPT7L	SPT7 like, STAGA complex subunit gamma	-0.433	3.164	Down

22950	SLC4A1AP	solute carrier family 4 member 1 adaptor protein	-0.625	6.015	Down
9553	MRPL33	mitochondrial ribosomal protein L33	-0.609	1.489	Down
64080	RBKS	ribokinase	-1.741	13.846	Down
9577	BABAM2	BRISC and BRCA1 A complex member 2	-0.593	2.486	Down
1E+08	BABAM2-AS1	BABAM2 antisense RNA 1	-1.712	6.132	Down
2355	FOSL2	FOS like 2, AP-1 transcription factor subunit	-2.177	10.145	Down
23160	WDR43	WD repeat domain 43	-1.11	14.889	Down
253558	LCLAT1	lysocardiolipin acyltransferase 1	-0.675	1.527	Down
51072	MEMO1	mediator of cell motility 1	-1.383	14.013	Down
55622	TTC27	tetratricopeptide repeat domain 27	-1.685	15.883	Down
25780	RASGRP3	RAS guanyl releasing protein 3	-2.592	9.24	Down
1.05E+08	RASGRP3-AS1	RASGRP3 antisense RNA 1	-1.498	1.713	Down
25940	FAM98A	family with sequence similarity 98 member A	-1.586	16.803	Down
5610	EIF2AK2	eukaryotic translation initiation factor 2 alpha kinase 2	-1.046	1.309	Down
10153	CEBPZ	CCAAT enhancer binding protein zeta	-0.425	2.654	Down
92906	HNRNPLL	heterogeneous nuclear ribonucleoprotein L like	-1.112	13.271	Down
130589	GALM	galactose mutarotase	-1.379	7.928	Down
6432	SRSF7	serine and arginine rich splicing factor 7	-1.903	29.393	Down
729967	MORN2	MORN repeat containing 2	-1.46	3.168	Down
6654	SOS1	SOS Ras/Rac guanine nucleotide exchange factor 1	-0.926	2.762	Down
80745	THUMPD2	THUMP domain containing 2	-0.62	1.997	Down
10128	LRPPRC	leucine rich pentatricopeptide repeat containing	-0.574	1.504	Down
2034	EPAS1	endothelial PAS domain protein 1	-3.265	11.828	Down
57217	TTC7A	tetratricopeptide repeat domain 7A	-1.288	8.763	Down
494143	CHAC2	ChaC glutathione specific gamma-glutamylcyclotransferase 2	-2.22	16.436	Down
87178	PNPT1	polyribonucleotide nucleotidyltransferase 1	-2.133	40.135	Down
7444	VRK2	VRK serine/threonine kinase 2	-0.819	6.582	Down
55120	FANCL	FA complementation group L	-0.963	5.569	Down

5966	REL	REL proto-oncogene, NF-kB subunit	-1.364	3.315	Down
7514	XPO1	exportin 1	-1.159	11.594	Down
10575	CCT4	chaperonin containing TCP1 subunit 4	-0.964	3.134	Down
150684	COMMD1	copper metabolism domain containing 1	-0.998	4.444	Down
10678	B3GNT2	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2	-0.624	3.131	Down
4190	MDH1	malate dehydrogenase 1	-0.826	2.925	Down
57162	PELI1	pellino E3 ubiquitin protein ligase 1	-1.083	3.196	Down
29094	LGALSL	galectin like	-1.957	2.891	Down
10097	ACTR2	actin related protein 2	-0.628	4.555	Down
200734	SPRED2	sprouty related EVH1 domain containing 2	-1.917	2.216	Down
10438	C1D	C1D nuclear receptor corepressor	-0.63	1.873	Down
56902	PNO1	partner of NOB1 homolog	-1.786	11.231	Down
5341	PLEK	pleckstrin	-0.965	1.475	Down
200558	APLF	aprataxin and PNKP like factor	-0.785	1.812	Down
2673	GFPT1	glutamine--fructose-6-phosphate transaminase 1	-0.809	6.965	Down
11017	SNRNP27	small nuclear ribonucleoprotein U4/U6.U5 subunit 27	-0.933	12.878	Down
7072	TIA1	TIA1 cytotoxic granule associated RNA binding protein	-1.389	12.997	Down
6637	SNRPG	small nuclear ribonucleoprotein polypeptide G	-1.616	10.979	Down
84908	FAM136A	family with sequence similarity 136 member A	-1.031	5.468	Down
55577	NAGK	N-acetylglucosamine kinase	-0.791	3.314	Down
6697	SPR	sepiapterin reductase	-1.168	1.505	Down
10322	SMYD5	SMYD family member 5	-0.664	3.776	Down
10574	CCT7	chaperonin containing TCP1 subunit 7	-1.624	10.488	Down
1961	EGR4	early growth response 4	-9.04	9.667	Down
388962	BOLA3	bolA family member 3	-1.929	11.119	Down
55233	MOB1A	MOB kinase activator 1A	-0.403	1.934	Down
10797	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	-2.499	10.157	Down
57835	SLC4A5	solute carrier family 4 member 5	-1.242	2.597	Down

7841	MOGS	mannosyl-oligosaccharide glucosidase	-0.478	1.449	Down
550	AUP1	AUP1 lipid droplet regulating VLDL assembly factor	-0.731	4.005	Down
27429	HTRA2	HtrA serine peptidase 2	-0.851	4.897	Down
84695	LOXL3	lysyl oxidase like 3	-0.647	2.055	Down
56655	POLE4	DNA polymerase epsilon 4, accessory subunit	-0.548	1.346	Down
9801	MRPL19	mitochondrial ribosomal protein L19	-1.152	11.305	Down
6936	GCFC2	GC-rich sequence DNA-binding factor 2	-0.604	7.158	Down
8802	SUCLG1	succinate-CoA ligase GDP/ADP-forming subunit alpha	-0.72	1.83	Down
1.05E+08	LOC105374836	uncharacterized LOC105374836	-1.281	3.978	Down
9168	TMSB10	thymosin beta 10	-1.369	4.382	Down
56888	KCMF1	potassium channel modulatory factor 1	-0.462	2.849	Down
4144	MAT2A	methionine adenosyltransferase 2A	-1.261	7.472	Down
2677	GGCX	gamma-glutamyl carboxylase	-0.672	4.107	Down
51255	RNF181	ring finger protein 181	-0.863	2.359	Down
129303	TMEM150A	transmembrane protein 150A	-0.429	1.702	Down
10713	USP39	ubiquitin specific peptidase 39	-0.487	2.029	Down
25885	POLR1A	RNA polymerase I subunit A	-1.225	5.24	Down
10989	IMMT	inner membrane mitochondrial protein	-1.04	4.872	Down
51318	MRPL35	mitochondrial ribosomal protein L35	-1.231	6.849	Down
1E+08	ANAPC1P1	ANAPC1 pseudogene 1	-0.856	2.518	Down
1.03E+08	LOC102724642	anaphase-promoting complex subunit 1-like	-0.465	1.703	Down
1.02E+08	LINC01943	long intergenic non-protein coding RNA 1943	-4.064	19.994	Down
112597	CYTOR	cytoskeleton regulator RNA	-1.554	5.991	Down
22934	RPIA	ribose 5-phosphate isomerase A	-1.071	8.013	Down
64969	MRPS5	mitochondrial ribosomal protein S5	-0.588	4.876	Down
150763	GPAT2	glycerol-3-phosphate acyltransferase 2, mitochondrial	-1.413	4.101	Down
1844	DUSP2	dual specificity phosphatase 2	-3.08	16.598	Down
56910	STARD7	StAR related lipid transfer domain containing 7	-0.717	4.38	Down

23020	SNRNP200	small nuclear ribonucleoprotein U5 subunit 200	-0.462	1.875	Down
150771	ITPRIPL1	ITPRIP like 1	-1.078	5.16	Down
93082	NEURL3	neuralized E3 ubiquitin protein ligase 3	-3.47	3.806	Down
26504	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4	-0.888	5.692	Down
51239	ANKRD39	ankyrin repeat domain 39	-1.691	12.009	Down
129531	MITD1	microtubule interacting and trafficking domain containing 1	-0.948	4.779	Down
10190	TXNDC9	thioredoxin domain containing 9	-0.987	4.315	Down
9669	EIF5B	eukaryotic translation initiation factor 5B	-1.103	3.498	Down
79031	PDCL3	phosducin like 3	-0.765	5.732	Down
55571	CNOT11	CCR4-NOT transcription complex subunit 11	-0.792	6.714	Down
7850	IL1R2	interleukin 1 receptor type 2	-3.373	5.554	Down
8808	IL1RL2	interleukin 1 receptor like 2	-2.243	2.15	Down
8807	IL18RAP	interleukin 18 receptor accessory protein	-1.946	3.459	Down
64965	MRPS9	mitochondrial ribosomal protein S9	-0.694	3.242	Down
1.02E+08	MRPS9-AS1	MRPS9 antisense RNA 1	-0.888	3.726	Down
2274	FHL2	four and a half LIM domains 2	-1.306	1.581	Down
402096	ANAPC1P6	ANAPC1 pseudogene 6	-0.684	1.524	Down
927	CD8B2	CD8b2 molecule	-2.018	1.732	Down
4867	NPHP1	nephrocystin 1	-1.825	1.962	Down
205251	MTLN	mitoregulin	-0.772	4.099	Down
699	BUB1	BUB1 mitotic checkpoint serine/threonine kinase	-0.983	3.938	Down
541471	MIR4435-2HG	MIR4435-2 host gene	-2.092	8.424	Down
1.05E+08	SOCAR	serous ovarian cancer associated RNA	-4.111	18.207	Down
64682	ANAPC1	anaphase promoting complex subunit 1	-0.661	4.54	Down
84172	POLR1B	RNA polymerase I subunit B	-0.676	1.325	Down
150468	CKAP2L	cytoskeleton associated protein 2 like	-3.184	6.555	Down
3552	IL1A	interleukin 1 alpha	-4.885	2.812	Down
23550	PSD4	pleckstrin and Sec7 domain containing 4	-1.172	4.751	Down

150472	ZNG1B	Zn regulated GTPase metalloprotein activator 1B	-1.184	15.169	Down
10096	ACTR3	actin related protein 3	-1.34	9.617	Down
8886	DDX18	DEAD-box helicase 18	-0.422	1.839	Down
1622	DBI	diazepam binding inhibitor, acyl-CoA binding protein	-1.456	8.801	Down
80775	TMEM177	transmembrane protein 177	-0.561	1.618	Down
57669	EPB41L5	erythrocyte membrane protein band 4.1 like 5	-0.432	1.431	Down
1.05E+08	LOC105373582	uncharacterized LOC105373582	-3.572	6.754	Down
79134	TMEM185B	transmembrane protein 185B	-0.627	5.696	Down
5899	RALB	RAS like proto-oncogene B	-2.534	50.175	Down
84365	NIFK	nucleolar protein interacting with the FHA domain of MKI67	-0.746	3.183	Down
55677	IWS1	interacts with SUPT6H, CTD assembly factor 1	-0.672	2.122	Down
5433	POLR2D	RNA polymerase II subunit D	-0.66	2.943	Down
83607	AMMECR1L	AMMECR1 like	-0.473	1.359	Down
9394	HS6ST1	heparan sulfate 6-O-sulfotransferase 1	-0.591	5.256	Down
728378	POTEF	POTE ankyrin domain family member F	-2.327	8.257	Down
55627	SMPD4	sphingomyelin phosphodiesterase 4	-0.34	1.316	Down
92856	IMP4	IMP U3 small nucleolar ribonucleoprotein 4	-0.668	3.912	Down
653269	POTEI	POTE ankyrin domain family member I	-2.148	8.371	Down
653781	POTEJ	POTE ankyrin domain family member J	-2.268	7.891	Down
445582	POTEE	POTE ankyrin domain family member E	-2.257	9.007	Down
401010	NOC2LP2	NOC2 like nucleolar associated transcriptional repressor pseudogene 2	-1.822	6.257	Down
440915	POTEKP	POTE ankyrin domain family member K, pseudogene	-1.897	6.538	Down
23190	UBXN4	UBX domain protein 4	-0.373	1.571	Down
4175	MCM6	minichromosome maintenance complex component 6	-0.83	4.441	Down
1.05E+08	LOC105373645	uncharacterized LOC105373645	-5.226	2.83	Down
79712	GTDC1	glycosyltransferase like domain containing 1	-0.421	1.639	Down
27249	MMADHC	metabolism of cobalamin associated D	-0.567	1.323	Down
9111	NMI	N-myc and STAT interactor	-0.84	2.109	Down

26225	ARL5A	ADP ribosylation factor like GTPase 5A	-0.69	1.805	Down
10254	STAM2	signal transducing adaptor molecule 2	-0.53	1.454	Down
55660	PRPF40A	pre-mRNA processing factor 40 homolog A	-0.691	4.538	Down
2820	GPD2	glycerol-3-phosphate dehydrogenase 2	-0.982	6.294	Down
9595	CYTIP	cytohesin 1 interacting protein	-1.195	7.372	Down
1.05E+08	LOC105373712	uncharacterized LOC105373712	-1.333	1.807	Down
90	ACVR1	activin A receptor type 1	-0.452	1.605	Down
1.01E+08	MIR4785	microRNA 4785	-1.389	1.444	Down
10010	TANK	TRAF family member associated NFKB activator	-1.498	12.188	Down
10213	PSMD14	proteasome 26S subunit, non-ATPase 14	-2.522	39.973	Down
57282	SLC4A10	solute carrier family 4 member 10	-2.409	3.613	Down
1E+08	DPP4-DT	DPP4 divergent transcript	-1.355	2.158	Down
64135	IFIH1	interferon induced with helicase C domain 1	-1.9	16.002	Down
27347	STK39	serine/threonine kinase 39	-0.468	1.693	Down
253782	CERS6	ceramide synthase 6	-0.606	1.368	Down
57405	SPC25	SPC25 component of NDC80 kinetochore complex	-2.685	1.841	Down
79675	FASTKD1	FAST kinase domains 1	-1.166	2.193	Down
6741	SSB	small RNA binding exonuclease protection factor La	-0.729	7.15	Down
29081	METTL5	methyltransferase 5, N6-adenosine	-0.69	2.611	Down
1781	DYNC1I2	dynein cytoplasmic 1 intermediate chain 2	-0.497	2.473	Down
8604	SLC25A12	solute carrier family 25 member 12	-0.702	3.374	Down
8520	HAT1	histone acetyltransferase 1	-0.632	2.48	Down
51776	MAP3K20	mitogen-activated protein kinase kinase kinase 20	-1.744	5.313	Down
339751	MAP3K20-AS1	MAP3K20 antisense RNA 1	-2.038	3.464	Down
83879	CDCA7	cell division cycle associated 7	-2.066	8.053	Down
29789	OLA1	Obg like ATPase 1	-0.531	1.395	Down
518	ATP5MC3	ATP synthase membrane subunit c locus 3	-1.263	8.328	Down
10651	MTX2	metaxin 2	-1.077	6.07	Down

220988	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	-1.351	15.782	Down
1.01E+08	MIR4444-1	microRNA 4444-1	-1.691	17.515	Down
4780	NFE2L2	NFE2 like bZIP transcription factor 2	-0.735	2.237	Down
8540	AGPS	alkylglycerone phosphate synthase	-1.328	13.122	Down
129831	RBM45	RNA binding motif protein 45	-1.064	9.426	Down
8575	PRKRA	protein activator of interferon induced protein kinase EIF2AK2	-0.479	1.328	Down
54431	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10	-0.959	8.968	Down
10787	NCKAP1	NCK associated protein 1	-0.709	2.278	Down
129401	NUP35	nucleoporin 35	-1.332	5.712	Down
55854	ZC3H15	zinc finger CCCH-type containing 15	-0.619	4.163	Down
84128	WDR75	WD repeat domain 75	-0.979	7.878	Down
26275	HIBCH	3-hydroxyisobutyryl-CoA hydrolase	-1.318	9.571	Down
3628	INPP1	inositol polyphosphate-1-phosphatase	-1.665	6.408	Down
4664	NAB1	NGFI-A binding protein 1	-0.799	2.303	Down
2744	GLS	glutaminase	-1.414	13.713	Down
6772	STAT1	signal transducer and activator of transcription 1	-3.439	32.781	Down
4430	MYO1B	myosin IB	-2.3	4.381	Down
64859	NABP1	nucleic acid binding protein 1	-1.925	7.55	Down
9262	STK17B	serine/threonine kinase 17b	-0.482	1.497	Down
1.02E+08	LOC101927454	uncharacterized LOC101927454	-0.587	1.713	Down
57520	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	-3.211	7.926	Down
9330	GTF3C3	general transcription factor IIIC subunit 3	-0.559	3.569	Down
23451	SF3B1	splicing factor 3b subunit 1	-0.371	2.043	Down
80219	COQ10B	coenzyme Q10B	-0.864	5.234	Down
3329	HSPD1	heat shock protein family D (Hsp60) member 1	-1.647	12.068	Down
1.07E+08	SNORA105B	small nucleolar RNA, H/ACA box 105B	-1.632	12.245	Down
1.01E+08	HSPE1-MOB4	HSPE1-MOB4 readthrough	-1.354	13.205	Down
3336	HSPE1	heat shock protein family E (Hsp10) member 1	-2.272	24.31	Down

92935	MARS2	methionyl-tRNA synthetase 2, mitochondrial	-0.584	1.368	Down
79568	MAIP1	matrix AAA peptidase interacting protein 1	-0.974	4.852	Down
26010	SPATS2L	spermatogenesis associated serine rich 2 like	-1.41	1.5	Down
1.02E+08	BZW1-AS1	BZW1 antisense RNA 1	-1.497	17.117	Down
9689	BZW1	basic leucine zipper and W2 domains 1	-1.563	15.233	Down
4709	NDUFB3	NADH:ubiquinone oxidoreductase subunit B3	-0.74	1.439	Down
8837	CFLAR	CASP8 and FADD like apoptosis regulator	-1.056	3.679	Down
65072	CFLAR-AS1	CFLAR antisense RNA 1	-2.154	29.262	Down
57679	ALS2	alsin Rho guanine nucleotide exchange factor ALS2	-0.643	2.245	Down
7341	SUMO1	small ubiquitin like modifier 1	-0.739	2.448	Down
51602	NOP58	NOP58 ribonucleoprotein	-1.124	9.559	Down
130026	ICA1L	islet cell autoantigen 1 like	-1.214	3.781	Down
55759	WDR12	WD repeat domain 12	-1.841	37.57	Down
65059	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	-1.609	2.487	Down
940	CD28	CD28 molecule	-1.084	9.704	Down
1493	CTLA4	cytotoxic T-lymphocyte associated protein 4	-4.599	22.665	Down
1.02E+08	LOC101927840	uncharacterized LOC101927840	-2.451	4.766	Down
29851	ICOS	inducible T cell costimulator	-3.148	44.448	Down
4719	NDUFS1	NADH:ubiquinone oxidoreductase core subunit S1	-0.353	2.529	Down
22868	FASTKD2	FAST kinase domains 2	-1.246	8.772	Down
130749	CPO	carboxypeptidase O	-0.859	3.438	Down
151194	METTL21A	methyltransferase 21A, HSPA lysine	-0.568	1.473	Down
151195	CCNYL1	cyclin Y like 1	-0.575	1.413	Down
7855	FZD5	frizzled class receptor 5	-0.678	1.76	Down
6120	RPE	ribulose-5-phosphate-3-epimerase	-0.409	1.397	Down
22807	IKZF2	IKAROS family zinc finger 2	-1.04	4.343	Down
79582	SPAG16	sperm associated antigen 16	-0.749	2.033	Down
471	ATIC	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	-0.994	5.069	Down

7520	XRCC5	X-ray repair cross complementing 5	-1.35	11.113	Down
50485	SMARCAL1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a like 1	-0.454	2.556	Down
1.01E+08	RPL37A-DT	RPL37A divergent transcript	-1.191	1.386	Down
1.02E+08	LOC101928487	uncharacterized LOC101928487	-2.129	4.378	Down
10109	ARPC2	actin related protein 2/3 complex subunit 2	-0.897	4.713	Down
14	AAMP	angio associated migratory cell protein	-0.765	5.036	Down
9125	CNOT9	CCR4-NOT transcription complex subunit 9	-1.115	16.045	Down
617	BCS1L	BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone	-0.974	3.411	Down
80326	WNT10A	Wnt family member 10A	-1.35	3.694	Down
79840	NHEJ1	non-homologous end joining factor 1	-0.953	3.169	Down
10058	ABCB6	ATP binding cassette subfamily B member 6 (Langereis blood group)	-1.133	3.214	Down
7277	TUBA4A	tubulin alpha 4a	-1.026	10.019	Down
80086	TUBA4B	tubulin alpha 4b	-0.953	2.67	Down
23549	DNPEP	aspartyl aminopeptidase	-1.397	15.178	Down
29926	GMPPA	GDP-mannose pyrophosphorylase A	-0.807	4.097	Down
79586	CHPF	chondroitin polymerizing factor	-1.566	20.013	Down
130612	TMEM198	transmembrane protein 198	-1.836	4.179	Down
130367	SGPP2	sphingosine-1-phosphate phosphatase 2	-1.437	4.324	Down
10056	FARSB	phenylalanyl-tRNA synthetase subunit beta	-1.397	12.531	Down
2181	ACSL3	acyl-CoA synthetase long chain family member 3	-0.441	1.836	Down
130340	AP1S3	adaptor related protein complex 1 subunit sigma 3	-3.193	8.824	Down
57590	WDFY1	WD repeat and FYVE domain containing 1	-0.916	9.911	Down
65080	MRPL44	mitochondrial ribosomal protein L44	-0.618	3.168	Down
8452	CUL3	cullin 3	-0.291	1.362	Down
84236	RHBDD1	rhomboid domain containing 1	-0.685	3.543	Down
1.01E+08	MIR5703	microRNA 5703	-1.37	1.316	Down
3267	AGFG1	ArfGAP with FG repeats 1	-1.421	16.683	Down
6364	CCL20	C-C motif chemokine ligand 20	-3.943	5.484	Down

51719	CAB39	calcium binding protein 39	-0.536	4.703	Down
81618	ITM2C	integral membrane protein 2C	-1.014	2.148	Down
348761	SPATA3-AS1	SPATA3 antisense RNA 1 (head to head)	-6.005	5.716	Down
5707	PSMD1	proteasome 26S subunit, non-ATPase 1	-2.154	93.326	Down
4691	NCL	nucleolin	-1.248	7.879	Down
129563	DIS3L2	DIS3 like 3'-5' exoribonuclease 2	-0.785	2.173	Down
9470	EIF4E2	eukaryotic translation initiation factor 4E family member 2	-0.595	2.569	Down
55355	HJURP	Holliday junction recognition protein	-2.474	2.46	Down
1293	COL6A3	collagen type VI alpha 3 chain	-2.426	6.059	Down
9208	LRRFIP1	LRR binding FLII interacting protein 1	-0.951	11.656	Down
1.01E+08	UBE2F-SCLY	UBE2F-SCLY readthrough (NMD candidate)	-1.115	7.725	Down
140739	UBE2F	ubiquitin conjugating enzyme E2 F (putative)	-1.046	7.638	Down
51540	SCLY	selenocysteine lyase	-1.19	5.626	Down
643387	TARDBPP3	TARDBP pseudogene 3	-0.826	2.739	Down
55502	HES6	hes family bHLH transcription factor 6	-1.157	1.919	Down
8864	PER2	period circadian regulator 2	-0.575	1.302	Down
2817	GPC1	glypican 1	-2.423	3.47	Down
547	KIF1A	kinesin family member 1A	-3.766	4.08	Down
50636	ANO7	anoctamin 7	-0.478	1.341	Down
4735	SEPTIN2	septin 2	-0.733	5.075	Down
9855	FARP2	FERM, ARH/RhoGEF and pleckstrin domain protein 2	-0.89	3.966	Down
10494	STK25	serine/threonine kinase 25	-0.327	1.49	Down
1841	DTYMK	deoxythymidylate kinase	-1.543	5.73	Down
5133	PDCD1	programmed cell death 1	-1.311	3.693	Down
6419	SETMAR	SET domain and mariner transposase fusion gene	-0.388	1.968	Down
1.01E+08	BHLHE40-AS1	BHLHE40 antisense RNA 1	-1.296	5.348	Down
8553	BHLHE40	basic helix-loop-helix family member e40	-1.691	7.083	Down
9695	EDEM1	ER degradation enhancing alpha-mannosidase like protein 1	-0.564	2.886	Down

56852	RAD18	RAD18 E3 ubiquitin protein ligase	-0.415	2.285	Down
4968	OGG1	8-oxoguanine DNA glycosylase	-0.651	3.381	Down
8536	CAMK1	calcium/calmodulin dependent protein kinase I	-1.15	3.925	Down
10093	ARPC4	actin related protein 2/3 complex subunit 4	-0.85	4.886	Down
1.01E+08	ARPC4-TTLL3	ARPC4-TTLL3 readthrough	-0.737	7.308	Down
285367	RPUSD3	RNA pseudouridine synthase D3	-1.063	4.693	Down
285368	PRRT3	proline rich transmembrane protein 3	-0.565	1.78	Down
3656	IRAK2	interleukin 1 receptor associated kinase 2	-1.104	2.928	Down
6396	SEC13	SEC13 homolog, nuclear pore and COPII coat complex component	-1.223	7.15	Down
3269	HRH1	histamine receptor H1	-3.915	12.541	Down
10533	ATG7	autophagy related 7	-0.456	2.367	Down
132001	TAMM41	TAM41 mitochondrial translocator assembly and maintenance homolog	-0.841	1.848	Down
131474	CHCHD4	coiled-coil-helix-coiled-coil-helix domain containing 4	-0.496	1.5	Down
27258	LSM3	LSM3 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.847	3.522	Down
131965	METTL6	methyltransferase 6, methylcytidine	-0.513	2.223	Down
85403	EAF1	ELL associated factor 1	-0.474	1.774	Down
285381	DPH3	diphthamide biosynthesis 3	-1.066	1.832	Down
6304	SATB1	SATB homeobox 1	-0.994	2.258	Down
151648	SGO1	shugoshin 1	-1.416	1.854	Down
7324	UBE2E1	ubiquitin conjugating enzyme E2 E1	-0.818	4.069	Down
28512	NKIRAS1	NFKB inhibitor interacting Ras like 1	-0.628	2.466	Down
114884	OSBPL10	oxysterol binding protein like 10	-5.052	4.726	Down
54918	CMTM6	CKLF like MARVEL transmembrane domain containing 6	-0.72	1.892	Down
51143	DYNC1LI1	dynein cytoplasmic 1 light intermediate chain 1	-0.751	7.555	Down
1.05E+08	LOC105377022	replaced by ID 2720	-2.001	3.344	Down
4292	MLH1	mutL homolog 1	-0.61	6.444	Down
9941	EXOG	exo/endonuclease G	-0.969	3.183	Down
64651	CSRNP1	cysteine and serine rich nuclear protein 1	-1.824	20.156	Down

165904	XIRP1	xin actin binding repeat containing 1	-4.24	3.064	Down
1237	CCR8	C-C motif chemokine receptor 8	-2.265	5.928	Down
25994	HIGD1A	HIG1 hypoxia inducible domain family member 1A	-1.497	13.289	Down
55129	ANO10	anoctamin 10	-0.836	2.625	Down
51099	ABHD5	abhydrolase domain containing 5, lysophosphatidic acid acyltransferase	-0.808	4.674	Down
7584	ZNF35	zinc finger protein 35	-1.164	1.679	Down
23016	EXOSC7	exosome component 7	-1.02	10.869	Down
23395	LARS2	leucyl-tRNA synthetase 2, mitochondrial	-1.238	9.455	Down
729230	CCR2	C-C motif chemokine receptor 2	-1.426	3.103	Down
1234	CCR5	C-C motif chemokine receptor 5	-1.854	4.099	Down
151903	CCDC12	coiled-coil domain containing 12	-0.521	2.031	Down
23276	KLHL18	kelch like family member 18	-0.756	3.95	Down
54859	ELP6	elongator acetyltransferase complex subunit 6	-0.803	2.668	Down
22907	DHX30	DExH-box helicase 30	-0.798	6.861	Down
4134	MAP4	microtubule associated protein 4	-1.31	4.128	Down
993	CDC25A	cell division cycle 25A	-4.46	16.66	Down
5364	PLXNB1	plexin B1	-1.362	1.83	Down
79714	CCDC51	coiled-coil domain containing 51	-0.422	1.396	Down
7384	UQCRC1	ubiquinol-cytochrome c reductase core protein 1	-1.126	6.315	Down
10425	ARIH2	ariadne RBR E3 ubiquitin protein ligase 2	-0.292	3.023	Down
25915	NDUFAF3	NADH:ubiquinone oxidoreductase complex assembly factor 3	-1.132	6.238	Down
200942	KLHDC8B	kelch domain containing 8B	-0.674	1.373	Down
387	RHOA	ras homolog family member A	-0.64	2.351	Down
327	APEH	acylaminoacyl-peptide hydrolase	-0.522	1.696	Down
29925	GMPPB	GDP-mannose pyrophosphorylase B	-1.315	10.047	Down
132228	LSMEM2	leucine rich single-pass membrane protein 2	-2.002	13.921	Down
7866	IFRD2	interferon related developmental regulator 2	-1.86	20.116	Down
8372	HYAL3	hyaluronidase 3	-1.222	5.339	Down

8692	HYAL2	hyaluronidase 2	-1.745	8.455	Down
51161	C3orf18	chromosome 3 open reading frame 18	-1.574	4.967	Down
1154	CISH	cytokine inducible SH2 containing protein	-3.117	4.567	Down
7867	MAPKAPK3	MAPK activated protein kinase 3	-2.321	18.06	Down
7873	MANF	mesencephalic astrocyte derived neurotrophic factor	-1.658	9.439	Down
9136	RRP9	ribosomal RNA processing 9, U3 small nucleolar RNA binding protein	-1.841	21.81	Down
1.01E+08	ABHD14A-ACY1	ABHD14A-ACY1 readthrough	-0.828	2.828	Down
95	ACY1	aminoacylase 1	-2.029	10.001	Down
25886	POC1A	POC1 centriolar protein A	-1.285	2.876	Down
211	ALAS1	5'-aminolevulinate synthase 1	-1.11	7.032	Down
11344	TWF2	twinfilin actin binding protein 2	-0.939	7.265	Down
132160	PPM1M	protein phosphatase, Mg2+/Mn2+ dependent 1M	-0.95	3.609	Down
64943	NT5DC2	5'-nucleotidase domain containing 2	-1.702	4.876	Down
26354	GNL3	G protein nucleolar 3	-0.925	5.762	Down
5580	PRKCD	protein kinase C delta	-0.781	2.581	Down
7086	TKT	transketolase	-0.496	1.615	Down
55802	DCP1A	decapping mRNA 1A	-0.566	3.596	Down
55540	IL17RB	interleukin 17 receptor B	-1.353	2.811	Down
58515	SELENOK	selenoprotein K	-1.242	5.666	Down
201626	PDE12	phosphodiesterase 12	-0.84	4.868	Down
378	ARF4	ADP ribosylation factor 4	-1.092	3.991	Down
57415	C3orf14	chromosome 3 open reading frame 14	-2.359	2.708	Down
80145	THOC7	THO complex subunit 7	-0.955	2.545	Down
9861	PSMD6	proteasome 26S subunit, non-ATPase 6	-1.486	26.152	Down
84541	KBTBD8	kelch repeat and BTB domain containing 8	-1.879	16.68	Down
23150	FRMD4B	FERM domain containing 4B	-2.988	8.261	Down
23429	RYBP	RING1 and YY1 binding protein	-0.559	4.664	Down
55164	SHQ1	SHQ1, H/ACA ribonucleoprotein assembly factor	-0.51	1.323	Down

151987	PPP4R2	protein phosphatase 4 regulatory subunit 2	-0.678	2.874	Down
1.01E+08	MIR4444-2	microRNA 4444-2	-1.701	8.069	Down
2632	GBE1	1,4-alpha-glucan branching enzyme 1	-1.048	2.534	Down
25978	CHMP2B	charged multivesicular body protein 2B	-0.55	3.8	Down
1.02E+08	LOC101930420	DNA primase large subunit-like	-1.215	1.887	Down
200894	ARL13B	ADP ribosylation factor like GTPase 13B	-0.802	2.313	Down
84100	ARL6	ADP ribosylation factor like GTPase 6	-0.592	1.372	Down
84864	RIOX2	ribosomal oxygenase 2	-0.862	6.937	Down
56650	CLDND1	claudin domain containing 1	-1.825	14.336	Down
2838	GPR15	G protein-coupled receptor 15	-0.853	1.653	Down
1371	CPOX	coproporphyrinogen oxidase	-1.784	17.063	Down
1.02E+08	HP09053	uncharacterized LOC101929357	-1.574	7.649	Down
84319	CMSS1	cms1 ribosomal small subunit homolog	-1.572	10.398	Down
56954	NIT2	nitrilase family member 2	-0.642	5.511	Down
9868	TOMM70	translocase of outer mitochondrial membrane 70	-0.521	3.276	Down
10342	TFG	trafficking from ER to golgi regulator	-0.732	5.218	Down
54931	TRMT10C	tRNA methyltransferase 10C, mitochondrial RNase P subunit	-0.623	2.295	Down
1E+08	ZBTB11-AS1	ZBTB11 antisense RNA 1	-0.427	1.567	Down
285359	PDCL3P4	PDCL3 pseudogene 4	-0.739	1.667	Down
1.05E+08	LOC105374027	uncharacterized LOC105374027	-2.601	2.735	Down
961	CD47	CD47 molecule	-0.398	1.934	Down
1.02E+08	LINC01215	long intergenic non-protein coding RNA 1215	-1.618	7.405	Down
55081	IFT57	intraflagellar transport 57	-1.59	12.411	Down
11148	HHLA2	HERV-H LTR-associating 2	-2.799	2.954	Down
57650	CIP2A	cellular inhibitor of PP2A	-2.426	22.331	Down
25945	NECTIN3	nectin cell adhesion molecule 3	-1.32	2.985	Down
79413	ZBED2	zinc finger BED-type containing 2	-8.616	85.852	Down
79669	C3orf52	chromosome 3 open reading frame 52	-0.845	2.937	Down

257144	GCSAM	germinal center associated signaling and motility	-0.663	1.557	Down
4345	CD200	CD200 molecule	-1.891	3.568	Down
80218	NAA50	N-alpha-acetyltransferase 50, NatE catalytic subunit	-0.67	2.868	Down
523	ATP6V1A	ATPase H+ transporting V1 subunit A	-0.62	2.84	Down
79691	QTRT2	queuine tRNA-ribosyltransferase accessory subunit 2	-0.467	1.536	Down
8702	B4GALT4	beta-1,4-galactosyltransferase 4	-1.016	5.393	Down
1.01E+08	B4GALT4-AS1	B4GALT4 antisense RNA 1	-1.398	3.411	Down
57514	ARHGAP31	Rho GTPase activating protein 31	-1.808	3.85	Down
55254	TMEM39A	transmembrane protein 39A	-0.477	2.171	Down
941	CD80	CD80 molecule	-2.893	2.757	Down
141	ADPRH	ADP-ribosylarginine hydrolase	-0.897	1.393	Down
10063	COX17	cytochrome c oxidase copper chaperone COX17	-1.715	16.2	Down
116064	LRRC58	leucine rich repeat containing 58	-0.388	2.254	Down
3059	HCLS1	hematopoietic cell-specific Lyn substrate 1	-0.456	1.832	Down
131076	MIX23	mitochondrial matrix import factor 23	-1.719	8.089	Down
1.05E+08	LOC105374071	uncharacterized LOC105374071	-1.306	3.661	Down
83666	PARP9	poly(ADP-ribose) polymerase family member 9	-1.24	4.153	Down
151636	DTX3L	deltex E3 ubiquitin ligase 3L	-0.914	3.632	Down
54625	PARP14	poly(ADP-ribose) polymerase family member 14	-1.461	5.839	Down
10954	PDIA5	protein disulfide isomerase family A member 5	-1.787	9.483	Down
7372	UMPS	uridine monophosphate synthetase	-0.916	5.253	Down
8723	SNX4	sorting nexin 4	-0.656	3.183	Down
84303	CHCHD6	coiled-coil-helix-coiled-coil-helix domain containing 6	-0.95	2.481	Down
4171	MCM2	minichromosome maintenance complex component 2	-1.98	34.557	Down
1.08E+08	LOC107986126	uncharacterized LOC107986126	-1.902	19.437	Down
29927	SEC61A1	SEC61 translocon subunit alpha 1	-0.526	1.712	Down
8607	RUVBL1	RuvB like AAA ATPase 1	-1.397	17.2	Down
60678	EEFSEC	eukaryotic elongation factor, selenocysteine-tRNA specific	-0.603	5.031	Down

2624	GATA2	GATA binding protein 2	-1.42	3.596	Down
6184	RPN1	ribophorin I	-0.856	4.402	Down
7879	RAB7A	RAB7A, member RAS oncogene family	-0.946	4.783	Down
28976	ACAD9	acyl-CoA dehydrogenase family member 9	-1.568	33.479	Down
57501	CFAP92	cilia and flagella associated protein 92 (putative)	-1.31	8.536	Down
57461	ISY1	ISY1 splicing factor homolog	-0.639	2.568	Down
22820	COPG1	COPI coat complex subunit gamma 1	-0.719	4.237	Down
56941	HMCES	5-hydroxymethylcytosine binding, ES cell specific	-0.479	1.641	Down
27032	ATP2C1	ATPase secretory pathway Ca2+ transporting 1	-0.744	7.956	Down
11222	MRPL3	mitochondrial ribosomal protein L3	-1.204	5.426	Down
1.05E+08	LOC105374114	uncharacterized LOC105374114	-1.233	3.887	Down
79876	UBA5	ubiquitin like modifier activating enzyme 5	-0.779	10.266	Down
55573	CDV3	CDV3 homolog	-0.477	2.263	Down
11073	TOPBP1	DNA topoisomerase II binding protein 1	-0.42	1.356	Down
58477	SRPRB	SRP receptor subunit beta	-0.769	2.027	Down
5096	PCCB	propionyl-CoA carboxylase subunit beta	-1.126	11.526	Down
55179	FAIM	Fas apoptotic inhibitory molecule	-1.216	4.068	Down
56945	MRPS22	mitochondrial ribosomal protein S22	-0.673	2.463	Down
9276	COPB2	COPI coat complex subunit beta 2	-0.731	3.175	Down
5922	RASA2	RAS p21 protein activator 2	-0.47	1.44	Down
483	ATP1B3	ATPase Na+/K+ transporting subunit beta 3	-1.524	10.64	Down
54464	XRN1	5'-3' exoribonuclease 1	-0.942	5.925	Down
5359	PLSCR1	phospholipid scramblase 1	-1.399	7.618	Down
51714	SELENOT	selenoprotein T	-0.891	5.279	Down
6478	SIAH2	siah E3 ubiquitin protein ligase 2	-1.702	15.606	Down
29909	GPR171	G protein-coupled receptor 171	-0.92	2.42	Down
170506	DHX36	DEAH-box helicase 36	-0.284	1.652	Down
25976	TIPARP	TCDD inducible poly(ADP-ribose) polymerase	-0.549	1.633	Down

647033	PA2G4P4	proliferation-associated 2G4 pseudogene 4	-1.323	14.596	Down
85476	GFM1	G elongation factor mitochondrial 1	-1.024	6.281	Down
3592	IL12A	interleukin 12A	-1.579	2.191	Down
8706	B3GALNT1	beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)	-1.295	2.636	Down
51068	NMD3	NMD3 ribosome export adaptor	-0.523	1.522	Down
11235	PDCD10	programmed cell death 10	-0.553	1.329	Down
84517	ACTRT3	actin related protein T3	-4.786	11.192	Down
200916	RPL22L1	ribosomal protein L22 like 1	-1.767	11.812	Down
64778	FNDC3B	fibronectin type III domain containing 3B	-0.759	2.124	Down
1.08E+08	LOC107986153		-1.929	3.184	Down
8743	TNFSF10	TNF superfamily member 10	-1.496	4.513	Down
1894	ECT2	epithelial cell transforming 2	-1.517	6.126	Down
86	ACTL6A	actin like 6A	-0.888	4.348	Down
57129	MRPL47	mitochondrial ribosomal protein L47	-1.393	10.447	Down
54165	DCUN1D1	defective in cullin neddylation 1 domain containing 1	-0.581	3.798	Down
55486	PARL	presenilin associated rhomboid like	-0.551	1.957	Down
8893	EIF2B5	eukaryotic translation initiation factor 2B subunit epsilon	-0.497	4.368	Down
1173	AP2M1	adaptor related protein complex 2 subunit mu 1	-0.446	3.247	Down
10195	ALG3	ALG3 alpha-1,3- mannosyltransferase	-0.555	2.024	Down
1.11E+08	EEF1AKMT4	EEF1A lysine methyltransferase 4	-2.013	10.36	Down
1.11E+08	EEF1AKMT4-ECE2	EEF1AKMT4-ECE2 readthrough	-1.99	7.713	Down
5708	PSMD2	proteasome 26S subunit ubiquitin receptor, non-ATPase 2	-1.531	45.835	Down
1981	EIF4G1	eukaryotic translation initiation factor 4 gamma 1	-1.381	8.427	Down
5437	POLR2H	RNA polymerase II, I and III subunit H	-1.469	13.562	Down
9175	MAP3K13	mitogen-activated protein kinase kinase kinase 13	-0.597	1.424	Down
6434	TRA2B	transformer 2 beta homolog	-1.412	14.551	Down
51726	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11	-1.954	30.127	Down
5984	RFC4	replication factor C subunit 4	-1.011	3.583	Down

339929	LPP-AS2	LPP antisense RNA 2	-2.95	3.965	Down
4026	LPP	LIM domain containing preferred translocation partner in lipoma	-1.832	3.615	Down
9076	CLDN1	claudin 1	-2.504	1.591	Down
3556	IL1RAP	interleukin 1 receptor accessory protein	-0.701	2.154	Down
4976	OPA1	OPA1 mitochondrial dynamin like GTPase	-0.32	1.794	Down
152002	XXYLT1	xyloside xylosyltransferase 1	-0.518	1.604	Down
7037	TFRC	transferrin receptor	-1.818	6.058	Down
5130	PCYT1A	phosphate cytidylyltransferase 1A, choline	-1.062	7.308	Down
200933	FBXO45	F-box protein 45	-0.511	2.201	Down
54965	PIGX	phosphatidylinositol glycan anchor biosynthesis class X	-1.082	4.489	Down
1.01E+08	NCBP2-AS1	NCBP2 antisense RNA 1	-0.58	1.437	Down
84223	IQCG	IQ motif containing G	-2.252	8.214	Down
3954	LETM1	leucine zipper and EF-hand containing transmembrane protein 1	-1.006	6.915	Down
401115	C4orf48	chromosome 4 open reading frame 48	-1.329	3.795	Down
339983	NAT8L	N-acetyltransferase 8 like	-1.734	1.379	Down
79155	TNIP2	TNFAIP3 interacting protein 2	-0.9	6.825	Down
6452	SH3BP2	SH3 domain binding protein 2	-1.195	3.348	Down
10227	MFSD10	major facilitator superfamily domain containing 10	-0.457	1.806	Down
8602	NOP14	NOP14 nucleolar protein	-1.142	4.137	Down
3064	HTT	huntingtin	-0.644	1.725	Down
4043	LRPAP1	LDL receptor related protein associated protein 1	-0.385	1.413	Down
348926	FAM86EP	family with sequence similarity 86, member A pseudogene	-0.698	1.439	Down
55646	LYAR	Ly1 antibody reactive	-0.788	1.974	Down
152789	JAKMIP1	janus kinase and microtubule interacting protein 1	-1.418	1.517	Down
80273	GRPEL1	GrpE like 1, mitochondrial	-1.255	11.803	Down
8310	ACOX3	acyl-CoA oxidase 3, pristanoyl	-0.977	5.834	Down
152992	TRMT44	tRNA methyltransferase 44 homolog	-0.73	2.419	Down
56606	SLC2A9	solute carrier family 2 member 9	-1.899	2.903	Down

9948	WDR1	WD repeat domain 1	-1.249	15.42	Down
952	CD38	CD38 molecule	-3.122	15.691	Down
5860	QDPR	quinoid dihydropteridine reductase	-0.587	2.961	Down
51056	LAP3	leucine aminopeptidase 3	-1.59	4.973	Down
166647	ADGRA3	adhesion G protein-coupled receptor A3	-1.366	1.303	Down
1.08E+08	LOC107986265		-0.697	2.158	Down
1665	DHX15	DEAH-box helicase 15	-1.183	13.958	Down
55300	PI4K2B	phosphatidylinositol 4-kinase type 2 beta	-1.043	6.818	Down
1.03E+08	LOC102723733	uncharacterized LOC102723733	-1.146	1.827	Down
3516	RBPJ	recombination signal binding protein for immunoglobulin kappa J region	-0.738	2.3	Down
55276	PGM2	phosphoglucomutase 2	-0.887	7.135	Down
23216	TBC1D1	TBC1 domain family member 1	-0.729	3.1	Down
1.05E+08	LOC105374407		-0.945	1.87	Down
51088	KLHL5	kelch like family member 5	-0.764	2.476	Down
344967	LOC344967	acyl-CoA thioesterase 7 pseudogene	-1.287	1.964	Down
55161	TMEM33	transmembrane protein 33	-0.617	2.83	Down
132789	GNPDA2	glucosamine-6-phosphate deaminase 2	-0.398	1.768	Down
152519	NIPAL1	NIPA like domain containing 1	-2.325	5.929	Down
6443	SGCB	sarcoglycan beta	-0.975	7.969	Down
152579	SCFD2	sec1 family domain containing 2	-2.102	26.718	Down
55858	TMEM165	transmembrane protein 165	-1.449	14.59	Down
10606	PAICS	phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthase	-1.623	8.762	Down
6731	SRP72	signal recognition particle 72	-0.601	4.296	Down
84525	HOPX	HOP homeobox	-2.095	5.01	Down
55236	UBA6	ubiquitin like modifier activating enzyme 6	-0.693	7.122	Down
57050	UTP3	UTP3 small subunit processome component	-0.767	2.495	Down
2926	GRSF1	G-rich RNA sequence binding factor 1	-0.299	1.385	Down

92597	MOB1B	MOB kinase activator 1B	-0.642	2.54	Down
285521	COX18	cytochrome c oxidase assembly factor COX18	-0.396	1.399	Down
441024	MTHFD2L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2 like	-1.089	3.365	Down
4283	CXCL9	C-X-C motif chemokine ligand 9	-5.514	3.464	Down
419	ART3	ADP-ribosyltransferase 3 (inactive)	-7.156	6.298	Down
3627	CXCL10	C-X-C motif chemokine ligand 10	-7.622	13.479	Down
6373	CXCL11	C-X-C motif chemokine ligand 11	-6.074	10.792	Down
53371	NUP54	nucleoporin 54	-0.41	1.719	Down
55752	SEPTIN11	septin 11	-1.193	13.603	Down
306	ANXA3	annexin A3	-2.028	1.326	Down
56978	PRDM8	PR/SET domain 8	-1.792	5.879	Down
3184	HNRNPD	heterogeneous nuclear ribonucleoprotein D	-0.991	7.519	Down
9987	HNRNPDL	heterogeneous nuclear ribonucleoprotein D like	-1.064	8.931	Down
58478	ENOPH1	enolase-phosphatase 1	-0.568	1.977	Down
22872	SEC31A	SEC31 homolog A, COPII coat complex component	-0.372	1.844	Down
51138	COPS4	COP9 signalosome subunit 4	-0.766	3.29	Down
27235	COQ2	coenzyme Q2, polyprenyltransferase	-0.696	1.911	Down
10855	HPSE	heparanase	-1.049	18.068	Down
55008	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6	-1.037	3.158	Down
266812	NAP1L5	nucleosome assembly protein 1 like 5	-1.186	5.656	Down
56916	SMARCAD1	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1	-0.47	1.317	Down
10098	TSPAN5	tetraspanin 5	-0.946	5.234	Down
1977	EIF4E	eukaryotic translation initiation factor 4E	-0.986	5.229	Down
93587	TRMT10A	tRNA methyltransferase 10A	-0.675	3.342	Down
27071	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-1.468	4.041	Down
3015	H2AZ1	H2A.Z variant histone 1	-0.841	5.697	Down
64116	SLC39A8	solute carrier family 39 member 8	-1.056	3.133	Down

4790	NFKB1	nuclear factor kappa B subunit 1	-1.496	7.703	Down
1.03E+08	LOC102723704	uncharacterized LOC102723704	-0.767	4.751	Down
7323	UBE2D3	ubiquitin conjugating enzyme E2 D3	-0.623	2.737	Down
133308	SLC9B2	solute carrier family 9 member B2	-0.358	1.427	Down
27068	PPA2	inorganic pyrophosphatase 2	-0.716	1.604	Down
57117	INTS12	integrator complex subunit 12	-0.518	1.397	Down
79807	GSTCD	glutathione S-transferase C-terminal domain containing	-0.853	4.202	Down
9255	AIMP1	aminoacyl tRNA synthetase complex interacting multifunctional protein 1	-0.325	1.304	Down
54433	GAR1	GAR1 ribonucleoprotein	-1.568	11.537	Down
79071	ELOVL6	ELOVL fatty acid elongase 6	-1.864	5.272	Down
132720	FAM241A	family with sequence similarity 241 member A	-2.192	7.473	Down
92610	TIFA	TRAF interacting protein with forkhead associated domain	-1.325	5.713	Down
80216	ALPK1	alpha kinase 1	-0.751	2.001	Down
55345	ZGRF1	zinc finger GRF-type containing 1	-0.897	1.573	Down
817	CAMK2D	calcium/calmodulin dependent protein kinase II delta	-0.918	3.595	Down
9871	SEC24D	SEC24 homolog D, COPII coat complex component	-0.956	5.357	Down
79931	TNIP3	TNFAIP3 interacting protein 3	-3.698	10.048	Down
5393	EXOSC9	exosome component 9	-0.773	8.014	Down
890	CCNA2	cyclin A2	-0.921	4.421	Down
59067	IL21	interleukin 21	-5.449	16.016	Down
1.01E+08	IL21-AS1	IL21 antisense RNA 1	-2.502	3.284	Down
2247	FGF2	fibroblast growth factor 2	-1.562	1.511	Down
10733	PLK4	polo like kinase 4	-0.935	2.07	Down
55132	LARP1B	La ribonucleoprotein 1B	-0.819	4.698	Down
54510	PCDH18	protocadherin 18	-3.989	2.072	Down
25819	NOCT	nocturnin	-2.7	9.408	Down
80155	NAA15	N-alpha-acetyltransferase 15, NatA auxiliary subunit	-1.384	26.406	Down
3600	IL15	interleukin 15	-1.48	3.257	Down

8821	INPP4B	inositol polyphosphate-4-phosphatase type II B	-0.824	1.669	Down
84640	USP38	ubiquitin specific peptidase 38	-0.384	2.025	Down
1E+08	SMARCA5-AS1	SMARCA5 antisense RNA 1	-0.651	1.513	Down
8467	SMARCA5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5	-0.534	3.144	Down
441046	GUSBP5	GUSB pseudogene 5	-0.937	1.569	Down
10393	ANAPC10	anaphase promoting complex subunit 10	-0.741	2.976	Down
6059	ABCE1	ATP binding cassette subfamily E member 1	-1.062	6.161	Down
54726	OTUD4	OTU deubiquitinase 4	-0.682	3.666	Down
11157	LSM6	LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.89	3.711	Down
84068	SLC10A7	solute carrier family 10 member 7	-0.614	3.397	Down
5188	GATB	glutamyl-tRNA amidotransferase subunit B	-0.678	1.747	Down
54553	MIR4453HG	MIR4453 host gene	-0.672	1.449	Down
27236	ARFIP1	ADP ribosylation factor interacting protein 1	-0.459	1.338	Down
84057	MND1	meiotic nuclear divisions 1	-2.462	1.927	Down
5356	PLRG1	pleiotropic regulator 1	-0.778	4.318	Down
201725	C4orf46	chromosome 4 open reading frame 46	-1.686	17.637	Down
5481	PPID	peptidylprolyl isomerase D	-0.6	4.373	Down
55319	TMA16	translation machinery associated 16 homolog	-1.205	8.107	Down
23520	ANP32C	acidic nuclear phosphoprotein 32 family member C	-1.2	2.823	Down
6307	MSMO1	methylsterol monooxygenase 1	-1.116	5.347	Down
9848	MFAP3L	microfibril associated protein 3 like	-1.377	4.52	Down
1635	DCTD	dCMP deaminase	-0.561	1.867	Down
201965	RWDD4	RWD domain containing 4	-0.549	4.25	Down
3660	IRF2	interferon regulatory factor 2	-0.526	2.112	Down
1.05E+08	LINC02365	long intergenic non-protein coding RNA 2365	-5.256	7.491	Down
836	CASP3	caspase 3	-1.169	6.38	Down
79682	CENPU	centromere protein U	-2.256	17.677	Down
291	SLC25A4	solute carrier family 25 member 4	-0.748	2.085	Down

6389	SDHA	succinate dehydrogenase complex flavoprotein subunit A	-0.307	1.32	Down
57491	AHRR	aryl hydrocarbon receptor repressor	-0.971	3.574	Down
11336	EXOC3	exocyst complex component 3	-0.721	3.836	Down
9319	TRIP13	thyroid hormone receptor interactor 13	-2.961	20.775	Down
7015	TERT	telomerase reverse transcriptase	-3.055	4.443	Down
81037	CLPTM1L	CLPTM1 like	-0.485	1.565	Down
64979	MRPL36	mitochondrial ribosomal protein L36	-0.765	2.474	Down
4726	NDUFS6	NADH:ubiquinone oxidoreductase subunit S6	-1.335	10.859	Down
54888	NSUN2	NOP2/Sun RNA methyltransferase 2	-0.896	13.109	Down
79072	FASTKD3	FAST kinase domains 3	-0.463	2.407	Down
134145	ATPSCKMT	ATP synthase c subunit lysine N-methyltransferase	-0.981	3.834	Down
22948	CCT5	chaperonin containing TCP1 subunit 5	-1.977	24.405	Down
1.02E+08	MARCHF6-DT	MARCHF6 divergent transcript	-1.042	1.32	Down
651746	ANKRD33B	ankyrin repeat domain 33B	-1.289	1.497	Down
1.07E+08	SNORA105A	small nucleolar RNA, H/ACA box 105A	-1.787	14.053	Down
55322	C5orf22	chromosome 5 open reading frame 22	-0.478	3.19	Down
51663	ZFR	zinc finger RNA binding protein	-0.354	3.817	Down
10923	SUB1	SUB1 regulator of transcription	-1.124	4.417	Down
6897	TARS1	threonyl-tRNA synthetase 1	-2.036	3.141	Down
5810	RAD1	RAD1 checkpoint DNA exonuclease	-0.612	5.821	Down
55299	BRIX1	biogenesis of ribosomes BRX1	-1.346	15.66	Down
9631	NUP155	nucleoporin 155	-0.663	2.721	Down
55100	WDR70	WD repeat domain 70	-0.587	2.046	Down
5734	PTGER4	prostaglandin E receptor 4	-2.82	62.185	Down
5019	OXCT1	3-oxoacid CoA-transferase 1	-1.04	13.202	Down
1.01E+08	OXCT1-AS1	OXCT1 antisense RNA 1	-1.186	3.016	Down
3157	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1	-2.392	26.675	Down
10605	PAIP1	poly(A) binding protein interacting protein 1	-0.347	1.704	Down

10884	MRPS30	mitochondrial ribosomal protein S30	-0.479	4.53	Down
3672	ITGA1	integrin subunit alpha 1	-1.158	1.809	Down
53918	PELO	pelota mRNA surveillance and ribosome rescue factor	-0.545	1.858	Down
3001	GZMA	granzyme A	-2.302	5.512	Down
23517	MTREX	Mtr4 exosome RNA helicase	-0.924	6.967	Down
8611	PLPP1	phospholipid phosphatase 1	-1.53	6.871	Down
379013	RNF138P1	ring finger protein 138 pseudogene 1	-0.768	2.195	Down
153129	SLC38A9	solute carrier family 38 member 9	-0.412	1.521	Down
166968	MIER3	MIER family member 3	-0.478	3.153	Down
55789	DEPDC1B	DEP domain containing 1B	-1.518	1.695	Down
91942	NDUFAF2	NADH:ubiquinone oxidoreductase complex assembly factor 2	-1.045	4.483	Down
643155	SMIM15	small integral membrane protein 15	-0.855	8.003	Down
1.02E+08	SMIM15-AS1	SMIM15 antisense RNA 1	-0.776	2.518	Down
3796	KIF2A	kinesin family member 2A	-0.525	2.37	Down
27292	DIMT1	DIM1 rRNA methyltransferase and ribosome maturation factor	-0.307	1.452	Down
51194	IPO11	importin 11	-1.536	13.471	Down
1.01E+08	IPO11-LRRC70	IPO11-LRRC70 readthrough	-1.247	6.708	Down
10283	CWC27	CWC27 spliceosome associated cyclophilin	-1.142	11.208	Down
57486	NLN	neurolysin	-1.913	12.938	Down
891	CCNB1	cyclin B1	-1.174	4.254	Down
92259	MRPS36	mitochondrial ribosomal protein S36	-0.798	3.472	Down
1022	CDK7	cyclin dependent kinase 7	-1.111	16.442	Down
1.02E+08	AK6	adenylate kinase 6	-1.348	10.61	Down
728340	GTF2H2C	GTF2H2 family member C	-1.262	9.793	Down
728492	SERF1B	small EDRK-rich factor 1B	-0.591	2.025	Down
6607	SMN2	survival of motor neuron 2, centromeric	-1.191	3.139	Down
653238	GTF2H2B	general transcription factor IIH subunit 2B (pseudogene)	-1.042	10.146	Down
8293	SERF1A	small EDRK-rich factor 1A	-0.604	2.057	Down

6606	SMN1	survival of motor neuron 1, telomeric	-1.191	3.6	Down
2966	GTF2H2	general transcription factor IIH subunit 2	-1.227	11.023	Down
64087	MCCC2	methylcrotonyl-CoA carboxylase subunit 2	-1.379	10.627	Down
23107	MRPS27	mitochondrial ribosomal protein S27	-0.429	1.396	Down
84135	UTP15	UTP15 small subunit processome component	-1.116	9.112	Down
8507	ENC1	ectodermal-neural cortex 1	-2.473	9.724	Down
26049	FAM169A	family with sequence similarity 169 member A	-0.658	4.247	Down
3156	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase	-0.997	15.339	Down
8546	AP3B1	adaptor related protein complex 3 subunit beta 1	-0.65	7.819	Down
411	ARSB	arylsulfatase B	-1.654	4.713	Down
9456	HOMER1	homer scaffold protein 1	-1.731	10.656	Down
644936	LOC644936	actin beta pseudogene	-1.992	4.207	Down
441089	CRSP8P	mediator complex subunit 27 pseudogene	-1.415	7.073	Down
153339	TMEM167A	transmembrane protein 167A	-0.519	1.901	Down
7518	XRCC4	X-ray repair cross complementing 4	-1.063	3.577	Down
902	CCNH	cyclin H	-0.318	1.422	Down
10622	POLR3G	RNA polymerase III subunit G	-1.391	7.298	Down
116068	LYSMD3	LysM domain containing 3	-0.441	1.336	Down
84250	SLF1	SMC5-SMC6 complex localization factor 1	-0.64	2.01	Down
22936	ELL2	elongation factor for RNA polymerase II 2	-2.374	35.514	Down
1.08E+08	LOC107986363	uncharacterized LOC107986363	-1.636	1.567	Down
55781	RIOK2	RIO kinase 2	-0.673	4.436	Down
345757	FAM174A	family with sequence similarity 174 member A	-0.812	3.516	Down
7903	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	-0.638	1.689	Down
1.08E+08	LOC107986437	uncharacterized LOC107986437	-1.203	2.187	Down
134430	WDR36	WD repeat domain 36	-0.902	4.996	Down
6728	SRP19	signal recognition particle 19	-0.788	3.342	Down
5229	PGGT1B	protein geranylgeranyltransferase type I subunit beta	-0.608	3.493	Down

25816	TNFAIP8	TNF alpha induced protein 8	-0.984	7.562	Down
1.03E+08	LOC102723444	uncharacterized LOC102723444	-2.143	1.779	Down
153443	SRFBP1	serum response factor binding protein 1	-1.255	17.505	Down
1456	CSNK1G3	casein kinase 1 gamma 3	-0.621	6.649	Down
51808	PHAX	phosphorylated adaptor for RNA export	-0.601	3.076	Down
4001	LMNB1	lamin B1	-0.627	1.309	Down
115123	MARCHF3	membrane associated ring-CH-type finger 3	-1.829	4.744	Down
51015	ISOC1	isochorismatase domain containing 1	-0.782	2.225	Down
1.05E+08	LOC105379174	uncharacterized LOC105379174	-6.177	6.192	Down
3562	IL3	interleukin 3	-7.251	15.889	Down
1437	CSF2	colony stimulating factor 2	-8.076	17.212	Down
8974	P4HA2	prolyl 4-hydroxylase subunit alpha 2	-2.732	5.422	Down
3659	IRF1	interferon regulatory factor 1	-2.165	9.761	Down
3567	IL5	interleukin 5	-7.074	5.858	Down
1.02E+08	TH2LCRR	T helper type 2 locus control region associated RNA	-0.942	1.559	Down
3596	IL13	interleukin 13	-10.44	12.085	Down
3565	IL4	interleukin 4	-6.759	12.374	Down
1.05E+08	LOC105379176	uncharacterized LOC105379176	-6.271	9.347	Down
645121	CCNI2	cyclin I family member 2	-1.453	6.92	Down
23176	SEPTIN8	septin 8	-2.039	15.272	Down
134549	SHROOM1	shroom family member 1	-2.793	2.26	Down
2661	GDF9	growth differentiation factor 9	-1.413	5.5	Down
27089	UQCRQ	ubiquinol-cytochrome c reductase complex III subunit VII	-1.448	6.445	Down
3308	HSPA4	heat shock protein family A (Hsp70) member 4	-1.344	26.887	Down
7416	VDAC1	voltage dependent anion channel 1	-1.933	20.129	Down
5515	PPP2CA	protein phosphatase 2 catalytic subunit alpha	-0.771	4.304	Down
1.01E+08	MIR3661	microRNA 3661	-0.869	8.073	Down
91368	CDKN2AIPNL	CDKN2A interacting protein N-terminal like	-0.705	1.325	Down

51128	SAR1B	secretion associated Ras related GTPase 1B	-0.525	3.645	Down
10802	SEC24A	SEC24 homolog A, COPII coat complex component	-1.146	11.989	Down
1.01E+08	PITX1-AS1	PITX1 antisense RNA 1	-0.586	1.895	Down
9555	MACROH2A1	macroH2A.1 histone	-0.738	3.477	Down
3578	IL9	interleukin 9	-9.544	7.742	Down
51307	FAM53C	family with sequence similarity 53 member C	-0.375	1.879	Down
51308	REEP2	receptor accessory protein 2	-1.74	2.012	Down
1958	EGR1	early growth response 1	-5.435	40.848	Down
2107	ETF1	eukaryotic translation termination factor 1	-1.62	13.796	Down
3313	HSPA9	heat shock protein family A (Hsp70) member 9	-1.575	27.688	Down
1.05E+08	LOC105379193	uncharacterized LOC105379193	-1.584	23.439	Down
9782	MATR3	matrin 3	-0.447	5.465	Down
724102	SNHG4	small nucleolar RNA host gene 4	-0.77	1.745	Down
51237	MZB1	marginal zone B and B1 cell specific protein	-3.38	4.781	Down
389333	PROB1	proline rich basic protein 1	-3.451	18.045	Down
202051	SPATA24	spermatogenesis associated 24	-1.914	6.173	Down
202052	DNAJC18	DnaJ heat shock protein family (Hsp40) member C18	-1.678	10.519	Down
641700	ECSCR	endothelial cell surface expressed chemotaxis and apoptosis regulator	-3.338	2.358	Down
5201	PFDN1	prefoldin subunit 1	-0.485	1.574	Down
1839	HBEGF	heparin binding EGF like growth factor	-3.024	4.72	Down
10011	SRA1	steroid receptor RNA activator 1	-1.707	10.508	Down
113829	SLC35A4	solute carrier family 35 member A4	-0.783	3.925	Down
3035	HARS1	histidyl-tRNA synthetase 1	-1.014	9.508	Down
1729	DIAPH1	diaphanous related formin 1	-0.364	1.407	Down
8841	HDAC3	histone deacetylase 3	-0.274	1.458	Down
10007	GNPDA1	glucosamine-6-phosphate deaminase 1	-0.665	3.572	Down
81848	SPRY4	sprouty RTK signaling antagonist 4	-6.801	6.718	Down
51520	LARS1	leucyl-tRNA synthetase 1	-0.832	6.342	Down

10915	TCERG1	transcription elongation regulator 1	-0.735	2.502	Down
6949	TCOF1	treacle ribosome biogenesis factor 1	-0.941	1.334	Down
55696	RBM22	RNA binding motif protein 22	-0.525	3.124	Down
10318	TNIP1	TNFAIP3 interacting protein 1	-0.882	3.873	Down
309	ANXA6	annexin A6	-0.555	1.831	Down
475	ATOX1	antioxidant 1 copper chaperone	-0.895	2.918	Down
1.01E+08	LOC100652758	uncharacterized LOC100652758	-0.884	3.224	Down
10146	G3BP1	G3BP stress granule assembly factor 1	-1.064	4.9	Down
55568	GALNT10	polypeptide N-acetylgalactosaminyltransferase 10	-0.413	1.642	Down
1.08E+08	LOC107986465	uncharacterized LOC107986465	-1.636	3.834	Down
25929	GEMIN5	gem nuclear organelle associated protein 5	-0.801	4.544	Down
29093	MRPL22	mitochondrial ribosomal protein L22	-1.097	5.736	Down
84868	HAVCR2	hepatitis A virus cellular receptor 2	-1.112	3.679	Down
408263	FNDC9	fibronectin type III domain containing 9	-3.84	3.193	Down
348938	NIPAL4	NIPA like domain containing 4	-2.579	2.499	Down
54974	THG1L	tRNA-histidine guanylyltransferase 1 like	-0.335	1.379	Down
153830	RNF145	ring finger protein 145	-0.392	1.341	Down
3593	IL12B	interleukin 12B	-9.734	5.37	Down
7265	TTC1	tetratricopeptide repeat domain 1	-0.828	2.817	Down
9232	PTTG1	PTTG1 regulator of sister chromatid separation, securin	-1.775	14.335	Down
1.07E+08	MIR3142HG	MIR3142 host gene	-2.326	6.822	Down
406938	MIR146A	microRNA 146a	-2.83	2.206	Down
3161	HMMR	hyaluronan mediated motility receptor	-3.211	4.981	Down
5917	RARS1	arginyl-tRNA synthetase 1	-1.376	14.015	Down
79646	PANK3	pantothenate kinase 3	-0.49	1.64	Down
54908	SPDL1	spindle apparatus coiled-coil protein 1	-0.625	2.692	Down
1794	DOCK2	dedicator of cytokinesis 2	-0.588	2.364	Down
133874	C5orf58	chromosome 5 open reading frame 58	-0.983	2.902	Down

3937	LCP2	lymphocyte cytosolic protein 2	-1.024	3.536	Down
1E+08	LOC100128059	uncharacterized LOC100128059	-4.197	5.019	Down
51121	RPL26L1	ribosomal protein L26 like 1	-1.468	6.346	Down
8992	ATP6V0E1	ATPase H+ transporting V0 subunit e1	-0.617	1.597	Down
662	BNIP1	BCL2 interacting protein 1	-1.41	6.911	Down
8614	STC2	stanniocalcin 2	-1.561	1.338	Down
80315	CPEB4	cytoplasmic polyadenylation element binding protein 4	-1.205	20.773	Down
94081	SFXN1	sideroflexin 1	-1.229	7.744	Down
3274	HRH2	histamine receptor H2	-2.991	18.888	Down
51491	NOP16	NOP16 nucleolar protein	-1.579	12.755	Down
1212	CLTB	clathrin light chain B	-0.896	7.225	Down
23197	FAF2	Fas associated factor family member 2	-0.818	8.123	Down
114787	GPRIN1	G protein regulated inducer of neurite outgrowth 1	-2.216	5.173	Down
26262	TSPAN17	tetraspanin 17	-1.781	38.199	Down
2264	FGFR4	fibroblast growth factor receptor 4	-2.095	2.555	Down
27166	PRELID1	PRELI domain containing 1	-1.428	7.971	Down
83463	MXD3	MAX dimerization protein 3	-1.355	7.533	Down
10960	LMAN2	lectin, mannose binding 2	-0.624	1.669	Down
2161	F12	coagulation factor XII	-3.938	5.775	Down
80758	PRR7	proline rich 7, synaptic	-1.201	4.224	Down
1627	DBN1	drebrin 1	-2.91	9.851	Down
9260	PDLIM7	PDZ and LIM domain 7	-0.902	1.86	Down
51428	DDX41	DEAD-box helicase 41	-0.819	5.371	Down
54732	TMED9	transmembrane p24 trafficking protein 9	-0.924	6.345	Down
11285	B4GALT7	beta-1,4-galactosyltransferase 7	-0.499	1.524	Down
23138	N4BP3	NEDD4 binding protein 3	-0.959	2.575	Down
64777	RMND5B	required for meiotic nuclear division 5 homolog B	-0.879	6.556	Down
55651	NHP2	NHP2 ribonucleoprotein	-1.736	9.653	Down

3182	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	-1.836	30.365	Down
85007	PHYKPL	5-phosphohydroxy-L-lysine phospho-lyase	-0.452	3.207	Down
3187	HNRNPH1	heterogeneous nuclear ribonucleoprotein H1	-0.539	2.051	Down
821	CANX	calnexin	-0.478	2.406	Down
8878	SQSTM1	sequestosome 1	-0.647	2.861	Down
3662	IRF4	interferon regulatory factor 4	-4.632	8.217	Down
55770	EXOC2	exocyst complex component 2	-0.68	6.081	Down
135458	HUS1B	HUS1 checkpoint clamp component B	-2.697	3.057	Down
2762	GMDS	GDP-mannose 4,6-dehydratase	-0.975	7.825	Down
4835	NQO2	N-ribosyldihydronicotinamide:quinone reductase 2	-0.81	3.242	Down
7280	TUBB2A	tubulin beta 2A class IIa	-2.902	13.17	Down
347733	TUBB2B	tubulin beta 2B class IIb	-2.662	11.682	Down
221749	PXDC1	PX domain containing 1	-1.649	2.499	Down
10799	RPP40	ribonuclease P/MRP subunit p40	-1.579	3.984	Down
57128	LYRM4	LYR motif containing 4	-1.013	1.544	Down
10667	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	-0.955	3.037	Down
285782	CAGE1	cancer antigen 1	-2.072	1.912	Down
83732	RIOK1	RIO kinase 1	-1.311	11.093	Down
654	BMP6	bone morphogenetic protein 6	-0.885	2.119	Down
1.01E+08	BLOC1S5-TXNDC5	BLOC1S5-TXNDC5 readthrough (NMD candidate)	-1.223	10.097	Down
81567	TXNDC5	thioredoxin domain containing 5	-1.344	12.903	Down
9521	EEF1E1	eukaryotic translation elongation factor 1 epsilon 1	-1.492	6.831	Down
2651	GCNT2	glucosaminyl (N-acetyl) transferase 2 (I blood group)	-0.887	1.338	Down
55003	PAK1IP1	PAK1 interacting protein 1	-1.728	9.147	Down
4117	MAK	male germ cell associated kinase	-1.038	2.486	Down
221710	SMIM13	small integral membrane protein 13	-0.885	2.681	Down
4739	NEDD9	neural precursor cell expressed, developmentally down-regulated 9	-1.086	5.697	Down
1.12E+08	LOC112267953		-1.029	2.818	Down

3096	HIVEP1	HIVEP zinc finger 1	-0.952	2.039	Down
51406	NOL7	nucleolar protein 7	-1.097	11.017	Down
63933	MCUR1	mitochondrial calcium uniporter regulator 1	-0.58	5.082	Down
1.08E+08	LOC107986571	uncharacterized LOC107986571	-1.177	2.517	Down
9308	CD83	CD83 molecule	-1.501	1.897	Down
2766	GMPR	guanosine monophosphate reductase	-1.356	1.463	Down
6310	ATXN1	ataxin 1	-0.795	1.741	Down
9972	NUP153	nucleoporin 153	-0.754	3.488	Down
1.05E+08	NUP153-AS1	NUP153 antisense RNA 1	-1.215	10.226	Down
1871	E2F3	E2F transcription factor 3	-0.703	2.419	Down
54901	CDKAL1	CDK5 regulatory subunit associated protein 1 like 1	-0.845	6.013	Down
1.08E+08	LOC107986578	uncharacterized LOC107986578	-0.997	2.341	Down
57380	MRS2	magnesium transporter MRS2	-0.498	2.25	Down
51567	TDP2	tyrosyl-DNA phosphodiesterase 2	-0.39	1.613	Down
51053	GMNN	geminin DNA replication inhibitor	-1.68	9.852	Down
8418	CMAHP	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene	-1.727	7.416	Down
10385	BTN2A2	butyrophilin subfamily 2 member A2	-1.504	6.204	Down
29777	ABT1	activator of basal transcription 1	-0.453	1.346	Down
64288	ZSCAN31	zinc finger and SCAN domain containing 31	-1.044	2.226	Down
3134	HLA-F	major histocompatibility complex, class I, F	-0.826	5.99	Down
3105	HLA-A	major histocompatibility complex, class I, A	-0.598	2.974	Down
30834	POLR1H	RNA polymerase I subunit H	-0.728	1.957	Down
6992	PPP1R11	protein phosphatase 1 regulatory inhibitor subunit 11	-0.798	3.564	Down
7726	TRIM26	tripartite motif containing 26	-0.596	2.665	Down
80742	PRR3	proline rich 3	-0.615	4.167	Down
23	ABCF1	ATP binding cassette subfamily F member 1	-1.247	5.31	Down
8449	DHX16	DEAH-box helicase 16	-0.681	3.774	Down
11270	NRM	nurim	-0.476	1.454	Down

203068	TUBB	tubulin beta class I	-1.985	50.232	Down
10211	FLOT1	flotillin 1	-1.003	5.293	Down
1.05E+08	IER3-AS1	IER3 antisense RNA 1	-3.347	10.025	Down
8870	IER3	immediate early response 3	-3.575	9.13	Down
2968	GTF2H4	general transcription factor IIH subunit 4	-1.115	11.61	Down
3106	HLA-B	major histocompatibility complex, class I, B	-0.569	3.527	Down
4277	MICB	MHC class I polypeptide-related sequence B	-0.835	4.815	Down
1.01E+08	ATP6V1G2-DDX39B	ATP6V1G2-DDX39B readthrough (NMD candidate)	-0.487	2.259	Down
7919	DDX39B	DExD-box helicase 39B	-0.488	2.278	Down
4049	LTA	lymphotoxin alpha	-5.361	47.603	Down
7124	TNF	tumor necrosis factor	-5.411	11.026	Down
4050	LTB	lymphotoxin beta	-1.066	4.957	Down
259197	NCR3	natural cytotoxicity triggering receptor 3	-3.164	6.657	Down
7917	BAG6	BAG cochaperone 6	-0.936	12.955	Down
55937	APOM	apolipoprotein M	-0.828	4.013	Down
1460	CSNK2B	casein kinase 2 beta	-0.794	3.686	Down
1192	CLIC1	chloride intracellular channel 1	-1.684	18.298	Down
7407	VARS1	valyl-tRNA synthetase 1	-2.026	28.397	Down
57819	LSM2	LSM2 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.997	3.374	Down
3303	HSPA1A	heat shock protein family A (Hsp70) member 1A	-0.531	1.673	Down
3304	HSPA1B	heat shock protein family A (Hsp70) member 1B	-0.547	1.482	Down
629	CFB	complement factor B	-4.358	3.963	Down
7936	NELFE	negative elongation factor complex member E	-0.868	3.566	Down
6499	SKIC2	SKI2 subunit of superkiller complex	-0.379	1.989	Down
6891	TAP2	transporter 2, ATP binding cassette subfamily B member	-2.227	34.614	Down
5696	PSMB8	proteasome 20S subunit beta 8	-1.548	8.971	Down
1.01E+08	PSMB8-AS1	PSMB8 antisense RNA 1 (head to head)	-1.444	10.199	Down
6890	TAP1	transporter 1, ATP binding cassette subfamily B member	-2.798	28.991	Down

5698	PSMB9	proteasome 20S subunit beta 9	-1.518	12.78	Down
7922	SLC39A7	solute carrier family 39 member 7	-0.421	2.274	Down
7923	HSD17B8	hydroxysteroid 17-beta dehydrogenase 8	-0.695	1.678	Down
6015	RING1	ring finger protein 1	-0.569	3.661	Down
9277	WDR46	WD repeat domain 46	-1.416	14.197	Down
10471	PFDN6	prefoldin subunit 6	-1.459	10.331	Down
6892	TAPBP	TAP binding protein	-1.401	11.587	Down
1616	DAXX	death domain associated protein	-0.348	3.419	Down
3833	KIFC1	kinesin family member C1	-2.241	4.499	Down
578	BAK1	BCL2 antagonist/killer 1	-1.484	9.053	Down
84300	UQCC2	ubiquinol-cytochrome c reductase complex assembly factor 2	-1.271	3.748	Down
3159	HMGA1	high mobility group AT-hook 1	-0.827	3.187	Down
6631	SNRPC	small nuclear ribonucleoprotein polypeptide C	-1.075	4.936	Down
6732	SRPK1	SRSF protein kinase 1	-1.024	15.793	Down
389384	BNIP5	BCL2 interacting protein 5	-4.582	3.012	Down
51513	ETV7	ETS variant transcription factor 7	-4.016	15.376	Down
222658	KCTD20	potassium channel tetramerization domain containing 20	-0.626	5.001	Down
6428	SRSF3	serine and arginine rich splicing factor 3	-1.658	19.806	Down
1.01E+08	PANDAR	promoter of CDKN1A antisense DNA damage activated RNA	-1.754	4.107	Down
1026	CDKN1A	cyclin dependent kinase inhibitor 1A	-1.952	4.421	Down
57699	CPNE5	copine 5	-2.119	2.321	Down
51645	PPIL1	peptidylprolyl isomerase like 1	-1.464	11.471	Down
221468	TMEM217	transmembrane protein 217	-1.254	4.485	Down
55633	TBC1D22B	TBC1 domain family member 22B	-0.503	3.416	Down
1.08E+08	LOC107986531	uncharacterized LOC107986531	-0.809	1.423	Down
23070	CMTR1	cap methyltransferase 1	-0.914	5.156	Down
154467	CCDC167	coiled-coil domain containing 167	-1.465	6.707	Down
2739	GLO1	glyoxalase I	-0.785	2.837	Down

8645	KCNK5	potassium two pore domain channel subfamily K member 5	-3.782	25.711	Down
4337	MOCS1	molybdenum cofactor synthesis 1	-1.076	1.435	Down
57497	LRFN2	leucine rich repeat and fibronectin type III domain containing 2	-3.721	2.224	Down
79865	TREML2	triggering receptor expressed on myeloid cells like 2	-2.927	7.52	Down
116113	FOXP4	forkhead box P4	-1.894	6.372	Down
1E+08	TOMM6	translocase of outer mitochondrial membrane 6	-0.851	2.623	Down
25862	USP49	ubiquitin specific peptidase 49	-1.038	6.842	Down
9477	MED20	mediator complex subunit 20	-1.628	13.966	Down
705	BYSL	bystin like	-3.505	37.122	Down
55173	MRPS10	mitochondrial ribosomal protein S10	-0.73	2.827	Down
285855	RPL7L1	ribosomal protein L7 like 1	-0.627	2.107	Down
88745	RRP36	ribosomal RNA processing 36	-1.002	9.644	Down
6722	SRF	serum response factor	-1.372	10.004	Down
10591	DNPH1	2'-deoxynucleoside 5'-phosphate N-hydrolase 1	-1.036	2.366	Down
84630	TTBK1	tau tubulin kinase 1	-5.3	3.954	Down
93643	TJAP1	tight junction associated protein 1	-0.38	1.476	Down
9533	POLR1C	RNA polymerase I and III subunit C	-1.206	7.526	Down
57510	XPO5	exportin 5	-1.377	14.197	Down
9587	MAD2L1BP	MAD2L1 binding protein	-0.51	1.825	Down
221421	RSPH9	radial spoke head component 9	-0.979	4.26	Down
55168	MRPS18A	mitochondrial ribosomal protein S18A	-1.046	5.275	Down
7422	VEGFA	vascular endothelial growth factor A	-1.246	1.977	Down
64928	MRPL14	mitochondrial ribosomal protein L14	-1.577	6.693	Down
55362	TMEM63B	transmembrane protein 63B	-1.332	4.047	Down
2030	SLC29A1	solute carrier family 29 member 1 (Augustine blood group)	-3.441	28.512	Down
3326	HSP90AB1	heat shock protein 90 alpha family class B member 1	-2.095	28.12	Down
347734	SLC35B2	solute carrier family 35 member B2	-0.886	4.207	Down
4794	NFKBIE	NFKB inhibitor epsilon	-1.822	8.443	Down

988	CDC5L	cell division cycle 5 like	-0.603	5.815	Down
22875	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4	-0.487	1.671	Down
10231	RCAN2	regulator of calcineurin 2	-3.409	3.349	Down
23607	CD2AP	CD2 associated protein	-0.655	4.649	Down
55166	CENPQ	centromere protein Q	-1.043	2.058	Down
3605	IL17A	interleukin 17A	-5.912	4.259	Down
112744	IL17F	interleukin 17F	-7.507	2.87	Down
4172	MCM3	minichromosome maintenance complex component 3	-0.346	1.353	Down
2941	GSTA4	glutathione S-transferase alpha 4	-2.1	2.666	Down
9532	BAG2	BAG cochaperone 2	-1.081	5.633	Down
5558	PRIM2	DNA primase subunit 2	-0.901	4.706	Down
7803	PTP4A1	protein tyrosine phosphatase 4A1	-0.423	1.662	Down
115004	CGAS	cyclic GMP-AMP synthase	-2.243	6.177	Down
135228	CD109	CD109 molecule	-1.165	2.193	Down
1347	COX7A2	cytochrome c oxidase subunit 7A2	-0.681	1.641	Down
7272	TTK	TTK protein kinase	-2.243	5.847	Down
90025	UBE3D	ubiquitin protein ligase E3D	-0.66	1.77	Down
51167	CYB5R4	cytochrome b5 reductase 4	-0.487	4.754	Down
57231	SNX14	sorting nexin 14	-0.377	1.511	Down
10492	SYNCRIP	synaptotagmin binding cytoplasmic RNA interacting protein	-1.168	7.04	Down
8732	RNGTT	RNA guanylyltransferase and 5'-phosphatase	-0.542	1.97	Down
135293	PM20D2	peptidase M20 domain containing 2	-0.534	3.561	Down
29078	NDUFAF4	NADH:ubiquinone oxidoreductase complex assembly factor 4	-1.118	3.847	Down
253714	MMS22L	MMS22 like, DNA repair protein	-0.531	1.598	Down
51805	COQ3	coenzyme Q3, methyltransferase	-1.471	12.148	Down
892	CCNC	cyclin C	-0.945	3.637	Down
6492	SIM1	SIM bHLH transcription factor 1	-3.222	1.53	Down
10973	ASCC3	activating signal cointegrator 1 complex subunit 3	-1.277	11.801	Down

5550	PREP	prolyl endopeptidase	-0.388	2.25	Down
639	PRDM1	PR/SET domain 1	-1.936	7.163	Down
57673	BEND3	BEN domain containing 3	-1.739	9.434	Down
55084	SOBP	sine oculis binding protein homolog	-2.439	2.735	Down
8763	CD164	CD164 molecule	-0.549	1.423	Down
6610	SMPD2	sphingomyelin phosphodiesterase 2	-0.594	2.276	Down
262	AMD1	adenosylmethionine decarboxylase 1	-1.415	14.375	Down
112495	GTF3C6	general transcription factor IIIC subunit 6	-1.589	19.357	Down
84154	RPF2	ribosome production factor 2 homolog	-1.425	4.511	Down
51175	TUBE1	tubulin epsilon 1	-0.836	1.388	Down
3066	HDAC2	histone deacetylase 2	-0.975	6.373	Down
728402	TPI1P3	triosephosphate isomerase 1 pseudogene 3	-1.923	3.005	Down
221302	ZUP1	zinc finger containing ubiquitin peptidase 1	-1.078	6.536	Down
285761	DCBLD1	discoidin, CUB and LCCL domain containing 1	-0.687	1.701	Down
116150	NUS1	NUS1 dehydrodolichyl diphosphate synthase subunit	-1.094	6.844	Down
4121	MAN1A1	mannosidase alpha class 1A member 1	-0.857	5.404	Down
51020	HDDC2	HD domain containing 2	-0.638	1.511	Down
135112	NCOA7	nuclear receptor coactivator 7	-0.486	2.168	Down
387103	CENPW	centromere protein W	-2.362	7.733	Down
55862	ECHDC1	ethylmalonyl-CoA decarboxylase 1	-1.057	11.711	Down
84456	L3MBTL3	L3MBTL histone methyl-lysine binding protein 3	-0.474	1.483	Down
2037	EPB41L2	erythrocyte membrane protein band 4.1 like 2	-1.03	3.048	Down
6446	SGK1	serum/glucocorticoid regulated kinase 1	-3.015	17.279	Down
10767	HBS1L	HBS1 like translational GTPase	-0.744	4.785	Down
4602	MYB	MYB proto-oncogene, transcription factor	-1.729	4.226	Down
1.05E+08	LOC105378011	uncharacterized LOC105378011	-1.692	2.129	Down
113115	MTFR2	mitochondrial fission regulator 2	-1.718	2.596	Down
9774	BCLAF1	BCL2 associated transcription factor 1	-0.626	2.283	Down

9053	MAP7	microtubule associated protein 7	-0.994	2.115	Down
7128	TNFAIP3	TNF alpha induced protein 3	-0.838	2.156	Down
1.08E+08	HIVEP2-DT	HIVEP2 divergent transcript	-1.381	4.876	Down
51390	AIG1	androgen induced 1	-0.744	1.963	Down
84946	LTV1	LTV1 ribosome biogenesis factor	-1.162	10.775	Down
5325	PLAGL1	PLAG1 like zinc finger 1	-0.916	2.92	Down
8676	STX11	syntaxin 11	-2.316	5.746	Down
84085	FBXO30	F-box protein 30	-0.568	2.389	Down
729176	KATNBL1P6	katanin regulatory subunit B1 like 1 pseudogene 6	-1.421	3.518	Down
1.05E+08	UST-AS2	UST antisense RNA 2	-4.806	10.303	Down
1.05E+08	LOC105378046		-2.338	1.53	Down
340152	ZC3H12D	zinc finger CCCH-type containing 12D	-2.734	2.594	Down
348995	NUP43	nucleoporin 43	-0.66	4.703	Down
80328	ULBP2	UL16 binding protein 2	-4.162	10.176	Down
80329	ULBP1	UL16 binding protein 1	-4.265	4.408	Down
646024	RAET1K	retinoic acid early transcript 1K pseudogene	-2.496	3.427	Down
79465	ULBP3	UL16 binding protein 3	-1.251	1.532	Down
25902	MTHFD1L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like	-1.769	5.626	Down
54516	MTRF1L	mitochondrial translation release factor 1 like	-1.042	5.245	Down
26230	TIAM2	TIAM Rac1 associated GEF 2	-2.408	9.916	Down
404672	GTF2H5	general transcription factor IIH subunit 5	-0.526	2.212	Down
6993	DYNLT1	dynein light chain Tctex-type 1	-1.63	5.008	Down
7430	EZR	ezrin	-0.948	5.151	Down
1.01E+08	EZR-AS1	EZR antisense RNA 1	-1.247	4.285	Down
1.05E+08	TAGAP-AS1	TAGAP antisense RNA 1	-1.944	13.283	Down
117289	TAGAP	T cell activation RhoGTPase activating protein	-2.114	13.664	Down
1E+08	SOD2-OT1	SOD2 overlapping transcript 1	-1.07	3.065	Down
39	ACAT2	acetyl-CoA acetyltransferase 2	-1.417	9.464	Down

6950	TCP1	t-complex 1	-1.404	20.606	Down
29074	MRPL18	mitochondrial ribosomal protein L18	-0.742	2.207	Down
113402	SFT2D1	SFT2 domain containing 1	-0.874	3.267	Down
11116	CEP43	centrosomal protein 43	-0.896	3.663	Down
1235	CCR6	C-C motif chemokine receptor 6	-0.977	1.841	Down
4301	AFDN	afadin, adherens junction formation factor	-0.781	1.459	Down
5689	PSMB1	proteasome 20S subunit beta 1	-1.444	10.805	Down
5134	PDCD2	programmed cell death 2	-0.551	1.685	Down
5154	PDGFA	platelet derived growth factor subunit A	-1.824	1.463	Down
5575	PRKAR1B	protein kinase cAMP-dependent type I regulatory subunit beta	-0.747	3.531	Down
1.02E+08	PRKAR1B-AS1	PRKAR1B antisense RNA 1	-1.854	8.636	Down
54919	DNAAF5	dynein axonemal assembly factor 5	-0.92	7.627	Down
11033	ADAP1	ArfGAP with dual PH domains 1	-2.285	22.317	Down
84310	C7orf50	chromosome 7 open reading frame 50	-0.862	1.82	Down
84262	PSMG3	proteasome assembly chaperone 3	-0.799	2.884	Down
4521	NUDT1	nudix hydrolase 1	-0.779	2.399	Down
29886	SNX8	sorting nexin 8	-0.882	2.467	Down
8662	EIF3B	eukaryotic translation initiation factor 3 subunit B	-1.019	8.01	Down
2768	GNA12	G protein subunit alpha 12	-0.381	1.641	Down
60	ACTB	actin beta	-1.993	12.725	Down
6624	FSCN1	fascin actin-bundling protein 1	-2.14	1.338	Down
51622	CCZ1	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated	-0.921	5.075	Down
1.08E+08	LOC107986694		-0.861	4.545	Down
7965	AIMP2	aminoacyl tRNA synthetase complex interacting multifunctional protein 2	-1.619	16.148	Down
221960	CCZ1B	CCZ1 homolog B, vacuolar protein trafficking and biogenesis associated	-0.949	26.125	Down
1.08E+08	LOC107986696		-0.87	4.799	Down
56913	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1	-0.737	2.854	Down
54468	MIOS	meiosis regulator for oocyte development	-0.999	4.829	Down

79150	MGC4859	uncharacterized LOC79150	-1.507	6.576	Down
4697	NDUFA4	NDUFA4 mitochondrial complex associated	-0.667	1.368	Down
28969	BZW2	basic leucine zipper and W2 domains 2	-0.7	1.39	Down
196	AHR	aryl hydrocarbon receptor	-1.326	3.966	Down
7291	TWIST1	twist family bHLH transcription factor 1	-2.948	4.025	Down
221830	POLR1F	RNA polymerase I subunit F	-1.274	11.067	Down
3569	IL6	interleukin 6	-6.073	2.796	Down
84668	HYCC1	hyccin PI4KA lipid kinase complex subunit 1	-1.31	5.761	Down
11097	NUP42	nucleoporin 42	-0.53	1.326	Down
115416	MALSU1	mitochondrial assembly of ribosomal large subunit 1	-0.724	2.73	Down
256355	RPS2P32	ribosomal protein S2 pseudogene 32	-1.277	1.367	Down
29896	TRA2A	transformer 2 alpha homolog	-0.693	3.652	Down
54205	CYCS	cytochrome c, somatic	-2.075	27.608	Down
9603	NFE2L3	NFE2 like bZIP transcription factor 3	-3.207	38.439	Down
3181	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	-1.834	29.412	Down
29887	SNX10	sorting nexin 10	-2.565	14.864	Down
1.05E+08	SNX10-AS1	SNX10 antisense RNA 1	-2.542	10.603	Down
55033	FKBP14	FKBP prolyl isomerase 14	-0.672	1.487	Down
79017	GGCT	gamma-glutamylcyclotransferase	-0.843	2.938	Down
2617	GARS1	glycyl-tRNA synthetase 1	-1.855	9.125	Down
51251	NT5C3A	5'-nucleotidase, cytosolic IIIA	-0.362	1.315	Down
6100	RP9	RP9 pre-mRNA splicing factor	-0.434	2.14	Down
23333	DPY19L1	dpy-19 like C-mannosyltransferase 1	-0.555	2.068	Down
9844	ELMO1	engulfment and cell motility 1	-0.399	1.353	Down
83930	STARD3NL	STARD3 N-terminal like	-1.048	4.353	Down
5683	PSMA2	proteasome 20S subunit alpha 2	-1.667	11.286	Down
64983	MRPL32	mitochondrial ribosomal protein L32	-0.551	1.389	Down
644	BLVRA	biliverdin reductase A	-1.232	5.395	Down

28988	DBNL	drebrin like	-0.624	3.111	Down
165	AEBP1	AE binding protein 1	-1.287	3.448	Down
5425	POLD2	DNA polymerase delta 2, accessory subunit	-1.568	12.289	Down
2645	GCK	glucokinase	-1.448	2.044	Down
10652	YKT6	YKT6 v-SNARE homolog	-0.728	7.638	Down
54606	DDX56	DEAD-box helicase 56	-1.212	11.037	Down
4967	OGDH	oxoglutarate dehydrogenase	-0.835	7.872	Down
83637	ZMIZ2	zinc finger MIZ-type containing 2	-0.946	2.057	Down
5478	PPIA	peptidylprolyl isomerase A	-1.046	3.706	Down
5814	PURB	purine rich element binding protein B	-0.739	3.121	Down
64005	MYO1G	myosin IG	-1.947	9.132	Down
285958	SNHG15	small nucleolar RNA host gene 15	-0.602	1.884	Down
9238	TBRG4	transforming growth factor beta regulator 4	-0.723	5.688	Down
63979	FIGNL1	fidgetin like 1	-0.683	3.571	Down
23480	SEC61G	SEC61 translocon subunit gamma	-1.263	5.203	Down
55915	LANCL2	LanC like glutathione S-transferase 2	-1.135	10.822	Down
51373	MRPS17	mitochondrial ribosomal protein S17	-0.867	3.805	Down
5723	PSPH	phosphoserine phosphatase	-1.6	5.446	Down
908	CCT6A	chaperonin containing TCP1 subunit 6A	-1.621	20.556	Down
51142	CHCHD2	coiled-coil-helix-coiled-coil-helix domain containing 2	-1.22	3.459	Down
649395	YWHAEP1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon pseudogene 1	-1.914	7.965	Down
285905	INTS4P1	integrator complex subunit 4 pseudogene 1	-0.522	1.333	Down
435	ASL	argininosuccinate lyase	-0.919	1.978	Down
8460	TPST1	tyrosylprotein sulfotransferase 1	-1.484	2.587	Down
51119	SBDS	SBDS ribosome maturation factor	-0.475	2.501	Down
8326	FZD9	frizzled class receptor 9	-1.601	1.336	Down
84277	DNAJC30	DnaJ heat shock protein family (Hsp40) member C30	-0.456	2.331	Down
114049	BUD23	BUD23 rRNA methyltransferase and ribosome maturation factor	-0.931	4.335	Down

7458	EIF4H	eukaryotic translation initiation factor 4H	-0.773	6.937	Down
5982	RFC2	replication factor C subunit 2	-0.589	1.611	Down
81554	RCC1L	RCC1 like	-0.691	4.129	Down
83862	TMEM120A	transmembrane protein 120A	-0.778	1.683	Down
4191	MDH2	malate dehydrogenase 2	-0.871	7.529	Down
3315	HSPB1	heat shock protein family B (small) member 1	-1.763	16.027	Down
7532	YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma	-1.503	16.08	Down
57157	PHTF2	putative homeodomain transcription factor 2	-0.899	4.983	Down
6717	SRI	sorcin	-0.951	9.576	Down
1.03E+08	SRI-AS1	SRI antisense RNA 1	-0.954	3.622	Down
1595	CYP51A1	cytochrome P450 family 51 subfamily A member 1	-2.063	18.396	Down
1021	CDK6	cyclin dependent kinase 6	-2.261	10.636	Down
1.02E+08	CDK6-AS1	CDK6 antisense RNA 1	-2.144	2.916	Down
219285	SAMD9L	sterile alpha motif domain containing 9 like	-2.339	5.063	Down
10165	SLC25A13	solute carrier family 25 member 13	-0.631	1.727	Down
7979	SEM1	SEM1 26S proteasome subunit	-1.006	6.7	Down
440	ASNS	asparagine synthetase (glutamine-hydrolyzing)	-2.538	17.186	Down
1.08E+08	CZ1P-ASNS	CZ1P-ASNS readthrough	-2.486	17.036	Down
389538	CCZ1P-OR7E38P	CCZ1P-OR7E38P readthrough	-1.261	7.04	Down
168620	BHLHA15	basic helix-loop-helix family member a15	-3.626	2.769	Down
55971	BAIAP2L1	BAR/IMD domain containing adaptor protein 2 like 1	-1.819	3.52	Down
4885	NPTX2	neuronal pentraxin 2	-3.308	1.76	Down
10552	ARPC1A	actin related protein 2/3 complex subunit 1A	-0.691	3.624	Down
10095	ARPC1B	actin related protein 2/3 complex subunit 1B	-1.155	6.59	Down
11333	PDAP1	PDGFA associated protein 1	-1.234	13.077	Down
8896	BUD31	BUD31 homolog	-0.925	3.363	Down
1.01E+08	ATP5MF-PTCD1	ATP5MF-PTCD1 readthrough	-0.964	5.209	Down
26024	PTCD1	pentatricopeptide repeat domain 1	-0.686	4.495	Down

10898	CPSF4	cleavage and polyadenylation specific factor 4	-0.665	3.931	Down
9551	ATP5MF	ATP synthase membrane subunit f	-1.181	3.59	Down
10980	COPS6	COP9 signalosome subunit 6	-1.155	5.399	Down
4176	MCM7	minichromosome maintenance complex component 7	-1.156	7.749	Down
255374	MBLAC1	metallo-beta-lactamase domain containing 1	-0.954	2.08	Down
441272	SPDYE3	speedy/RINGO cell cycle regulator family member E3	-0.564	2.534	Down
5379	PMS2P1	PMS1 homolog 2, mismatch repair system component pseudogene 1	-0.637	3.121	Down
81628	TSC22D4	TSC22 domain family member 4	-0.456	2.495	Down
3268	AGFG2	ArfGAP with FG repeats 2	-0.769	4.625	Down
7036	TFR2	transferrin receptor 2	-0.778	1.906	Down
2783	GNB2	G protein subunit beta 2	-0.591	5.557	Down
10248	POP7	POP7 homolog, ribonuclease P/MRP subunit	-1.052	8.508	Down
7205	TRIP6	thyroid hormone receptor interactor 6	-1.589	10.589	Down
51593	SRRT	serrate, RNA effector molecule	-1.938	13.594	Down
43	ACHE	acetylcholinesterase (Cartwright blood group)	-2.067	1.453	Down
1174	AP1S1	adaptor related protein complex 1 subunit sigma 1	-1.759	6.448	Down
8985	PLOD3	procollagen-lysine,2-oxoglutarate 5-dioxygenase 3	-0.487	1.334	Down
51024	FIS1	fission, mitochondrial 1	-0.632	2.47	Down
1.02E+08	EMSLR	E2F1 mRNA stabilizing lncRNA	-1.879	1.9	Down
80228	ORAI2	ORAI calcium release-activated calcium modulator 2	-0.733	7.38	Down
222229	LRWD1	leucine rich repeats and WD repeat domain containing 1	-1.012	8.798	Down
1.01E+08	MIR5090	microRNA 5090	-1.426	1.805	Down
27000	DNAJC2	DnaJ heat shock protein family (Hsp40) member C2	-1.198	4.786	Down
5701	PSMC2	proteasome 26S subunit, ATPase 2	-1.462	15.569	Down
375611	SLC26A5	solute carrier family 26 member 5	-0.737	2.22	Down
54517	PUS7	pseudouridine synthase 7	-1.598	10.562	Down
60561	RINT1	RAD50 interactor 1	-0.564	1.335	Down
10135	NAMPT	nicotinamide phosphoribosyltransferase	-2.517	19.843	Down

168455	CCDC71L	coiled-coil domain containing 71 like	-0.855	6.473	Down
1.15E+08	DUS4L-BCAP29	DUS4L-BCAP29 readthrough	-0.578	2.711	Down
55973	BCAP29	B cell receptor associated protein 29	-0.766	4.074	Down
1738	DLD	dihydrolipoamide dehydrogenase	-1.3	13.451	Down
83943	IMMP2L	inner mitochondrial membrane peptidase subunit 2	-0.783	1.53	Down
3475	IFRD1	interferon related developmental regulator 1	-0.411	1.519	Down
7982	ST7	suppression of tumorigenicity 7	-0.902	3.788	Down
93655	ST7-OT3	ST7 overlapping transcript 3	-0.915	1.636	Down
10447	FAM3C	FAM3 metabolism regulating signaling molecule C	-0.866	3.117	Down
4698	NDUFA5	NADH:ubiquinone oxidoreductase subunit A5	-0.626	2.309	Down
27044	SND1	staphylococcal nuclease and tudor domain containing 1	-0.897	5.575	Down
55131	RBM28	RNA binding motif protein 28	-0.905	2.842	Down
29923	HILPDA	hypoxia inducible lipid droplet associated	-1.341	5.254	Down
55798	METTL2B	methyltransferase 2B, methylcytidine	-1.276	8.87	Down
813	CALU	calumenin	-0.698	5.217	Down
3663	IRF5	interferon regulatory factor 5	-0.832	1.49	Down
23534	TNPO3	transportin 3	-0.332	2.03	Down
286016	TPI1P2	triosephosphate isomerase 1 pseudogene 2	-1.921	5.108	Down
57464	STRIP2	striatin interacting protein 2	-2.298	2.341	Down
51530	ZC3HC1	zinc finger C3HC-type containing 1	-0.69	2.721	Down
4232	MEST	mesoderm specific transcript	-0.917	1.619	Down
26958	COPG2	COPI coat complex subunit gamma 2	-0.394	1.613	Down
378805	LINC-PINT	long intergenic non-protein coding RNA, p53 induced transcript	-0.767	4.682	Down
54927	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3	-1.074	10.627	Down
84912	SLC35B4	solute carrier family 35 member B4	-0.851	3.589	Down
800	CALD1	caldesmon 1	-2.377	1.955	Down
23165	NUP205	nucleoporin 205	-0.773	2.845	Down
57670	KIAA1549	KIAA1549	-1.402	1.923	Down

92092	ZC3HAV1L	zinc finger CCCH-type containing, antiviral 1 like	-1.582	5.849	Down
1.08E+08	LOC107986852	uncharacterized LOC107986852	-1.916	1.659	Down
79989	TTC26	tetratricopeptide repeat domain 26	-1.674	9.077	Down
51631	LUC7L2	LUC7 like 2, pre-mRNA splicing factor	-0.473	2.26	Down
1.01E+08	FMC1-LUC7L2	FMC1-LUC7L2 readthrough	-0.429	1.991	Down
1E+08	LOC100129148	uncharacterized LOC100129148	-0.444	1.425	Down
64761	PARP12	poly(ADP-ribose) polymerase family member 12	-1.45	4.928	Down
84255	SLC37A3	solute carrier family 37 member 3	-2.251	12.851	Down
401409	RAB19	RAB19, member RAS oncogene family	-3.315	17.997	Down
1E+08	NDUFB2-AS1	NDUFB2 antisense RNA 1	-0.872	3.259	Down
4708	NDUFB2	NADH:ubiquinone oxidoreductase subunit B2	-1.01	3.9	Down
1.01E+08	TMEM178B	transmembrane protein 178B	-1.596	2.568	Down
6742	SSBP1	single stranded DNA binding protein 1	-1.292	8.18	Down
135932	TMEM139	transmembrane protein 139	-2.708	2.972	Down
285966	TCAF2	TRPM8 channel associated factor 2	-0.702	4.307	Down
653691	TCAF2P1	TRPM8 channel associated factor 2 pseudogene 1	-0.647	2.721	Down
154761	LOC154761	family with sequence similarity 115, member C pseudogene	-0.631	4.503	Down
8454	CUL1	cullin 1	-0.288	2.123	Down
2146	EZH2	enhancer of zeste 2 polycomb repressive complex 2 subunit	-2.648	13.894	Down
1.03E+08	GHET1	gastric carcinoma proliferation enhancing transcript 1	-1.67	1.563	Down
9601	PDIA4	protein disulfide isomerase family A member 4	-0.593	1.814	Down
653857	ACTR3C	actin related protein 3C	-1.14	2.172	Down
65999	LRRC61	leucine rich repeat containing 61	-0.909	2.715	Down
113763	ZBED10P	zinc finger BED-type containing 10, pseudogene	-0.694	2.541	Down
11194	ABCB8	ATP binding cassette subfamily B member 8	-0.41	1.639	Down
6522	SLC4A2	solute carrier family 4 member 2	-0.858	3.256	Down
10922	FASTK	Fas activated serine/threonine kinase	-0.434	1.909	Down
1.14E+08	ABCF2-H2BK1	ABCF2-H2BK1 readthrough	-1.558	14.621	Down

10061	ABCF2	ATP binding cassette subfamily F member 2	-1.726	17.735	Down
54480	CHPF2	chondroitin polymerizing factor 2	-0.601	3.704	Down
6009	RHEB	Ras homolog, mTORC1 binding	-0.555	1.498	Down
7516	XRCC2	X-ray repair cross complementing 2	-1.378	1.408	Down
3638	INSIG1	insulin induced gene 1	-0.867	3.477	Down
64434	NOM1	nucleolar protein with MIF4G domain 1	-0.887	2.142	Down
9690	UBE3C	ubiquitin protein ligase E3C	-0.935	8.319	Down
10049	DNAJB6	DnaJ heat shock protein family (Hsp40) member B6	-0.906	10.953	Down
1.05E+08	LOC105375615	uncharacterized LOC105375615	-1.693	3.783	Down
90459	ERI1	exoribonuclease 1	-0.718	4.429	Down
54984	PINX1	PIN2 (TERF1) interacting telomerase inhibitor 1	-0.996	4.733	Down
83648	FAM167A	family with sequence similarity 167 member A	-1.311	2.144	Down
2222	FDFT1	farnesyl-diphosphate farnesyltransferase 1	-1.093	17.998	Down
91694	LONRF1	LON peptidase N-terminal domain and ring finger 1	-1.063	3.897	Down
10395	DLC1	DLC1 Rho GTPase activating protein	-2.797	4.127	Down
63898	SH2D4A	SH2 domain containing 4A	-1.115	1.909	Down
526	ATP6V1B2	ATPase H+ transporting V1 subunit B2	-0.453	2.117	Down
11178	LZTS1	leucine zipper tumor suppressor 1	-1.603	1.459	Down
9046	DOK2	docking protein 2	-0.619	3.526	Down
2039	DMTN	dematin actin binding protein	-1.74	12.261	Down
80346	REEP4	receptor accessory protein 4	-0.541	2.523	Down
661	POLR3D	RNA polymerase III subunit D	-0.954	7.573	Down
23516	SLC39A14	solute carrier family 39 member 14	-2.206	26.142	Down
64236	PDLIM2	PDZ and LIM domain 2	-0.368	1.59	Down
1.08E+08	LOC107986924	uncharacterized LOC107986924	-8.198	23.381	Down
1960	EGR3	early growth response 3	-8.601	55.421	Down
4824	NKX3-1	NK3 homeobox 1	-1.367	4.35	Down
54793	KCTD9	potassium channel tetramerization domain containing 9	-0.471	1.635	Down

157313	CDCA2	cell division cycle associated 2	-1.789	2.033	Down
5520	PPP2R2A	protein phosphatase 2 regulatory subunit Balpha	-0.471	2.045	Down
55872	PBK	PDZ binding kinase	-3.685	2.502	Down
2137	EXTL3	exostosin like glycosyltransferase 3	-0.61	3.712	Down
55756	INTS9	integrator complex subunit 9	-1.006	6.584	Down
1846	DUSP4	dual specificity phosphatase 4	-2.834	13.695	Down
2961	GTF2E2	general transcription factor IIE subunit 2	-0.751	3.733	Down
2936	GSR	glutathione-disulfide reductase	-0.895	13.564	Down
7993	UBXN8	UBX domain protein 8	-1.16	2.576	Down
84549	MAK16	MAK16 homolog	-1.226	6.507	Down
80185	TTI2	TELO2 interacting protein 2	-1.035	5.543	Down
11212	PLPBP	pyridoxal phosphate binding protein	-0.344	1.343	Down
80223	RAB11FIP1	RAB11 family interacting protein 1	-2.119	7.895	Down
1978	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	-1.387	5.295	Down
27257	LSM1	LSM1 homolog, mRNA degradation associated	-0.809	3.937	Down
6867	TACC1	transforming acidic coiled-coil containing protein 1	-0.709	4.432	Down
84296	GINS4	GINS complex subunit 4	-1.016	3.812	Down
137964	GPAT4	glycerol-3-phosphate acyltransferase 4	-0.554	3.84	Down
5327	PLAT	plasminogen activator, tissue type	-3.399	9.007	Down
5423	POLB	DNA polymerase beta	-1.021	3.386	Down
7419	VDAC3	voltage dependent anion channel 3	-1.06	5.497	Down
8973	CHRNA6	cholinergic receptor nicotinic alpha 6 subunit	-4.123	10.019	Down
5591	PRKDC	protein kinase, DNA-activated, catalytic subunit	-0.586	1.719	Down
4173	MCM4	minichromosome maintenance complex component 4	-2.315	13.175	Down
10434	LYPLA1	lysophospholipase 1	-1.421	8.407	Down
29088	MRPL15	mitochondrial ribosomal protein L15	-0.908	4.061	Down
96764	TGS1	trimethylguanosine synthase 1	-0.84	4.983	Down
54928	BPNT2	3'(2'), 5'-bisphosphate nucleotidase 2	-1.118	11.437	Down

9420	CYP7B1	cytochrome P450 family 7 subfamily B member 1	-2.381	2.295	Down
23212	RRS1	ribosome biogenesis regulator 1 homolog	-1.277	9.193	Down
10987	COPS5	COP9 signalosome subunit 5	-0.776	2.346	Down
10499	NCOA2	nuclear receptor coactivator 2	-0.79	1.622	Down
51110	LACTB2	lactamase beta 2	-0.97	2.781	Down
9242	MSC	musculin	-1.335	1.985	Down
27067	STAU2	staufen double-stranded RNA binding protein 2	-0.353	2.367	Down
55284	UBE2W	ubiquitin conjugating enzyme E2 W	-0.612	2.286	Down
6921	ELOC	elongin C	-1.328	11.502	Down
54968	TMEM70	transmembrane protein 70	-0.701	4.228	Down
54332	GDAP1	ganglioside induced differentiation associated protein 1	-0.854	3.665	Down
51101	ZC2HC1A	zinc finger C2HC-type containing 1A	-1.027	2.464	Down
1.05E+08	LOC105375914	uncharacterized LOC105375914	-2.09	1.699	Down
1.13E+08	LINC02605	long intergenic non-protein coding RNA 2605	-3.2	1.703	Down
28957	MRPS28	mitochondrial ribosomal protein S28	-1.61	8.774	Down
1.05E+08	LOC105375924	uncharacterized LOC105375924	-2.414	1.452	Down
3612	IMPA1	inositol monophosphatase 1	-0.953	5.593	Down
8767	RIPK2	receptor interacting serine/threonine kinase 2	-1.219	3.254	Down
734	OSGIN2	oxidative stress induced growth inhibitor family member 2	-0.648	4.027	Down
4683	NBN	nibrin	-1.097	7.103	Down
169200	TMEM64	transmembrane protein 64	-1.154	8.034	Down
1E+08	C8orf88	chromosome 8 open reading frame 88	-1.252	1.631	Down
51633	OTUD6B	OTU deubiquitinase 6B	-1.542	9.053	Down
51001	MTERF3	mitochondrial transcription termination factor 3	-0.617	2.925	Down
55353	LAPTM4B	lysosomal protein transmembrane 4 beta	-0.818	1.719	Down
10940	POP1	POP1 homolog, ribonuclease P/MRP subunit	-1.595	8.179	Down
6788	STK3	serine/threonine kinase 3	-1.523	12.341	Down
5440	POLR2K	RNA polymerase II, I and III subunit K	-1.073	3.911	Down

6674	SPAG1	sperm associated antigen 1	-2.726	21.947	Down
25897	RNF19A	ring finger protein 19A, RBR E3 ubiquitin protein ligase	-1.306	11.179	Down
51123	ZNF706	zinc finger protein 706	-0.598	2.676	Down
83988	NCALD	neurocalcin delta	-1.445	1.749	Down
81034	SLC25A32	solute carrier family 25 member 32	-1.138	12.396	Down
25879	DCAF13	DDB1 and CUL4 associated factor 13	-1.484	8.941	Down
29967	LRP12	LDL receptor related protein 12	-0.775	2.229	Down
84955	NUDCD1	NudC domain containing 1	-2.008	20.013	Down
90390	MED30	mediator complex subunit 30	-0.845	3.228	Down
79075	DSCC1	DNA replication and sister chromatid cohesion 1	-3.11	8.801	Down
28998	MRPL13	mitochondrial ribosomal protein L13	-1.721	11.486	Down
27085	MTBP	MDM2 binding protein	-0.68	2.178	Down
3037	HAS2	hyaluronan synthase 2	-6.458	3.971	Down
11244	ZHX1	zinc fingers and homeoboxes 1	-0.538	4.062	Down
55093	NTAQ1	N-terminal glutamine amidase 1	-0.583	1.778	Down
157769	FAM91A1	family with sequence similarity 91 member A1	-0.909	10.78	Down
6713	SQLE	squalene epoxidase	-1.822	19.075	Down
4609	MYC	MYC proto-oncogene, bHLH transcription factor	-0.68	2.102	Down
51571	CYRIB	CYFIP related Rac1 interactor B	-0.697	3.973	Down
51105	PHF20L1	PHD finger protein 20 like 1	-1.088	4.142	Down
54108	CHRAC1	chromatin accessibility complex subunit 1	-0.64	2.702	Down
57210	SLC45A4	solute carrier family 45 member 4	-0.666	1.86	Down
1.05E+08	LOC105375787	uncharacterized LOC105375787	-1.589	1.411	Down
11156	PTP4A3	protein tyrosine phosphatase 4A3	-1.089	5.278	Down
66004	LYNX1	Ly6/neurotoxin 1	-1.702	1.895	Down
1E+08	CDC42P3	CDC42 pseudogene 3	-0.954	1.563	Down
4061	LY6E	lymphocyte antigen 6 family member E	-1.527	9.806	Down
79792	GSDMD	gasdermin D	-1.184	4.936	Down

65263	PYCR3	pyrroline-5-carboxylate reductase 3	-1.653	9.261	Down
7264	GFUS	GDP-L-fucose synthase	-1.916	15.886	Down
286077	FAM83H	family with sequence similarity 83 member H	-1.294	4.12	Down
23513	SCRIB	scribble planar cell polarity protein	-0.813	2.134	Down
22827	PUF60	poly(U) binding splicing factor 60	-1.141	10.429	Down
1.08E+08	LOC107986985	uncharacterized LOC107986985	-1.281	3.631	Down
26873	OPLAH	5-oxoprolinase, ATP-hydrolysing	-2.468	5.142	Down
54512	EXOSC4	exosome component 4	-2.032	11.779	Down
8733	GPAA1	glycosylphosphatidylinositol anchor attachment 1	-0.927	5.372	Down
1537	CYC1	cytochrome c1	-1.531	8.414	Down
51236	HGH1	HGH1 homolog	-0.622	2.842	Down
23246	BOP1	BOP1 ribosomal biogenesis factor	-2.326	23.165	Down
642658	SCX	scleraxis bHLH transcription factor	-1.466	4.399	Down
340393	TMEM249	transmembrane protein 249	-1.218	1.686	Down
26233	FBXL6	F-box and leucine rich repeat protein 6	-1.288	5.009	Down
79581	SLC52A2	solute carrier family 52 member 2	-1.049	7.859	Down
29894	CPSF1	cleavage and polyadenylation specific factor 1	-0.496	1.454	Down
55630	SLC39A4	solute carrier family 39 member 4	-1.034	2.834	Down
4796	TONSL	tonsoku like, DNA repair protein	-1.812	6.367	Down
1E+08	TONSL-AS1	TONSL antisense RNA 1	-1.634	2.144	Down
9401	RECQL4	RecQ like helicase 4	-1.179	2.328	Down
28991	COMMD5	COMM domain containing 5	-0.756	2.629	Down
65265	C8orf33	chromosome 8 open reading frame 33	-0.926	8.053	Down
55871	ZNG1A	Zn regulated GTPase metalloprotein activator 1A	-1.431	11.369	Down
7436	VLDLR	very low density lipoprotein receptor	-1.801	2.673	Down
9933	PUM3	pumilio RNA binding family member 3	-1.859	29.239	Down
10171	RCL1	RNA terminal phosphate cyclase like 1	-0.812	1.971	Down
3717	JAK2	Janus kinase 2	-1.132	4.13	Down

55848	PLGRKT	plasminogen receptor with a C-terminal lysine	-0.727	1.313	Down
29126	CD274	CD274 molecule	-3.433	13.828	Down
80380	PDCD1LG2	programmed cell death 1 ligand 2	-2.369	1.957	Down
1.08E+08	LOC107987046	uncharacterized LOC107987046	-0.906	1.612	Down
2731	GLDC	glycine decarboxylase	-4.856	7.792	Down
340481	ZDHHC21	zinc finger DHHC-type palmitoyltransferase 21	-1.277	3.733	Down
54801	HAUS6	HAUS augmin like complex subunit 6	-0.49	2.885	Down
4507	MTAP	methylthioadenosine phosphorylase	-0.591	1.702	Down
79886	CAAP1	caspase activity and apoptosis inhibitor 1	-1.025	7.021	Down
9373	PLAA	phospholipase A2 activating protein	-0.937	8.294	Down
48	ACO1	aconitase 1	-0.552	2.027	Down
4712	NDUFB6	NADH:ubiquinone oxidoreductase subunit B6	-0.767	1.828	Down
54840	APTX	aprataxin	-0.501	1.486	Down
3301	DNAJA1	DnaJ heat shock protein family (Hsp40) member A1	-2.54	44.38	Down
55234	SMU1	SMU1 DNA replication regulator and spliceosomal factor	-0.419	1.482	Down
573	BAG1	BAG cochaperone 1	-0.607	3.333	Down
51510	CHMP5	charged multivesicular body protein 5	-0.791	1.977	Down
65083	NOL6	nucleolar protein 6	-1.189	9.148	Down
55833	UBAP2	ubiquitin associated protein 2	-0.714	2.078	Down
203259	FAM219A	family with sequence similarity 219 member A	-1.269	7.888	Down
10280	SIGMAR1	sigma non-opioid intracellular receptor 1	-0.452	4.923	Down
7415	VCP	valosin containing protein	-1.68	46.174	Down
30968	STOML2	stomatin like 2	-1.466	8.334	Down
7016	TESK1	testis associated actin remodelling kinase 1	-0.752	2.535	Down
1.02E+08	MIR6852	microRNA 6852	-0.618	1.37	Down
1211	CLTA	clathrin light chain A	-0.41	1.306	Down
10020	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	-0.431	3.833	Down
9833	MELK	maternal embryonic leucine zipper kinase	-2.608	3.56	Down

401505	TOMM5	translocase of outer mitochondrial membrane 5	-0.84	1.985	Down
51010	EXOSC3	exosome component 3	-1.018	10.499	Down
219	ALDH1B1	aldehyde dehydrogenase 1 family member B1	-1.481	18.198	Down
389741	GLIDR	glioblastoma down-regulated RNA	-1.122	2.407	Down
644019	ZNG1F	Zn regulated GTPase metalloprotein activator 1F	-1.347	7.287	Down
728673	FAM88B	family with sequence similarity 88 member B	-1.438	1.774	Down
220869	ZNG1E	Zn regulated GTPase metalloprotein activator 1E	-1.05	3.776	Down
445571	ZNG1C	Zn regulated GTPase metalloprotein activator 1C	-1.408	11.219	Down
2395	FXN	frataxin	-0.683	3.962	Down
9414	TJP2	tight junction protein 2	-1.091	2.064	Down
23137	SMC5	structural maintenance of chromosomes 5	-0.509	3.415	Down
26578	OSTF1	osteoclast stimulating factor 1	-0.951	5.603	Down
55312	RFK	riboflavin kinase	-0.719	3.971	Down
2650	GCNT1	glucosaminyl (N-acetyl) transferase 1	-1.466	10.17	Down
29968	PSAT1	phosphoserine aminotransferase 1	-3.533	11.261	Down
29979	UBQLN1	ubiquilin 1	-0.358	3.695	Down
84267	C9orf64	chromosome 9 open reading frame 64	-1.2	11.316	Down
3190	HNRNPK	heterogeneous nuclear ribonucleoprotein K	-0.69	6.23	Down
80010	RMI1	RecQ mediated genome instability 1	-0.405	2.487	Down
4915	NTRK2	neurotrophic receptor tyrosine kinase 2	-2.893	3.224	Down
1164	CKS2	CDC28 protein kinase regulatory subunit 2	-2.349	32.212	Down
10912	GADD45G	growth arrest and DNA damage inducible gamma	-1.185	1.888	Down
1E+08	LINC03062	long intergenic non-protein coding RNA 3062	-5.436	11.892	Down
1.05E+08	LOC105376140	uncharacterized LOC105376140	-5.471	3.452	Down
1.01E+08	LINC02937	long intergenic non-protein coding RNA 2937	-2.129	2.25	Down
549	AUH	AU RNA binding methylglutaconyl-CoA hydratase	-1.016	3.728	Down
4783	NFIL3	nuclear factor, interleukin 3 regulated	-2.496	11.309	Down
10558	SPTLC1	serine palmitoyltransferase long chain base subunit 1	-0.507	1.439	Down

1.12E+08	LOC112268048	uncharacterized LOC112268048	-2.013	9.274	Down
3376	IARS1	isoleucyl-tRNA synthetase 1	-1.944	17.841	Down
401541	CENPP	centromere protein P	-0.726	3.974	Down
64768	IPPK	inositol-pentakisphosphate 2-kinase	-1.034	8.589	Down
4814	NINJ1	ninjurin 1	-1.122	5.539	Down
65268	WNK2	WNK lysine deficient protein kinase 2	-6.802	5.815	Down
445577	FAM120A2P	family with sequence similarity 120A2, pseudogene	-0.639	2.076	Down
23196	FAM120A	family with sequence similarity 120A	-0.529	2.399	Down
138639	PTPDC1	protein tyrosine phosphatase domain containing 1	-0.825	3.248	Down
2176	FANCC	FA complementation group C	-1.191	5.884	Down
195828	ZNF367	zinc finger protein 367	-0.467	1.366	Down
23424	TDRD7	tudor domain containing 7	-0.973	3.442	Down
4686	NCBP1	nuclear cap binding protein subunit 1	-0.967	8.314	Down
54187	NANS	N-acetylneuraminate synthase	-0.824	4.479	Down
10952	SEC61B	SEC61 translocon subunit beta	-1.308	4.647	Down
8013	NR4A3	nuclear receptor subfamily 4 group A member 3	-1.975	1.309	Down
23071	ERP44	endoplasmic reticulum protein 44	-0.611	2.984	Down
10592	SMC2	structural maintenance of chromosomes 2	-0.907	3.364	Down
2218	FKTN	fukutin	-0.682	2.526	Down
1.12E+08	LOC112268052		-0.858	2.687	Down
5887	RAD23B	RAD23 homolog B, nucleotide excision repair protein	-0.86	11.212	Down
8727	CTNNAL1	catenin alpha like 1	-0.602	1.867	Down
5774	PTPN3	protein tyrosine phosphatase non-receptor type 3	-2.235	1.433	Down
445815	PALM2AKAP2	PALM2 and AKAP2 fusion	-2.663	2.127	Down
7295	TXN	thioredoxin	-2.431	4.478	Down
79987	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	-6.283	3.426	Down
23392	ECPAS	Ecm29 proteasome adaptor and scaffold	-0.636	2.34	Down
552891	DNAJC25-GNG10	DNAJC25-GNG10 readthrough	-0.973	4.102	Down

2790	GNG10	G protein subunit gamma 10	-0.989	3.884	Down
1318	SLC31A2	solute carrier family 31 member 2	-0.586	1.348	Down
1317	SLC31A1	solute carrier family 31 member 1	-0.944	6.878	Down
9128	PRPF4	pre-mRNA processing factor 4	-0.57	2.832	Down
5998	RGS3	regulator of G protein signaling 3	-1.773	11.309	Down
85301	COL27A1	collagen type XXVII alpha 1 chain	-2.654	5.639	Down
5711	PSMD5	proteasome 26S subunit, non-ATPase 5	-0.408	2.978	Down
7185	TRAF1	TNF receptor associated factor 1	-2.052	5.117	Down
2681	GGTA1	glycoprotein alpha-galactosyltransferase 1 (inactive)	-3.183	3.487	Down
4702	NDUFA8	NADH:ubiquinone oxidoreductase subunit A8	-0.559	1.681	Down
92399	MRRF	mitochondrial ribosome recycling factor	-0.781	9.814	Down
55342	STRBP	spermatid perinuclear RNA binding protein	-0.413	2.015	Down
5695	PSMB7	proteasome 20S subunit beta 7	-1.123	3.891	Down
2649	NR6A1	nuclear receptor subfamily 6 group A member 1	-2.004	2.729	Down
81873	ARPC5L	actin related protein 2/3 complex subunit 5 like	-1.313	13.93	Down
10244	RABEPK	Rab9 effector protein with kelch motifs	-0.835	2.32	Down
3309	HSPA5	heat shock protein family A (Hsp70) member 5	-1.458	14.675	Down
29988	SLC2A8	solute carrier family 2 member 8	-1.131	2.322	Down
138428	PTRH1	peptidyl-tRNA hydrolase 1 homolog	-1.661	12.242	Down
286207	CFAP157	cilia and flagella associated protein 157	-1.681	12.82	Down
2356	FPGS	folylpolyglutamate synthase	-1.533	30.693	Down
8818	DPM2	dolichyl-phosphate mannosyltransferase subunit 2, regulatory	-1.259	12.2	Down
80142	PTGES2	prostaglandin E synthase 2	-1.119	11.253	Down
26995	TRUB2	TruB pseudouridine synthase family member 2	-1.111	6.963	Down
1.05E+08	LOC105376286	uncharacterized LOC105376286	-1.059	3.531	Down
51117	COQ4	coenzyme Q4	-0.622	2.979	Down
10999	SLC27A4	solute carrier family 27 member 4	-1.394	16.882	Down
81605	URM1	ubiquitin related modifier 1	-0.523	1.743	Down

51148	CERCAM	cerebral endothelial cell adhesion molecule	-1.007	1.311	Down
4957	ODF2	outer dense fiber of sperm tails 2	-0.62	1.911	Down
6418	SET	SET nuclear proto-oncogene	-0.642	5.214	Down
29941	PKN3	protein kinase N3	-1.016	3.873	Down
51490	SPOUT1	SPOUT domain containing methyltransferase 1	-0.732	4.575	Down
23511	NUP188	nucleoporin 188	-1.478	14.131	Down
1.02E+08	LOC101929314	uncharacterized LOC101929314	-1.451	10.394	Down
57171	DOLPP1	dolichyldiphosphatase 1	-0.97	9.16	Down
5524	PTPA	protein phosphatase 2 phosphatase activator	-0.592	2.503	Down
1861	TOR1A	torsin family 1 member A	-0.485	1.488	Down
23048	FNBP1	formin binding protein 1	-0.397	1.375	Down
23413	NCS1	neuronal calcium sensor 1	-2.489	5.336	Down
23404	EXOSC2	exosome component 2	-0.623	5.987	Down
9442	MED27	mediator complex subunit 27	-1.253	13.946	Down
64794	DDX31	DEAD-box helicase 31	-0.356	1.67	Down
9328	GTF3C5	general transcription factor IIIC subunit 5	-0.383	3.21	Down
6837	MED22	mediator complex subunit 22	-0.372	1.633	Down
6835	SURF2	surfeit 2	-0.473	1.33	Down
6836	SURF4	surfeit 4	-1.052	10.049	Down
11182	SLC2A6	solute carrier family 2 member 6	-1.358	1.594	Down
11091	WDR5	WD repeat domain 5	-0.48	3.209	Down
6256	RXRA	retinoid X receptor alpha	-1.017	7.831	Down
51116	MRPS2	mitochondrial ribosomal protein S2	-0.537	4.092	Down
1.02E+08	LOC101928525	uncharacterized LOC101928525	-0.57	3.078	Down
26086	GPSM1	G protein signaling modulator 1	-0.661	2.222	Down
10807	ENTR1	endosome associated trafficking regulator 1	-0.598	2.542	Down
23203	PMPCA	peptidase, mitochondrial processing subunit alpha	-0.971	8.022	Down
10555	AGPAT2	1-acylglycerol-3-phosphate O-acyltransferase 2	-1.126	6.953	Down

414332	LCN10	lipocalin 10	-2.476	4.148	Down
85014	TMEM141	transmembrane protein 141	-0.805	2.458	Down
29085	PHPT1	phosphohistidine phosphatase 1	-2.014	8.28	Down
8721	EDF1	endothelial differentiation related factor 1	-0.532	1.625	Down
7186	TRAF2	TNF receptor associated factor 2	-1.457	16.122	Down
401563	LINC02908	long intergenic non-protein coding RNA 2908	-1.04	2.759	Down
2529	FUT7	fucosyltransferase 7	-1.302	3.635	Down
954	ENTPD2	ectonucleoside triphosphate diphosphohydrolase 2	-4.528	1.805	Down
89958	SAPCD2	suppressor APC domain containing 2	-3.04	10.767	Down
8636	SSNA1	SS nuclear autoantigen 1	-0.887	3.414	Down
727800	RNF208	ring finger protein 208	-1.632	3.656	Down
10383	TUBB4B	tubulin beta 4B class IVb	-2.408	24.061	Down
401565	FAM166A	family with sequence similarity 166 member A	-2.407	16.749	Down
441478	NRARP	NOTCH regulated ankyrin repeat protein	-2.359	5.26	Down
26012	NSMF	NMDA receptor synaptonuclear signaling and neuronal migration factor	-0.648	1.626	Down
64975	MRPL41	mitochondrial ribosomal protein L41	-0.594	1.361	Down
23560	GTPBP4	GTP binding protein 4	-1.56	18.975	Down
91734	IDI2	isopentenyl-diphosphate delta isomerase 2	-0.761	1.391	Down
55853	IDI2-AS1	IDI2 antisense RNA 1	-1.928	9.995	Down
3422	IDI1	isopentenyl-diphosphate delta isomerase 1	-1.549	21.705	Down
5214	PFKP	phosphofructokinase, platelet	-1.315	2.554	Down
10531	PITRM1	pitrilysin metallopeptidase 1	-1.846	9.138	Down
1.01E+08	PITRM1-AS1	PITRM1 antisense RNA 1	-1.623	6.72	Down
1.05E+08	LOC105376361	uncharacterized LOC105376361	-2.594	1.337	Down
1.05E+08	LOC105376367	uncharacterized LOC105376367	-1.751	4.813	Down
54906	TASOR2	transcription activation suppressor family member 2	-0.415	3.802	Down
3601	IL15RA	interleukin 15 receptor subunit alpha	-2.596	14.736	Down
1.08E+08	LOC107984200	uncharacterized LOC107984200	-2.425	7.426	Down

3559	IL2RA	interleukin 2 receptor subunit alpha	-3.443	4.402	Down
1.08E+08	LOC107984201	uncharacterized LOC107984201	-4.957	33.584	Down
84991	RBM17	RNA binding motif protein 17	-0.977	15.604	Down
509	ATP5F1C	ATP synthase F1 subunit gamma	-1.375	8.844	Down
1.05E+08	LOC105376392	uncharacterized LOC105376392	-1.341	4.139	Down
399717	GATA3-AS1	GATA3 antisense RNA 1	-2.142	2.633	Down
9712	USP6NL	USP6 N-terminal like	-0.625	1.427	Down
55176	SEC61A2	SEC61 translocon subunit alpha 2	-0.486	2.03	Down
11164	NUDT5	nudix hydrolase 5	-0.736	3.27	Down
8872	CDC123	cell division cycle 123	-1.023	6.358	Down
55388	MCM10	minichromosome maintenance 10 replication initiation factor	-6.45	11.808	Down
5264	PHYH	phytanoyl-CoA 2-hydroxylase	-0.661	1.455	Down
22929	SEPHS1	selenophosphate synthetase 1	-0.803	5.776	Down
8559	PRPF18	pre-mRNA processing factor 18	-0.39	2.185	Down
51182	HSPA14	heat shock protein family A (Hsp70) member 14	-0.656	6.063	Down
79723	SUV39H2	SUV39H2 histone lysine methyltransferase	-1.353	9.838	Down
221061	FAM171A1	family with sequence similarity 171 member A1	-0.859	4.288	Down
6251	RSU1	Ras suppressor protein 1	-0.919	4.379	Down
221079	ARL5B	ADP ribosylation factor like GTPase 5B	-1.243	3.974	Down
23590	PDSS1	decaprenyl diphosphate synthase subunit 1	-1.289	9.154	Down
283078	MKX	mohawk homeobox	-4.446	3.844	Down
55149	MTPAP	mitochondrial poly(A) polymerase	-0.693	5.505	Down
1326	MAP3K8	mitogen-activated protein kinase kinase kinase 8	-4.465	18.24	Down
3799	KIF5B	kinesin family member 5B	-0.571	1.925	Down
8453	CUL2	cullin 2	-0.597	4.464	Down
1390	CREM	cAMP responsive element modulator	-1.444	5.258	Down
9790	BMS1	BMS1 ribosome biogenesis factor	-1.225	9.926	Down
3185	HNRNPF	heterogeneous nuclear ribonucleoprotein F	-0.868	7.15	Down

10151	HNRNPA3P1	heterogeneous nuclear ribonucleoprotein A3 pseudogene 1	-1.748	8.971	Down
1E+08	TIMM23	translocase of inner mitochondrial membrane 23	-1.906	24.288	Down
728643	HNRNPA1P33	heterogeneous nuclear ribonucleoprotein A1 pseudogene 33	-1.264	2.952	Down
439965	SHLD2P3	shieldin complex subunit 2 pseudogene 3	-0.452	1.372	Down
170371	TMEM273	transmembrane protein 273	-2.642	4.634	Down
1.01E+08	TIMM23B	translocase of inner mitochondrial membrane 23 homolog B	-1.384	11.46	Down
11130	ZWINT	ZW10 interacting kinetochore protein	-2.843	14.447	Down
55847	CISD1	CDGSH iron sulfur domain 1	-1.371	4.228	Down
7019	TFAM	transcription factor A, mitochondrial	-0.656	3.345	Down
220963	SLC16A9	solute carrier family 16 member 9	-6.798	5.407	Down
8030	CCDC6	coiled-coil domain containing 6	-0.514	1.936	Down
84890	ADO	2-aminoethanethiol dioxygenase	-1.21	4.417	Down
1959	EGR2	early growth response 2	-3.671	9.814	Down
29982	NRBF2	nuclear receptor binding factor 2	-0.673	3.441	Down
1763	DNA2	DNA replication helicase/nuclease 2	-2.217	13.686	Down
55749	CCAR1	cell division cycle and apoptosis regulator 1	-0.587	1.91	Down
9188	DDX21	DExD-box helicase 21	-1.999	27.623	Down
5552	SRGN	serglycin	-1.493	10.175	Down
6832	SUPV3L1	Suv3 like RNA helicase	-0.347	1.559	Down
3098	HK1	hexokinase 1	-0.919	22.665	Down
219738	FAM241B	family with sequence similarity 241 member B	-1.608	5.87	Down
84883	AIFM2	apoptosis inducing factor mitochondria associated 2	-1.785	5.422	Down
5464	PPA1	inorganic pyrophosphatase 1	-1.109	6.575	Down
27143	PALD1	phosphatase domain containing paladin 1	-2.427	2.51	Down
5092	PCBD1	pterin-4 alpha-carbinolamine dehydratase 1	-1.024	7.598	Down
54541	DDIT4	DNA damage inducible transcript 4	-1.191	3.825	Down
54788	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12	-0.86	10.666	Down
11319	ECD	ecdysoneless cell cycle regulator	-0.879	5.999	Down

317662	FAM149B1	family with sequence similarity 149 member B1	-0.404	1.687	Down
23234	DNAJC9	DnaJ heat shock protein family (Hsp40) member C9	-0.845	5.082	Down
51021	MRPS16	mitochondrial ribosomal protein S16	-0.786	4.607	Down
310	ANXA7	annexin A7	-0.819	6.116	Down
9632	SEC24C	SEC24 homolog C, COPII coat complex component	-0.551	2.085	Down
118487	CHCHD1	coiled-coil-helix-coiled-coil-helix domain containing 1	-1.144	4.98	Down
7414	VCL	vinculin	-0.566	1.663	Down
26985	AP3M1	adaptor related protein complex 3 subunit mu 1	-0.744	3.279	Down
132	ADK	adenosine kinase	-0.654	2.063	Down
118881	COMTD1	catechol-O-methyltransferase domain containing 1	-1.267	4.055	Down
10105	PPIF	peptidylprolyl isomerase F	-1.714	7.465	Down
143244	EIF5AL1	eukaryotic translation initiation factor 5A like 1	-2.579	38.457	Down
1E+08	LOC100130698	uncharacterized LOC100130698	-2.944	7.75	Down
27069	GHITM	growth hormone inducible transmembrane protein	-0.875	4.168	Down
55328	RNLS	renalase, FAD dependent amine oxidase	-1.425	5.716	Down
118932	ANKRD22	ankyrin repeat domain 22	-1.969	1.928	Down
355	FAS	Fas cell surface death receptor	-2.818	12.579	Down
3437	IFIT3	interferon induced protein with tetratricopeptide repeats 3	-4.139	5.148	Down
1.08E+08	LOC107984251	uncharacterized LOC107984251	-1.03	1.618	Down
24138	IFIT5	interferon induced protein with tetratricopeptide repeats 5	-1.167	4.536	Down
10556	RPP30	ribonuclease P/MRP subunit p30	-0.849	4.57	Down
143279	HECTD2	HECT domain E3 ubiquitin protein ligase 2	-1.043	2.775	Down
9044	BTAF1	B-TFIID TATA-box binding protein associated factor 1	-0.656	2.582	Down
3416	IDE	insulin degrading enzyme	-1.337	13.854	Down
55165	CEP55	centrosomal protein 55	-2.011	3.392	Down
266971	PIPSL	PIP5K1A and PSMD4 like (pseudogene)	-0.943	5.289	Down
64318	NOC3L	NOC3 like DNA replication regulator	-1.13	11.965	Down
3070	HELLS	helicase, lymphoid specific	-2.441	12.212	Down

5832	ALDH18A1	aldehyde dehydrogenase 18 family member A1	-1.104	6.49	Down
953	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1	-0.428	1.995	Down
54619	CCNJ	cyclin J	-0.47	1.557	Down
23223	RRP12	ribosomal RNA processing 12 homolog	-2.112	14.864	Down
5223	PGAM1	phosphoglycerate mutase 1	-2.176	14.635	Down
51013	EXOSC1	exosome component 1	-0.812	4.403	Down
84287	ZDHHC16	zinc finger DHHC-type palmitoyltransferase 16	-1.732	19.71	Down
2805	GOT1	glutamic-oxaloacetic transaminase 1	-1.592	4.571	Down
57089	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7	-0.892	5.43	Down
1147	CHUK	component of inhibitor of nuclear factor kappa B kinase complex	-1.022	4.882	Down
6319	SCD	stearoyl-CoA desaturase	-2.537	7.201	Down
4714	NDUFB8	NADH:ubiquinone oxidoreductase subunit B8	-1.018	3.19	Down
56652	TWNK	twinkle mtDNA helicase	-0.484	1.574	Down
10360	NPM3	nucleophosmin/nucleoplasmin 3	-1.591	4.101	Down
79591	ARMH3	armadillo like helical domain containing 3	-0.243	1.674	Down
23082	PPRC1	PPARG related coactivator 1	-0.784	3.847	Down
9221	NOLC1	nucleolar and coiled-body phosphoprotein 1	-1.321	10.51	Down
8729	GBF1	golgi brefeldin A resistant guanine nucleotide exchange factor 1	-0.549	2.073	Down
4791	NFKB2	nuclear factor kappa B subunit 2	-2.484	14.134	Down
79004	CUEDC2	CUE domain containing 2	-0.645	1.588	Down
79847	MFSD13A	major facilitator superfamily domain containing 13A	-0.566	3.401	Down
10121	ACTR1A	actin related protein 1A	-0.793	6.912	Down
118980	SFXN2	sideroflexin 2	-1.678	11.097	Down
84833	ATP5MK	ATP synthase membrane subunit k	-0.699	1.579	Down
22984	PDCD11	programmed cell death 11	-0.995	4.1	Down
9148	NEURL1	neuralized E3 ubiquitin protein ligase 1	-1.78	7.036	Down
7511	XPNPEP1	X-prolyl aminopeptidase 1	-1.34	5.369	Down
1847	DUSP5	dual specificity phosphatase 5	-3.453	8.653	Down

51703	ACSL5	acyl-CoA synthetase long chain family member 5	-1.1	7.566	Down
64429	ZDHHC6	zinc finger DHHC-type palmitoyltransferase 6	-0.557	3.603	Down
840	CASP7	caspase 7	-1.148	4.543	Down
9937	DCLRE1A	DNA cross-link repair 1A	-0.763	5.426	Down
374354	NHLRC2	NHL repeat containing 2	-0.424	1.665	Down
142940	TRUB1	TruB pseudouridine synthase family member 1	-0.616	1.846	Down
8661	EIF3A	eukaryotic translation initiation factor 3 subunit A	-0.567	1.431	Down
119559	SFXN4	sideroflexin 4	-1.682	16.109	Down
10935	PRDX3	peroxiredoxin 3	-1.438	10.95	Down
7073	TIAL1	TIA1 cytotoxic granule associated RNA binding protein like 1	-0.238	1.918	Down
1.05E+08	LOC105378512	uncharacterized LOC105378512	-0.881	5.441	Down
22876	INPP5F	inositol polyphosphate-5-phosphatase F	-0.636	3.172	Down
11196	SEC23IP	SEC23 interacting protein	-0.4	1.474	Down
55717	WDR11	WD repeat domain 11	-1.026	12.174	Down
1.05E+08	LOC105378519	uncharacterized LOC105378519	-0.868	1.395	Down
54780	NSMCE4A	NSE4 homolog A, SMC5-SMC6 complex component	-0.904	5.415	Down
9184	BUB3	BUB3 mitotic checkpoint protein	-0.373	2.06	Down
4942	OAT	ornithine aminotransferase	-0.842	7.05	Down
7390	UROS	uroporphyrinogen III synthase	-0.626	2.472	Down
56647	BCCIP	BRCA2 and CDKN1A interacting protein	-1.25	8.289	Down
10539	GLRX3	glutaredoxin 3	-1.431	10.019	Down
664	BNIP3	BCL2 interacting protein 3	-0.862	1.356	Down
282973	JAKMIP3	Janus kinase and microtubule interacting protein 3	-1.474	1.946	Down
282974	STK32C	serine/threonine kinase 32C	-1.131	3.048	Down
101	ADAM8	ADAM metallopeptidase domain 8	-1.259	8.294	Down
10844	TUBGCP2	tubulin gamma complex associated protein 2	-0.464	2.525	Down
118472	ZNF511	zinc finger protein 511	-1.28	6.963	Down
282969	FUOM	fucose mutarotase	-2.652	29.842	Down

1892	ECHS1	enoyl-CoA hydratase, short chain 1	-0.866	7.726	Down
196743	PAOX	polyamine oxidase	-0.951	4.891	Down
92170	MTG1	mitochondrial ribosome associated GTPase 1	-1.157	7.627	Down
60626	RIC8A	RIC8 guanine nucleotide exchange factor A	-0.463	2.398	Down
5719	PSMD13	proteasome 26S subunit, non-ATPase 13	-1.452	10.391	Down
6050	RNH1	ribonuclease/angiogenin inhibitor 1	-0.866	4.781	Down
1.01E+08	LOC101059906		-1.617	2.114	Down
3265	HRAS	HRas proto-oncogene, GTPase	-1.134	8.056	Down
3665	IRF7	interferon regulatory factor 7	-1.39	2.492	Down
6888	TALDO1	transaldolase 1	-1.431	5.943	Down
51286	CEND1	cell cycle exit and neuronal differentiation 1	-4.155	3.147	Down
79751	SLC25A22	solute carrier family 25 member 22	-2.264	29.52	Down
1.02E+08	PANO1	proapoptotic nucleolar protein 1	-1.077	1.49	Down
977	CD151	CD151 molecule (Raph blood group)	-1.128	2.37	Down
5441	POLR2L	RNA polymerase II, I and III subunit L	-1.568	9.803	Down
7106	TSPAN4	tetraspanin 4	-1.134	3.162	Down
66005	CHID1	chitinase domain containing 1	-0.802	3.157	Down
9024	BRSK2	BR serine/threonine kinase 2	-1.672	1.931	Down
6150	MRPL23	mitochondrial ribosomal protein L23	-1.584	6.844	Down
3481	IGF2	insulin like growth factor 2	-6.724	9.279	Down
723961	INS-IGF2	INS-IGF2 readthrough	-7.858	7.616	Down
430	ASCL2	achaete-scute family bHLH transcription factor 2	-1.491	2.794	Down
1.02E+08	CD81-AS1	CD81 antisense RNA 1	-0.621	2.158	Down
975	CD81	CD81 molecule	-0.553	5.831	Down
10078	TSSC4	tumor suppressing subtransferable candidate 4	-0.426	1.552	Down
7262	PHLDA2	pleckstrin homology like domain family A member 2	-3.088	7.618	Down
4676	NAP1L4	nucleosome assembly protein 1 like 4	-0.418	1.769	Down
833	CARS1	cysteinyl-tRNA synthetase 1	-1.106	4.895	Down

1.01E+08	CARS1-AS1	CARS1 antisense RNA 1	-1.137	5.201	Down
6737	TRIM21	tripartite motif containing 21	-2.047	12.756	Down
23647	ARFIP2	ADP ribosylation factor interacting protein 2	-0.439	1.457	Down
3611	ILK	integrin linked kinase	-0.842	2.448	Down
63875	MRPL17	mitochondrial ribosomal protein L17	-0.964	3.146	Down
619562	SNORA3A	small nucleolar RNA, H/ACA box 3A	-2.603	2.13	Down
7465	WEE1	WEE1 G2 checkpoint kinase	-1.157	5.357	Down
1982	EIF4G2	eukaryotic translation initiation factor 4 gamma 2	-0.79	10.455	Down
374378	GALNT18	polypeptide N-acetylgalactosaminyltransferase 18	-0.983	2.967	Down
283106	CSNK2A3	casein kinase 2 alpha 3	-0.957	6.315	Down
9645	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2	-1.72	4.633	Down
84280	BTBD10	BTB domain containing 10	-0.711	2.03	Down
84188	FAR1	fatty acyl-CoA reductase 1	-0.481	2.354	Down
22800	RRAS2	RAS related 2	-1.68	15.623	Down
1315	COPB1	COPI coat complex subunit beta 1	-0.871	5.241	Down
5682	PSMA1	proteasome 20S subunit alpha 1	-1.867	21.484	Down
113174	SAAL1	serum amyloid A like 1	-1.132	6.298	Down
3939	LDHA	lactate dehydrogenase A	-1.673	4.703	Down
7251	TSG101	tumor susceptibility 101	-0.778	2.691	Down
55293	UEVLD	UEV and lactate/malate dehyrogenase domains	-1.625	14.673	Down
1.01E+08	MISFA	mitochondrial sheath formation associated	-0.68	2.28	Down
144108	SPTY2D1	SPT2 chromatin protein domain containing 1	-0.705	3.972	Down
54503	ZDHHC13	zinc finger DHHC-type palmitoyltransferase 13	-0.784	5.715	Down
10553	HTATIP2	HIV-1 Tat interactive protein 2	-0.427	1.859	Down
10196	PRMT3	protein arginine methyltransferase 3	-0.69	2.267	Down
55327	LIN7C	lin-7 homolog C, crumbs cell polarity complex component	-0.635	1.667	Down
81930	KIF18A	kinesin family member 18A	-1.668	2.98	Down
5954	RCN1	reticulocalbin 1	-2.203	11.143	Down

79056	PRRG4	proline rich and Gla domain 4	-1.696	1.372	Down
1479	CSTF3	cleavage stimulation factor subunit 3	-0.668	3.176	Down
966	CD59	CD59 molecule (CD59 blood group)	-0.596	2.755	Down
1.02E+08	LOC101929918	uncharacterized LOC101929918	-0.92	3.761	Down
4076	CAPRIN1	cell cycle associated protein 1	-0.877	6.525	Down
55226	NAT10	N-acetyltransferase 10	-0.979	8.538	Down
24147	FJX1	four-jointed box kinase 1	-3.228	2.964	Down
143458	LDLRAD3	low density lipoprotein receptor class A domain containing 3	-2.465	3.285	Down
79899	PRR5L	proline rich 5 like	-1.091	1.527	Down
8539	API5	apoptosis inhibitor 5	-0.649	2.973	Down
51144	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12	-0.736	4.427	Down
1.08E+08	LOC107984328	uncharacterized LOC107984328	-0.866	2.676	Down
2132	EXT2	exostosin glycosyltransferase 2	-0.421	1.697	Down
3732	CD82	CD82 molecule	-1.331	8.4	Down
9537	TP53I11	tumor protein p53 inducible protein 11	-1.645	5.09	Down
120071	LARGE2	LARGE xylosyl- and glucuronyltransferase 2	-1.254	2.607	Down
4192	MDK	midkine	-2.328	3.446	Down
79096	CSTPP1	centriolar satellite-associated tubulin polyglutamylase complex regulator 1	-0.619	3.942	Down
29763	PACSIN3	protein kinase C and casein kinase substrate in neurons 3	-3.34	11.617	Down
53	ACP2	acid phosphatase 2, lysosomal	-1.421	8.412	Down
5702	PSMC3	proteasome 26S subunit, ATPase 3	-1.75	15.937	Down
114971	PTPMT1	protein tyrosine phosphatase mitochondrial 1	-0.516	1.566	Down
4722	NDUFS3	NADH:ubiquinone oxidoreductase core subunit S3	-0.711	2.391	Down
23788	MTCH2	mitochondrial carrier 2	-1.339	9.934	Down
23279	NUP160	nucleoporin 160	-0.568	1.684	Down
6749	SSRP1	structure specific recognition protein 1	-1.004	13.373	Down
1.05E+08	LOC105369312		-2.688	1.776	Down
29015	SLC43A3	solute carrier family 43 member 3	-2.992	54.193	Down

26519	TIMM10	translocase of inner mitochondrial membrane 10	-1.138	2.731	Down
9246	UBE2L6	ubiquitin conjugating enzyme E2 L6	-1.563	8.251	Down
10978	CLP1	cleavage factor polyribonucleotide kinase subunit 1	-0.46	1.486	Down
25921	ZDHHC5	zinc finger DHHC-type palmitoyltransferase 5	-0.4	2.093	Down
219541	MED19	mediator complex subunit 19	-0.918	3.19	Down
51075	TMX2	thioredoxin related transmembrane protein 2	-0.528	1.39	Down
280636	SELENOH	selenoprotein H	-0.925	2.049	Down
9404	LPXN	leupaxin	-0.648	1.334	Down
80829	ZFP91	ZFP91 zinc finger protein, atypical E3 ubiquitin ligase	-0.554	3.546	Down
386607	ZFP91-CNTF	ZFP91-CNTF readthrough (NMD candidate)	-0.659	3.123	Down
374393	FAM111B	FAM111 trypsin like peptidase B	-3.395	5.462	Down
54948	MRPL16	mitochondrial ribosomal protein L16	-0.751	3.693	Down
79080	CCDC86	coiled-coil domain containing 86	-2.302	23.864	Down
27339	PRPF19	pre-mRNA processing factor 19	-0.886	13.967	Down
1.05E+08	LOC105369325	uncharacterized LOC105369325	-2.041	8.057	Down
55048	VPS37C	VPS37C subunit of ESCRT-I	-0.491	1.399	Down
220001	VWCE	von Willebrand factor C and EGF domains	-2.574	3.356	Down
1642	DDB1	damage specific DNA binding protein 1	-0.976	5.262	Down
51524	TMEM138	transmembrane protein 138	-0.346	1.316	Down
9066	SYT7	synaptotagmin 7	-2.51	2.087	Down
2237	FEN1	flap structure-specific endonuclease 1	-1.686	21.978	Down
3992	FADS1	fatty acid desaturase 1	-2.105	1.519	Down
3995	FADS3	fatty acid desaturase 3	-0.683	1.6	Down
80150	ASRGL1	asparaginase and isoaspartyl peptidase 1	-1.446	3.436	Down
9219	MTA2	metastasis associated 1 family member 2	-0.644	8.417	Down
79081	LBHD1	LBH domain containing 1	-1.239	6.424	Down
1.02E+08	C11orf98	chromosome 11 open reading frame 98	-1.337	6.914	Down
10629	TAF6L	TATA-box binding protein associated factor 6 like	-0.516	2.523	Down

1.05E+08	STX5-DT	STX5 divergent transcript	-0.575	2.801	Down
54663	WDR74	WD repeat domain 74	-0.587	2.977	Down
6520	SLC3A2	solute carrier family 3 member 2	-1.275	6.614	Down
65998	ZFTA	zinc finger translocation associated	-0.663	1.573	Down
144097	SPINDOC	spindlin interactor and repressor of chromatin binding	-0.902	2.975	Down
1351	COX8A	cytochrome c oxidase subunit 8A	-0.641	1.985	Down
55611	OTUB1	OTU deubiquitinase, ubiquitin aldehyde binding 1	-0.815	5.797	Down
10963	STIP1	stress induced phosphoprotein 1	-2.611	22.076	Down
83706	FERMT3	FERM domain containing kindlin 3	-0.814	6.822	Down
2286	FKBP2	FKBP prolyl isomerase 2	-1.041	5.69	Down
1.15E+08	LOC114841035	Uncharacterized protein LOC114841035	-1.024	5.464	Down
26472	PPP1R14B	protein phosphatase 1 regulatory inhibitor subunit 14B	-1.896	11.287	Down
56834	GPR137	G protein-coupled receptor 137	-1.283	12.006	Down
2101	ESRRA	estrogen related receptor alpha	-0.607	2.735	Down
51504	TRMT112	tRNA methyltransferase activator subunit 11-2	-0.682	1.728	Down
25824	PRDX5	peroxiredoxin 5	-0.737	2.506	Down
283234	CCDC88B	coiled-coil domain containing 88B	-1.221	3.086	Down
5526	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta	-0.71	1.78	Down
116071	BATF2	basic leucine zipper ATF-like transcription factor 2	-3.819	3.128	Down
1.01E+08	ARL2-SNX15	ARL2-SNX15 readthrough (NMD candidate)	-0.677	5.674	Down
402	ARL2	ADP ribosylation factor like GTPase 2	-1.358	9.277	Down
113130	CDCA5	cell division cycle associated 5	-2.207	18.47	Down
823	CAPN1	calpain 1	-0.534	9.529	Down
23649	POLA2	DNA polymerase alpha 2, accessory subunit	-1.739	14.614	Down
10435	CDC42EP2	CDC42 effector protein 2	-1.657	3.883	Down
57410	SCYL1	SCY1 like pseudokinase 1	-0.535	3.034	Down
10534	ZNRD2	zinc ribbon domain containing 2	-1.906	20.086	Down
4296	MAP3K11	mitogen-activated protein kinase kinase kinase 11	-0.611	2.313	Down

84153	RNASEH2C	ribonuclease H2 subunit C	-0.783	3.099	Down
254122	SNX32	sorting nexin 32	-1.279	6.798	Down
1072	CFL1	cofilin 1	-1.229	8.452	Down
80198	MUS81	MUS81 structure-specific endonuclease subunit	-0.487	2.844	Down
1521	CTSW	cathepsin W	-0.529	1.67	Down
9158	FIBP	FGF1 intracellular binding protein	-1.153	8.093	Down
8061	FOSL1	FOS like 1, AP-1 transcription factor subunit	-5.439	18.492	Down
10589	DRAP1	DR1 associated protein 1	-1.137	7.001	Down
8815	BANF1	BAF nuclear assembly factor 1	-1.428	24.83	Down
64837	KLC2	kinesin light chain 2	-2.416	16.187	Down
1.05E+08	KLC2-AS1	KLC2 antisense RNA 1	-2.342	12.488	Down
1.05E+08	KLC2-AS2	KLC2 antisense RNA 2	-2.541	2.88	Down
81876	RAB1B	RAB1B, member RAS oncogene family	-0.74	4.242	Down
1.08E+08	LOC107984340	uncharacterized LOC107984340	-0.751	6.772	Down
10897	YIF1A	Yip1 interacting factor homolog A, membrane trafficking protein	-1.53	8.996	Down
25855	BRMS1	BRMS1 transcriptional repressor and anoikis regulator	-0.574	2.594	Down
65003	MRPL11	mitochondrial ribosomal protein L11	-1.358	4.921	Down
10072	DPP3	dipeptidyl peptidase 3	-2.361	36.211	Down
1.01E+08	RBM14-RBM4	RBM14-RBM4 readthrough	-0.622	1.744	Down
10432	RBM14	RNA binding motif protein 14	-0.934	4.838	Down
5936	RBM4	RNA binding motif protein 4	-0.442	1.315	Down
9986	RCE1	Ras converting CAAX endopeptidase 1	-0.489	2.045	Down
78999	LRFN4	leucine rich repeat and fibronectin type III domain containing 4	-0.977	3.225	Down
29984	RHOD	ras homolog family member D	-2.387	2.486	Down
5883	RAD9A	RAD9 checkpoint clamp component A	-0.525	3.837	Down
5499	PPP1CA	protein phosphatase 1 catalytic subunit alpha	-1.098	6.627	Down
57571	CARNS1	carnosine synthase 1	-1.226	2.89	Down
6199	RPS6KB2	ribosomal protein S6 kinase B2	-1.055	9.512	Down

10263	CDK2AP2	cyclin dependent kinase 2 associated protein 2	-1.044	5.295	Down
2950	GSTP1	glutathione S-transferase pi 1	-1.993	11.686	Down
4723	NDUFV1	NADH:ubiquinone oxidoreductase core subunit V1	-0.911	4.267	Down
254552	NUDT8	nudix hydrolase 8	-1.141	2.711	Down
4728	NDUFS8	NADH:ubiquinone oxidoreductase core subunit S8	-0.82	4.53	Down
1119	CHKA	choline kinase alpha	-1.661	10.971	Down
53838	C11orf24	chromosome 11 open reading frame 24	-0.35	1.628	Down
55291	PPP6R3	protein phosphatase 6 regulatory subunit 3	-0.52	2.688	Down
219927	MRPL21	mitochondrial ribosomal protein L21	-0.929	2.484	Down
595	CCND1	cyclin D1	-1.462	1.335	Down
2017	CTTN	cortactin	-2.777	11.467	Down
1717	DHCR7	7-dehydrocholesterol reductase	-1.182	5.901	Down
55298	RNF121	ring finger protein 121	-0.647	6.33	Down
81570	CLPB	caseinolytic mitochondrial matrix peptidase chaperone subunit B	-1.264	3.176	Down
1.05E+08	PDE2A-AS2	PDE2A antisense RNA 2	-0.773	1.68	Down
10809	STARD10	StAR related lipid transfer domain containing 10	-1.348	6.681	Down
84957	RELT	RELT TNF receptor	-1.084	4.661	Down
51287	COA4	cytochrome c oxidase assembly factor 4 homolog	-0.967	4.278	Down
51400	PPME1	protein phosphatase methylesterase 1	-0.619	4.668	Down
9789	SPCS2	signal peptidase complex subunit 2	-0.426	1.454	Down
10825	NEU3	neuraminidase 3	-0.695	3.789	Down
84649	DGAT2	diacylglycerol O-acyltransferase 2	-2.415	9.033	Down
1.02E+08	LINC02757	long intergenic non-protein coding RNA 2757	-5.873	3.887	Down
2615	LRRC32	leucine rich repeat containing 32	-3.48	9.097	Down
1.08E+08	LOC107984360		-2.969	5.296	Down
55331	ACER3	alkaline ceramidase 3	-0.571	1.326	Down
92105	INTS4	integrator complex subunit 4	-0.629	5.895	Down
1.01E+08	NDUFC2-KCTD14	NDUFC2-KCTD14 readthrough	-0.794	2.446	Down

4718	NDUFC2	NADH:ubiquinone oxidoreductase subunit C2	-0.57	1.476	Down
79053	ALG8	ALG8 alpha-1,3-glucosyltransferase	-0.797	2.537	Down
220042	DDIAS	DNA damage induced apoptosis suppressor	-2.039	15.414	Down
27314	RAB30	RAB30, member RAS oncogene family	-1.283	11.29	Down
55863	TMEM126B	transmembrane protein 126B	-0.682	1.635	Down
84233	TMEM126A	transmembrane protein 126A	-1.104	3.573	Down
8726	EED	embryonic ectoderm development	-1.783	33.743	Down
51501	HIKESHI	heat shock protein nuclear import factor hikeshi	-0.549	1.404	Down
10873	ME3	malic enzyme 3	-1.752	3.805	Down
11098	PRSS23	serine protease 23	-1.541	1.593	Down
65084	TMEM135	transmembrane protein 135	-0.446	2.69	Down
1075	CTSC	cathepsin C	-0.596	1.427	Down
26973	CHORDC1	cysteine and histidine rich domain containing 1	-1.525	9.744	Down
56935	SMCO4	single-pass membrane protein with coiled-coil domains 4	-0.787	1.604	Down
24145	PANX1	pannexin 1	-0.891	3.177	Down
51503	CWC15	CWC15 spliceosome associated protein homolog	-0.626	2.144	Down
8898	MTMR2	myotubularin related protein 2	-1.721	22.78	Down
330	BIRC3	baculoviral IAP repeat containing 3	-1.132	4.747	Down
84259	DCUN1D5	defective in cullin neddylation 1 domain containing 5	-1.321	13.097	Down
643733	CASP4LP	caspase 4 like, pseudogene	-1.667	4.12	Down
837	CASP4	caspase 4	-0.608	1.343	Down
84437	MSANTD4	Myb/SANT DNA binding domain containing 4 with coiled-coils	-0.879	9.267	Down
54733	SLC35F2	solute carrier family 35 member F2	-1.216	17.776	Down
8065	CUL5	cullin 5	-0.248	1.907	Down
38	ACAT1	acetyl-CoA acetyltransferase 1	-0.939	9.502	Down
1662	DDX10	DEAD-box helicase 10	-1.319	7.506	Down
5962	RDX	radixin	-1.565	12.39	Down
5519	PPP2R1B	protein phosphatase 2 scaffold subunit Abeta	-1.226	9.607	Down

79796	ALG9	ALG9 alpha-1,2-mannosyltransferase	-0.347	2.138	Down
91893	FDXACB1	ferredoxin-fold anticodon binding domain containing 1	-0.823	5.268	Down
1737	DLAT	dihydrolipoamide S-acetyltransferase	-1.033	14.64	Down
120379	PIH1D2	PIH1 domain containing 2	-0.937	6.852	Down
26521	TIMM8B	translocase of inner mitochondrial membrane 8 homolog B	-1.032	2.894	Down
5805	PTS	6-pyruvoyltetrahydropterin synthase	-1.416	8.941	Down
9183	ZW10	zw10 kinetochore protein	-0.806	4.86	Down
8882	ZPR1	ZPR1 zinc finger	-0.739	5.466	Down
196264	MPZL3	myelin protein zero like 3	-1.078	4.312	Down
10205	MPZL2	myelin protein zero like 2	-3.457	27.12	Down
9354	UBE4A	ubiquitination factor E4A	-0.551	1.925	Down
372	ARCN1	archain 1	-0.637	2.85	Down
23187	PHLDB1	pleckstrin homology like domain family B member 1	-1.427	1.966	Down
51399	TRAPPC4	trafficking protein particle complex subunit 4	-0.942	2.387	Down
10525	HYOU1	hypoxia up-regulated 1	-1.468	15.461	Down
3145	HMBS	hydroxymethylbilane synthase	-1.839	7.638	Down
3014	H2AX	H2A.X variant histone	-1.285	8.414	Down
1798	DPAGT1	dolichyl-phosphate N-acetylglucosaminephosphotransferase 1	-0.754	5.052	Down
79671	NLRX1	NLR family member X1	-0.464	1.889	Down
220323	OAF	out at first homolog	-0.945	2.186	Down
23365	ARHGEF12	Rho guanine nucleotide exchange factor 12	-1.28	3.832	Down
56253	CRTAM	cytotoxic and regulatory T cell molecule	-0.842	1.387	Down
3312	HSPA8	heat shock protein family A (Hsp70) member 8	-1.362	7.724	Down
57476	GRAMD1B	GRAM domain containing 1B	-1.246	3.595	Down
53340	SPA17	sperm autoantigenic protein 17	-1.321	1.327	Down
9638	FEZ1	fasciculation and elongation protein zeta 1	-3.907	6.277	Down
3703	STT3A	STT3 oligosaccharyltransferase complex catalytic subunit A	-0.737	4.094	Down
1111	CHEK1	checkpoint kinase 1	-2.963	37.6	Down

79607	FAM118B	family with sequence similarity 118 member B	-0.597	2.408	Down
6734	SRPRA	SRP receptor subunit alpha	-0.569	3.165	Down
55572	FOXRED1	FAD dependent oxidoreductase domain containing 1	-0.826	5.002	Down
28960	DCPS	decapping enzyme, scavenger	-1.353	7.327	Down
6484	ST3GAL4	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-0.918	2.885	Down
89944	GLB1L2	galactosidase beta 1 like 2	-1.642	3.911	Down
1.08E+08	LOC107987373	replaced by ID 6150	-1.598	8.286	Down
6539	SLC6A12	solute carrier family 6 member 12	-2.4	1.703	Down
79602	ADIPOR2	adiponectin receptor 2	-0.592	1.724	Down
2288	FKBP4	FKBP prolyl isomerase 4	-1.826	21.763	Down
1.04E+08	CCND2-AS1	CCND2 antisense RNA 1	-2.965	29.071	Down
894	CCND2	cyclin D2	-2.131	35.457	Down
57103	TIGAR	TP53 induced glycolysis regulatory phosphatase	-0.987	7.217	Down
57102	C12orf4	chromosome 12 open reading frame 4	-0.919	7.803	Down
10635	RAD51AP1	RAD51 associated protein 1	-2.898	9.528	Down
4704	NDUFA9	NADH:ubiquinone oxidoreductase subunit A9	-1.754	19.244	Down
55080	TAPBPL	TAP binding protein like	-0.842	3.486	Down
51258	MRPL51	mitochondrial ribosomal protein L51	-0.986	3.539	Down
2597	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	-1.262	3.568	Down
4839	NOP2	NOP2 nucleolar protein	-1.227	9.996	Down
1108	CHD4	chromodomain helicase DNA binding protein 4	-1.181	5.379	Down
8079	MLF2	myeloid leukemia factor 2	-1.003	10.01	Down
5763	PTMS	parathymosin	-2.463	5.223	Down
3902	LAG3	lymphocyte activating 3	-3.239	14.569	Down
8078	USP5	ubiquitin specific peptidase 5	-1.283	17.042	Down
7167	TPI1	triosephosphate isomerase 1	-1.827	6.509	Down
1822	ATN1	atrophin 1	-1.058	3.347	Down
5777	PTPN6	protein tyrosine phosphatase non-receptor type 6	-1.538	24.557	Down

11331	PHB2	prohibitin 2	-0.799	2.407	Down
10436	EMG1	EMG1 N1-specific pseudouridine methyltransferase	-0.741	4.875	Down
715	C1R	complement C1r	-1.136	1.35	Down
93978	CLEC6A	C-type lectin domain containing 6A	-3.448	1.763	Down
29121	CLEC2D	C-type lectin domain family 2 member D	-0.507	3.5	Down
969	CD69	CD69 molecule	-4.13	23.226	Down
55110	MAGOHB	mago homolog B, exon junction complex subunit	-1.765	34.259	Down
8531	YBX3	Y-box binding protein 3	-1.784	3.884	Down
2120	ETV6	ETS variant transcription factor 6	-0.828	2.007	Down
79370	BCL2L14	BCL2 like 14	-5.125	6.581	Down
54682	MANSC1	MANSC domain containing 1	-1.999	3.025	Down
51202	DDX47	DEAD-box helicase 47	-0.839	3.258	Down
57613	FAM234B	family with sequence similarity 234 member B	-0.599	3.562	Down
51729	WBP11	WW domain binding protein 11	-0.319	1.584	Down
1.03E+08	LOC102724146	uncharacterized LOC102724146	-1.227	7.881	Down
11171	STRAP	serine/threonine kinase receptor associated protein	-1.153	6.988	Down
121536	AEBP2	AE binding protein 2	-0.552	2.21	Down
79912	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1	-0.921	5.626	Down
51026	GOLT1B	golgi transport 1B	-0.479	1.977	Down
55500	ETNK1	ethanolamine kinase 1	-1.115	5.672	Down
55726	INTS13	integrator complex subunit 13	-0.572	2.88	Down
26127	FGFR1OP2	FGFR1 oncogene partner 2	-0.341	1.847	Down
8496	PPFIBP1	PPFIA binding protein 1	-0.713	1.33	Down
60488	MRPS35	mitochondrial ribosomal protein S35	-0.728	2.709	Down
55711	FAR2	fatty acyl-CoA reductase 2	-0.562	1.445	Down
58516	SINHCAF	SIN3-HDAC complex associated factor	-0.452	1.506	Down
1.01E+08	DENND5B-AS1	DENND5B antisense RNA 1	-2.417	2.609	Down
440093	H3-5	H3.5 histone	-0.844	3.599	Down

10059	DNM1L	dynamin 1 like	-1.071	10.244	Down
51067	YARS2	tyrosyl-tRNA synthetase 2	-0.894	8.03	Down
55605	KIF21A	kinesin family member 21A	-1.133	2.397	Down
51535	PPHLN1	periphilin 1	-0.385	2.357	Down
83448	PUS7L	pseudouridine synthase 7 like	-0.464	2.682	Down
5756	TWF1	twinfilin actin binding protein 1	-0.549	3.149	Down
1.08E+08	LINC02416	long intergenic non-protein coding RNA 2416	-4.09	3.793	Down
10411	RAPGEF3	Rap guanine nucleotide exchange factor 3	-1.719	2.028	Down
55652	SLC48A1	solute carrier family 48 member 1	-0.585	2.511	Down
51564	HDAC7	histone deacetylase 7	-1.226	12.206	Down
7421	VDR	vitamin D receptor	-3.34	23.043	Down
29843	SENP1	SUMO specific peptidase 1	-0.693	11.506	Down
5213	PFKM	phosphofructokinase, muscle	-1.158	20.698	Down
23519	ANP32D	acidic nuclear phosphoprotein 32 family member D	-1.051	1.889	Down
9416	DDX23	DEAD-box helicase 23	-0.368	1.885	Down
27289	RND1	Rho family GTPase 1	-2.401	7.825	Down
51303	FKBP11	FKBP prolyl isomerase 11	-0.601	1.814	Down
377	ARF3	ADP ribosylation factor 3	-0.803	6.895	Down
23109	DDN	dendrin	-2.522	1.661	Down
5571	PRKAG1	protein kinase AMP-activated non-catalytic subunit gamma 1	-0.527	2.014	Down
121268	RHEBL1	RHEB like 1	-1.668	3.877	Down
10376	TUBA1B	tubulin alpha 1b	-3.121	46.856	Down
1.05E+08	TUBA1B-AS1	TUBA1B antisense RNA 1	-2.896	5.107	Down
7846	TUBA1A	tubulin alpha 1a	-1.8	18.134	Down
84790	TUBA1C	tubulin alpha 1c	-3.135	26.323	Down
65244	SPATS2	spermatogenesis associated serine rich 2	-1.202	10.804	Down
10445	MCRS1	microspherule protein 1	-0.585	3.025	Down
91010	FMNL3	formin like 3	-0.526	1.347	Down

29127	RACGAP1	Rac GTPase activating protein 1	-0.499	1.933	Down
41	ASIC1	acid sensing ion channel subunit 1	-1.43	1.38	Down
6602	SMARCD1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1	-0.367	1.792	Down
91012	CERS5	ceramide synthase 5	-0.494	1.896	Down
51474	LIMA1	LIM domain and actin binding 1	-2.272	6.664	Down
113251	LARP4	La ribonucleoprotein 4	-1.568	30.557	Down
4891	SLC11A2	solute carrier family 11 member 2	-0.759	7.291	Down
11226	GALNT6	polypeptide N-acetylgalactosaminyltransferase 6	-1.502	5.436	Down
3164	NR4A1	nuclear receptor subfamily 4 group A member 1	-6.196	27.534	Down
60673	ATG101	autophagy related 101	-0.967	4.587	Down
84926	SPRYD3	SPRY domain containing 3	-0.59	1.477	Down
3695	ITGB7	integrin subunit beta 7	-0.645	2.577	Down
5916	RARG	retinoic acid receptor gamma	-0.964	5.934	Down
84975	MFSD5	major facilitator superfamily domain containing 5	-0.574	2.049	Down
9700	ESPL1	extra spindle pole bodies like 1, separase	-2.866	4.653	Down
8086	AAAS	aladin WD repeat nucleoporin	-1.049	6.696	Down
54458	PRR13	proline rich 13	-0.504	2.149	Down
6895	TARBP2	TARBP2 subunit of RISC loading complex	-1.001	3.288	Down
3178	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	-0.9	3.856	Down
5153	PDE1B	phosphodiesterase 1B	-0.991	1.603	Down
967	CD63	CD63 molecule	-0.814	2.114	Down
84324	SARNP	SAP domain containing ribonucleoprotein	-0.871	4.423	Down
29095	ORMDL2	ORMDL sphingolipid biosynthesis regulator 2	-0.853	4.37	Down
1017	CDK2	cyclin dependent kinase 2	-1.554	18.021	Down
64375	IKZF4	IKAROS family zinc finger 4	-1.391	3.221	Down
1.05E+08	LOC105369781	uncharacterized LOC105369781	-1.497	1.638	Down
5036	PA2G4	proliferation-associated 2G4	-1.086	9.693	Down
140465	MYL6B	myosin light chain 6B	-1.772	4.18	Down

4637	MYL6	myosin light chain 6	-0.982	2.974	Down
79035	NABP2	nucleic acid binding protein 2	-1.306	14.911	Down
283373	ANKRD52	ankyrin repeat domain 52	-0.694	2.663	Down
1431	CS	citrate synthase	-0.96	6.118	Down
10330	CNPY2	canopy FGF signaling regulator 2	-0.948	4.341	Down
1.12E+08	CNPY2-AS1	CNPY2 antisense RNA 1	-0.924	1.581	Down
51561	IL23A	interleukin 23 subunit alpha	-1.881	14.41	Down
8914	TIMELESS	timeless circadian regulator	-1.49	10.905	Down
1.07E+08	SNORA105C	small nucleolar RNA, H/ACA box 105C	-1.625	6.077	Down
506	ATP5F1B	ATP synthase F1 subunit beta	-1.353	12.665	Down
10728	PTGES3	prostaglandin E synthase 3	-0.931	6.191	Down
23306	NEMP1	nuclear envelope integral membrane protein 1	-1.096	4.452	Down
4665	NAB2	NGFI-A binding protein 2	-1.377	3.619	Down
6778	STAT6	signal transducer and activator of transcription 6	-0.689	4.019	Down
6472	SHMT2	serine hydroxymethyltransferase 2	-1.694	8.981	Down
56901	NDUFA4L2	NDUFA4 mitochondrial complex associated like 2	-1.585	1.585	Down
4141	MARS1	methionyl-tRNA synthetase 1	-2.141	14.138	Down
10540	DCTN2	dynactin subunit 2	-0.453	1.638	Down
196403	DTX3	deltex E3 ubiquitin ligase 3	-0.661	1.767	Down
115557	ARHGEF25	Rho guanine nucleotide exchange factor 25	-2.278	2.745	Down
2583	B4GALNT1	beta-1,4-N-acetyl-galactosaminyltransferase 1	-2.381	1.73	Down
6302	TSPAN31	tetraspanin 31	-1.075	3.357	Down
1019	CDK4	cyclin dependent kinase 4	-1.415	7.756	Down
1594	CYP27B1	cytochrome P450 family 27 subfamily B member 1	-2.241	3.526	Down
4234	METTL1	methyltransferase 1, tRNA methylguanosine	-1.986	10.375	Down
10102	TSFM	Ts translation elongation factor, mitochondrial	-0.869	2.796	Down
1.05E+08	LOC105369783	uncharacterized LOC105369783	-3.379	3.556	Down
283416	LINC01465	long intergenic non-protein coding RNA 1465	-1.859	1.446	Down

10329	RXYLT1	ribitol xylosyltransferase 1	-0.737	2.247	Down
29110	TBK1	TANK binding kinase 1	-0.976	6.525	Down
84298	LLPH	LLP homolog, long-term synaptic facilitation factor	-0.759	6.041	Down
55832	CAND1	cullin associated and neddylation dissociated 1	-0.573	2.101	Down
3458	IFNG	interferon gamma	-10.186	40.228	Down
55801	IL26	interleukin 26	-7.142	13.448	Down
50616	IL22	interleukin 22	-9.626	9.378	Down
57122	NUP107	nucleoporin 107	-1.009	3.767	Down
4193	MDM2	MDM2 proto-oncogene	-0.669	8.723	Down
11052	CPSF6	cleavage and polyadenylation specific factor 6	-0.863	6.634	Down
10576	CCT2	chaperonin containing TCP1 subunit 2	-1.688	10.618	Down
23011	RAB21	RAB21, member RAS oncogene family	-0.381	1.338	Down
11103	KRR1	KRR1 small subunit processome component homolog	-0.673	8.799	Down
22822	PHLDA1	pleckstrin homology like domain family A member 1	-1.431	4.958	Down
144455	E2F7	E2F transcription factor 7	-3.108	2.757	Down
1848	DUSP6	dual specificity phosphatase 6	-2.485	11.641	Down
1.01E+08	POC1B-GALNT4	POC1B-GALNT4 readthrough	-1.683	10.242	Down
8693	GALNT4	polypeptide N-acetylgalactosaminyltransferase 4	-1.811	11.572	Down
1.05E+08	LOC105369905	uncharacterized LOC105369905	-1.997	1.766	Down
7334	UBE2N	ubiquitin conjugating enzyme E2 N	-1.347	6.899	Down
28977	MRPL42	mitochondrial ribosomal protein L42	-0.392	2.341	Down
10988	METAP2	methionyl aminopeptidase 2	-0.553	3.568	Down
6636	SNRPF	small nuclear ribonucleoprotein polypeptide F	-1.2	6.104	Down
1.03E+08	LOC102723340	uncharacterized LOC102723340	-0.539	1.688	Down
4048	LTA4H	leukotriene A4 hydrolase	-0.707	3.374	Down
7112	TMPO	thymopoietin	-0.528	3.663	Down
5250	SLC25A3	solute carrier family 25 member 3	-0.591	1.787	Down
23074	BLTP3B	bridge-like lipid transfer protein family member 3B	-1.24	15.886	Down

27340	UTP20	UTP20 small subunit processome component	-1.891	17.333	Down
400	ARL1	ADP ribosylation factor like GTPase 1	-0.62	1.783	Down
55332	DRAM1	DNA damage regulated autophagy modulator 1	-1.127	2.256	Down
79023	NUP37	nucleoporin 37	-1.062	6.318	Down
55010	PARPBP	PARP1 binding protein	-1.055	1.755	Down
7184	HSP90B1	heat shock protein 90 beta family member 1	-1.025	8.773	Down
1.01E+08	MIR3652	microRNA 3652	-0.923	4.555	Down
6996	TDG	thymine DNA glycosylase	-0.926	10.278	Down
7296	TXNRD1	thioredoxin reductase 1	-1.311	7.992	Down
50515	CHST11	carbohydrate sulfotransferase 11	-0.925	6.908	Down
84102	SLC41A2	solute carrier family 41 member 2	-1.218	1.461	Down
10970	CKAP4	cytoskeleton associated protein 4	-0.498	1.605	Down
55703	POLR3B	RNA polymerase III subunit B	-1.078	3.917	Down
11137	PWP1	PWP1 homolog, endonuclein	-0.77	5.056	Down
11153	FICD	FIC domain protein adenylyltransferase	-1.122	4.366	Down
23603	CORO1C	coronin 1C	-0.737	2.018	Down
1E+08	USP30-AS1	USP30 antisense RNA 1	-1.573	4.158	Down
83892	KCTD10	potassium channel tetramerization domain containing 10	-0.643	3.788	Down
326625	MMAB	metabolism of cobalamin associated B	-1.291	7.663	Down
4598	MVK	mevalonate kinase	-2.017	16.329	Down
488	ATP2A2	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2	-1.536	17.061	Down
10094	ARPC3	actin related protein 2/3 complex subunit 3	-0.627	1.366	Down
51184	GPN3	GPN-loop GTPase 3	-0.939	3.838	Down
51699	VPS29	VPS29 retromer complex component	-0.583	1.744	Down
144715	RAD9B	RAD9 checkpoint clamp component B	-1.086	9.95	Down
160760	PPTC7	protein phosphatase targeting COQ7	-1.244	15.161	Down
5501	PPP1CC	protein phosphatase 1 catalytic subunit gamma	-0.863	8.706	Down
10019	SH2B3	SH2B adaptor protein 3	-1.052	3.733	Down

80018	NAA25	N-alpha-acetyltransferase 25, NatB auxiliary subunit	-0.889	4.308	Down
10906	TRAFD1	TRAF-type zinc finger domain containing 1	-1.847	5.693	Down
5781	PTPN11	protein tyrosine phosphatase non-receptor type 11	-1.091	12.965	Down
4938	OAS1	2'-5'-oligoadenylate synthetase 1	-2.624	2.665	Down
4940	OAS3	2'-5'-oligoadenylate synthetase 3	-2.832	3.151	Down
4939	OAS2	2'-5'-oligoadenylate synthetase 2	-1.071	4.383	Down
1840	DTX1	deltex E3 ubiquitin ligase 1	-1.406	1.897	Down
387885	CFAP73	cilia and flagella associated protein 73	-0.585	2.073	Down
79039	DDX54	DEAD-box helicase 54	-0.616	2.561	Down
9904	RBM19	RNA binding motif protein 19	-1.498	3.161	Down
54997	TESC	tescalcin	-3.382	13.072	Down
5985	RFC5	replication factor C subunit 5	-0.865	9.367	Down
55884	WSB2	WD repeat and SOCS box containing 2	-1.263	11.153	Down
5037	PEBP1	phosphatidylethanolamine binding protein 1	-0.4	1.407	Down
11021	RAB35	RAB35, member RAS oncogene family	-0.418	4.114	Down
10985	GCN1	GCN1 activator of EIF2AK4	-0.709	5.414	Down
1337	COX6A1	cytochrome c oxidase subunit 6A1	-1.09	3.267	Down
51499	TRIAP1	TP53 regulated inhibitor of apoptosis 1	-0.746	2.396	Down
283459	GATC	glutamyl-tRNA amidotransferase subunit C	-0.582	4.076	Down
8683	SRSF9	serine and arginine rich splicing factor 9	-1.245	16.655	Down
8655	DYNLL1	dynein light chain LC8-type 1	-1.197	4.879	Down
1.01E+08	NRAV	negative regulator of antiviral response	-0.905	2.133	Down
51367	POP5	POP5 homolog, ribonuclease P/MRP subunit	-1.108	4.178	Down
9761	MLEC	malectin	-0.453	2.647	Down
64897	C12orf43	chromosome 12 open reading frame 43	-0.787	4.352	Down
5027	P2RX7	purinergic receptor P2X 7	-2.21	8.233	Down
80196	RNF34	ring finger protein 34	-0.648	6.321	Down
5715	PSMD9	proteasome 26S subunit, non-ATPase 9	-0.921	5.459	Down

386653	IL31	interleukin 31	-8.507	3.131	Down
56616	DIABLO	diablo IAP-binding mitochondrial protein	-0.478	1.5	Down
6249	CLIP1	CAP-Gly domain containing linker protein 1	-1.291	1.733	Down
27198	HCAR1	hydroxycarboxylic acid receptor 1	-4.869	8.905	Down
79720	VPS37B	VPS37B subunit of ESCRT-I	-0.671	3.123	Down
8099	CDK2AP1	cyclin dependent kinase 2 associated protein 1	-2.412	26.382	Down
11066	SNRNP35	small nuclear ribonucleoprotein U11/U12 subunit 35	-0.501	2.589	Down
10959	TMED2	transmembrane p24 trafficking protein 2	-0.574	1.709	Down
1967	EIF2B1	eukaryotic translation initiation factor 2B subunit alpha	-0.696	2.779	Down
2967	GTF2H3	general transcription factor IIH subunit 3	-0.725	3.788	Down
23545	ATP6V0A2	ATPase H+ transporting V0 subunit a2	-1.16	9.028	Down
144348	ZNF664	zinc finger protein 664	-0.311	1.46	Down
949	SCARB1	scavenger receptor class B member 1	-1.542	7.644	Down
7316	UBC	ubiquitin C	-1.028	4.916	Down
57647	DHX37	DEAH-box helicase 37	-1.088	8.412	Down
65985	AACS	acetoacetyl-CoA synthetase	-0.608	2.976	Down
387895	LINC00944	long intergenic non-protein coding RNA 944	-0.932	1.304	Down
5901	RAN	RAN, member RAS oncogene family	-1.733	13.624	Down
80324	PUS1	pseudouridine synthase 1	-1.356	16.221	Down
79050	NOC4L	nucleolar complex associated 4 homolog	-1.194	6.139	Down
192111	PGAM5	PGAM family member 5, mitochondrial serine/threonine protein phosphatase	-0.923	5.883	Down
23141	ANKLE2	ankyrin repeat and LEM domain containing 2	-0.686	7.384	Down
2706	GJB2	gap junction protein beta 2	-7.416	7.631	Down
10804	GJB6	gap junction protein beta 6	-2.371	3.477	Down
53342	IL17D	interleukin 17D	-2.142	6.996	Down
10284	SAP18	Sin3A associated protein 18	-0.584	1.834	Down
221150	SKA3	spindle and kinetochore associated complex subunit 3	-2.071	3.835	Down
221154	MICU2	mitochondrial calcium uptake 2	-0.703	4.028	Down

4285	MIPEP	mitochondrial intermediate peptidase	-1.369	11.995	Down
1.05E+08	LOC105370115	uncharacterized LOC105370115	-2.727	1.417	Down
479	ATP12A	ATPase H+/K+ transporting non-gastric alpha2 subunit	-7.079	7.738	Down
9818	NUP58	nucleoporin 58	-1.129	11.359	Down
6049	RNF6	ring finger protein 6	-0.412	2.581	Down
1024	CDK8	cyclin dependent kinase 8	-0.477	1.359	Down
219333	USP12	ubiquitin specific peptidase 12	-1.3	10.388	Down
51371	POMP	proteasome maturation protein	-1.845	16.085	Down
6541	SLC7A1	solute carrier family 7 member 1	-1.843	6.408	Down
171222	UBE2L5	ubiquitin conjugating enzyme E2 L5	-1.365	6.253	Down
10808	HSPH1	heat shock protein family H (Hsp110) member 1	-1.849	22.408	Down
1.08E+08	LOC107984551	uncharacterized LOC107984551	-6.074	3.789	Down
5983	RFC3	replication factor C subunit 3	-1.319	8.054	Down
23111	SPART	spartin	-0.546	2.115	Down
5994	RFXAP	regulatory factor X associated protein	-1.008	4.081	Down
29880	ALG5	ALG5 dolichyl-phosphate beta-glucosyltransferase	-0.747	2.589	Down
11340	EXOSC8	exosome component 8	-1.076	7.236	Down
51569	UFM1	ubiquitin fold modifier 1	-0.705	10.863	Down
10240	MRPS31	mitochondrial ribosomal protein S31	-0.556	1.984	Down
11193	WBP4	WW domain binding protein 4	-1.067	9.028	Down
8600	TNFSF11	TNF superfamily member 11	-1.67	3.68	Down
94240	EPSTI1	epithelial stromal interaction 1	-2.554	5.835	Down
29103	DNAJC15	DnaJ heat shock protein family (Hsp40) member C15	-1.045	1.602	Down
144811	LACC1	laccase domain containing 1	-1.595	3.69	Down
26747	NUFIP1	nuclear FMR1 interacting protein 1	-0.699	3.161	Down
2963	GTF2F2	general transcription factor IIF subunit 2	-0.889	4.923	Down
3936	LCP1	lymphocyte cytosolic protein 1	-1.095	5.298	Down
8803	SUCLA2	succinate-CoA ligase ADP-forming subunit beta	-0.672	1.827	Down

55270	NUDT15	nudix hydrolase 15	-0.92	4.42	Down
5925	RB1	RB transcriptional corepressor 1	-0.881	9.287	Down
1.12E+08	LOC112268118	uncharacterized LOC112268118	-0.913	1.649	Down
57105	CYSLTR2	cysteinyl leukotriene receptor 2	-2.025	7.441	Down
1.07E+08	SETDB2-PHF11	SETDB2-PHF11 readthrough	-0.467	1.868	Down
51131	PHF11	PHD finger protein 11	-0.813	3.528	Down
3839	KPNA3	karyopherin subunit alpha 3	-0.57	1.911	Down
57213	SPRYD7	SPRY domain containing 7	-0.991	7.671	Down
8847	DLEU2	deleted in lymphocytic leukemia 2	-0.768	3.601	Down
4752	NEK3	NIMA related kinase 3	-0.951	1.302	Down
144983	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1 like 2	-0.846	4.18	Down
10910	SUGT1	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone	-0.578	3.93	Down
81624	DIAPH3	diaphanous related formin 3	-2.069	1.472	Down
440145	MZT1	mitotic spindle organizing protein 1	-0.611	3.742	Down
22894	DIS3	DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease	-0.69	5.375	Down
7347	UCHL3	ubiquitin C-terminal hydrolase L3	-1.37	5.021	Down
1.02E+08	LMO7-AS1	LMO7 antisense RNA 1	-1.074	2.686	Down
54602	NDFIP2	Nedd4 family interacting protein 2	-4.559	25.109	Down
2262	GPC5	glypican 5	-2.548	1.46	Down
10257	ABCC4	ATP binding cassette subfamily C member 4	-0.761	7.462	Down
5611	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3	-0.813	9.071	Down
3843	IPO5	importin 5	-0.856	6.965	Down
8428	STK24	serine/threonine kinase 24	-0.285	1.313	Down
1.01E+08	STK24-AS1	STK24 antisense RNA 1	-2.817	2.885	Down
1880	GPR183	G protein-coupled receptor 183	-0.837	2.609	Down
9375	TM9SF2	transmembrane 9 superfamily member 2	-0.471	2.032	Down
1.05E+08	PCCA-DT	PCCA divergent transcript	-2.287	3.331	Down
1.05E+08	LOC105370337	uncharacterized LOC105370337	-1.505	2.192	Down

93081	TEX30	testis expressed 30	-1.259	3.103	Down
79070	POGLUT2	protein O-glucosyltransferase 2	-1.999	3.765	Down
3981	LIG4	DNA ligase 4	-1.472	12.36	Down
79587	CARS2	cysteinyl-tRNA synthetase 2, mitochondrial	-1.004	5.04	Down
7027	TFDP1	transcription factor Dp-1	-1.615	32.212	Down
8881	CDC16	cell division cycle 16	-1.291	8.736	Down
1.05E+08	LOC105370384	uncharacterized LOC105370384	-1.182	2.739	Down
641455	POTEM	POTE ankyrin domain family member M	-2.165	14.408	Down
404785	POTEG	POTE ankyrin domain family member G	-2.252	3.095	Down
91875	TTC5	tetratricopeptide repeat domain 5	-0.675	3.414	Down
55644	OSGEP	O-sialoglycoprotein endopeptidase	-1.266	7.379	Down
4860	PNP	purine nucleoside phosphorylase	-1.138	4.9	Down
64745	METTL17	methyltransferase like 17	-0.729	5.605	Down
3183	HNRNPC	heterogeneous nuclear ribonucleoprotein C	-0.629	2.505	Down
11198	SUPT16H	SPT16 homolog, facilitates chromatin remodeling subunit	-0.5	4.291	Down
28691	TRAV2	T cell receptor alpha variable 2	-1.207	5.007	Down
28690	TRAV3	T cell receptor alpha variable 3	-0.775	2.808	Down
28671	TRAV13-1	T cell receptor alpha variable 13-1	-0.613	1.621	Down
28666	TRAV17	T cell receptor alpha variable 17	-0.895	5.794	Down
28659	TRAV24	T cell receptor alpha variable 24	-0.855	2.045	Down
28656	TRAV26-2	T cell receptor alpha variable 26-2	-1.235	2.429	Down
28648	TRAV34	T cell receptor alpha variable 34	-0.929	1.456	Down
28644	TRAV38-1	T cell receptor alpha variable 38-1	-0.765	2.296	Down
28641	TRAV40	T cell receptor alpha variable 40	-1.222	1.381	Down
28517	TRDV2	T cell receptor delta variable 2	-1.256	1.822	Down
28522	TRDJ1	T cell receptor delta joining 1	-1.111	1.426	Down
28526	TRDC	T cell receptor delta constant	-1.205	6.171	Down
28716	TRAJ39	T cell receptor alpha joining 39	-0.717	1.302	Down

28721	TRAJ34	T cell receptor alpha joining 34	-1.964	2.321	Down
28732	TRAJ23	T cell receptor alpha joining 23	-1.035	1.756	Down
28743	TRAJ12	T cell receptor alpha joining 12	-1.275	2.021	Down
28750	TRAJ5	T cell receptor alpha joining 5	-1.572	3.679	Down
1603	DAD1	defender against cell death 1	-0.574	1.387	Down
122704	MRPL52	mitochondrial ribosomal protein L52	-1.441	6.381	Down
1.01E+08	PRMT5-AS1	PRMT5 antisense RNA 1	-1.366	6.313	Down
10419	PRMT5	protein arginine methyltransferase 5	-1.42	8.002	Down
84962	AJUBA	ajuba LIM protein	-1.057	1.912	Down
5693	PSMB5	proteasome 20S subunit beta 5	-1.608	13.808	Down
1.01E+08	BCL2L2-PABPN1	BCL2L2-PABPN1 readthrough	-0.838	9.401	Down
8106	PABPN1	poly(A) binding protein nuclear 1	-0.774	5.575	Down
25983	NGDN	neuroguidin	-0.53	2.391	Down
79178	THTPA	thiamine triphosphatase	-0.461	1.9	Down
85446	ZFHX2	zinc finger homeobox 2	-1.594	3.826	Down
84502	JPH4	junctophilin 4	-6.286	4.207	Down
4901	NRL	neural retina leucine zipper	-0.626	1.731	Down
5106	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial	-1.552	8.67	Down
80344	DCAF11	DDB1 and CUL4 associated factor 11	-0.403	2.522	Down
5720	PSME1	proteasome activator subunit 1	-1.813	9.34	Down
51016	EMC9	ER membrane protein complex subunit 9	-0.956	2.61	Down
5721	PSME2	proteasome activator subunit 2	-3.096	14.573	Down
1.02E+08	MIR7703	microRNA 7703	-3.125	14.319	Down
55072	RNF31	ring finger protein 31	-0.384	4.356	Down
10379	IRF9	interferon regulatory factor 9	-0.821	2.725	Down
9985	REC8	REC8 meiotic recombination protein	-0.992	3.836	Down
79711	IPO4	importin 4	-2.149	23.396	Down
29082	CHMP4A	charged multivesicular body protein 4A	-0.687	3.884	Down

5875	RABGGTA	Rab geranylgeranyltransferase subunit alpha	-0.715	4.649	Down
161424	NOP9	NOP9 nucleolar protein	-0.834	5.126	Down
27141	CIDEB	cell death inducing DFFA like effector b	-0.425	1.935	Down
643866	CBLN3	cerebellin 3 precursor	-1.262	3.19	Down
2999	GZMH	granzyme H	-3.111	2.76	Down
3002	GZMB	granzyme B	-6.27	10.166	Down
23256	SCFD1	sec1 family domain containing 1	-0.461	2.47	Down
11154	AP4S1	adaptor related protein complex 4 subunit sigma 1	-0.464	1.364	Down
80224	NUBPL	NUBP iron-sulfur cluster assembly factor, mitochondrial	-0.883	2.561	Down
171546	SPTSSA	serine palmitoyltransferase small subunit A	-0.763	2.567	Down
1073	CFL2	cofilin 2	-1.341	5.183	Down
1.12E+08	BAZ1A-AS1	BAZ1A antisense RNA 1	-1.322	5.14	Down
6729	SRP54	signal recognition particle 54	-1.241	11.197	Down
283635	FAM177A1	family with sequence similarity 177 member A1	-0.712	4.526	Down
1.02E+08	LOC101927178	uncharacterized LOC101927178	-0.76	3.079	Down
55012	PPP2R3C	protein phosphatase 2 regulatory subunit B''gamma	-0.511	1.348	Down
5687	PSMA6	proteasome 20S subunit alpha 6	-1.924	14.476	Down
4792	NFKBIA	NFKB inhibitor alpha	-2.319	11.169	Down
84312	BRMS1L	BRMS1 like transcriptional repressor	-0.77	2.426	Down
51562	MBIP	MAP3K12 binding inhibitory protein 1	-0.898	8.547	Down
4253	MIA2	MIA SH3 domain ER export factor 2	-0.368	1.69	Down
254170	FBXO33	F-box protein 33	-1.143	11.379	Down
55015	PRPF39	pre-mRNA processing factor 39	-0.507	3.268	Down
2287	FKBP3	FKBP prolyl isomerase 3	-0.914	7.825	Down
57697	FANCM	FA complementation group M	-0.631	1.595	Down
122769	LRR1	leucine rich repeat protein 1	-0.727	4.229	Down
4247	MGAT2	alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	-0.761	8.269	Down
5427	POLE2	DNA polymerase epsilon 2, accessory subunit	-2.197	10.812	Down

382	ARF6	ADP ribosylation factor 6	-1.038	17.832	Down
196913	LINC01599	long intergenic non-protein coding RNA 1599	-1.474	1.435	Down
11183	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	-1.317	9.049	Down
81542	TMX1	thioredoxin related transmembrane protein 1	-0.901	5.241	Down
5706	PSMC6	proteasome 26S subunit, ATPase 6	-1.061	11.652	Down
64841	GNPNAT1	glucosamine-phosphate N-acetyltransferase 1	-1.04	6.578	Down
80821	DDHD1	DDHD domain containing 1	-1.917	20.579	Down
1033	CDKN3	cyclin dependent kinase inhibitor 3	-1.073	1.927	Down
2764	GMFB	glia maturation factor beta	-1.027	7.816	Down
23034	SAMD4A	sterile alpha motif domain containing 4A	-3.532	20.656	Down
2643	GCH1	GTP cyclohydrolase 1	-1.882	10.467	Down
11169	WDHD1	WD repeat and HMG-box DNA binding protein 1	-1.675	10.903	Down
122809	SOCS4	suppressor of cytokine signaling 4	-0.964	8.309	Down
93487	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1 like	-0.668	2.998	Down
5684	PSMA3	proteasome 20S subunit alpha 3	-2.081	16.95	Down
51339	DACT1	dishevelled binding antagonist of beta catenin 1	-1.441	4.486	Down
4331	MNAT1	MNAT1 component of CDK activating kinase	-1.262	7.29	Down
57570	TRMT5	tRNA methyltransferase 5	-0.821	5.49	Down
1.01E+08	HIF1A-AS1	HIF1A antisense RNA 1	-1.5	8.564	Down
3091	HIF1A	hypoxia inducible factor 1 subunit alpha	-1.392	9.079	Down
1.01E+08	HIF1A-AS2	HIF1A antisense RNA 2	-1.301	8.596	Down
6617	SNAPC1	small nuclear RNA activating complex polypeptide 1	-0.851	4.562	Down
4522	MTHFD1	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1	-1.678	20.921	Down
3306	HSPA2	heat shock protein family A (Hsp70) member 2	-3.255	11.287	Down
376267	RAB15	RAB15, member RAS oncogene family	-0.95	3.732	Down
1.08E+08	LOC107984655	uncharacterized LOC107984655	-1.176	1.582	Down
2342	FNTB	farnesyltransferase, CAAX box, beta	-0.546	1.764	Down
10243	GPHN	gephyrin	-0.527	1.551	Down

1965	EIF2S1	eukaryotic translation initiation factor 2 subunit alpha	-1.254	21.271	Down
2079	ERH	ERH mRNA splicing and mitosis factor	-1.133	5.721	Down
9766	SUSD6	sushi domain containing 6	-0.85	6.102	Down
6547	SLC8A3	solute carrier family 8 member A3	-1.326	1.518	Down
51241	COX16	cytochrome c oxidase assembly factor COX16	-0.638	1.359	Down
10001	MED6	mediator complex subunit 6	-0.406	2.159	Down
1.05E+08	RBM25-AS1	RBM25 antisense RNA 1	-1.246	3.02	Down
58517	RBM25	RNA binding motif protein 25	-1.079	2.472	Down
122970	ACOT4	acyl-CoA thioesterase 4	-1.382	3.054	Down
83694	RPS6KL1	ribosomal protein S6 kinase like 1	-1.456	3.918	Down
8892	EIF2B2	eukaryotic translation initiation factor 2B subunit beta	-0.748	3.836	Down
122953	JDP2	Jun dimerization protein 2	-1.156	1.518	Down
1.05E+08	LOC105370572	uncharacterized LOC105370572	-3.62	3.767	Down
10538	BATF	basic leucine zipper ATF-like transcription factor	-2.695	9.348	Down
11161	ERG28	ergosterol biosynthesis 28 homolog	-1.033	4.835	Down
55668	GPATCH2L	G-patch domain containing 2 like	-0.513	2.116	Down
283578	TMED8	transmembrane p24 trafficking protein family member 8	-0.665	2.19	Down
10598	AHSA1	activator of HSP90 ATPase activity 1	-1.672	37.178	Down
81892	SLIRP	SRA stem-loop interacting RNA binding protein	-1.623	8.346	Down
57143	ADCK1	aarF domain containing kinase 1	-0.873	2.13	Down
8477	GPR65	G protein-coupled receptor 65	-0.948	4.373	Down
400236	FOXN3-AS1	FOXN3 antisense RNA 1	-2.217	7.106	Down
5700	PSMC1	proteasome 26S subunit, ATPase 1	-1.606	15.97	Down
55051	NRDE2	NRDE-2, necessary for RNA interference, domain containing	-0.86	12.145	Down
145567	TTC7B	tetratricopeptide repeat domain 7B	-2.104	6.157	Down
9252	RPS6KA5	ribosomal protein S6 kinase A5	-1.192	6.314	Down
8111	GPR68	G protein-coupled receptor 68	-1.753	8.725	Down
5641	LGMN	legumain	-1.667	4.983	Down

3705	ITPK1	inositol-tetrakisphosphate 1-kinase	-0.711	3.31	Down
51676	ASB2	ankyrin repeat and SOCS box containing 2	-4.175	36.968	Down
78990	OTUB2	OTU deubiquitinase, ubiquitin aldehyde binding 2	-2.78	11.716	Down
3429	IFI27	interferon alpha inducible protein 27	-4.323	7.046	Down
5265	SERPINA1	serpin family A member 1	-2.174	1.37	Down
10914	PAPOLA	poly(A) polymerase alpha	-0.328	3.32	Down
7443	VRK1	VRK serine/threonine kinase 1	-0.636	4.35	Down
7453	WARS1	tryptophanyl-tRNA synthetase 1	-3.525	11.056	Down
57596	BEGAIN	brain enriched guanylate kinase associated	-1.622	4.362	Down
3320	HSP90AA1	heat shock protein 90 alpha family class A member 1	-2.044	29.585	Down
51550	CINP	cyclin dependent kinase 2 interacting protein	-0.654	2.863	Down
7187	TRAF3	TNF receptor associated factor 3	-0.968	5.416	Down
1152	CKB	creatine kinase B	-1.244	1.515	Down
115708	TRMT61A	tRNA methyltransferase 61A	-1.106	6.596	Down
1.03E+08	LOC102723342	uncharacterized LOC102723342	-0.667	4.97	Down
207	AKT1	AKT serine/threonine kinase 1	-0.755	7.165	Down
55038	CDCA4	cell division cycle associated 4	-0.686	3.416	Down
3714	JAG2	jagged canonical Notch ligand 2	-1.223	2.982	Down
283643	TEDC1	tubulin epsilon and delta complex 1	-0.637	1.362	Down
28473	IGHV1-3	immunoglobulin heavy variable 1-3	-3.93	6.39	Down
123606	NIPA1	NIPA magnesium transporter 1	-0.872	4.628	Down
81614	NIPA2	NIPA magnesium transporter 2	-0.777	2.58	Down
7337	UBE3A	ubiquitin protein ligase E3A	-0.369	1.945	Down
1.05E+08	LOC105376707		-2.043	2.809	Down
9824	ARHGAP11A	Rho GTPase activating protein 11A	-1.268	2.545	Down
1.14E+08	ARHGAP11A-SCG5	ARHGAP11A-SCG5 readthrough	-1.143	1.844	Down
57099	AVEN	apoptosis and caspase activation inhibitor	-1.279	10.171	Down
56851	EMC7	ER membrane protein complex subunit 7	-0.817	5.035	Down

79768	KATNBL1	katanin regulatory subunit B1 like 1	-1.058	7.051	Down
51234	EMC4	ER membrane protein complex subunit 4	-0.579	1.448	Down
55505	NOP10	NOP10 ribonucleoprotein	-1.168	5.196	Down
9716	AQR	aquarius intron-binding spliceosomal factor	-0.387	1.481	Down
89978	DPH6	diphthamine biosynthesis 6	-0.747	1.995	Down
723972	ANP32AP1	acidic nuclear phosphoprotein 32 family member A pseudogene 1	-0.966	2.56	Down
283742	FAM98B	family with sequence similarity 98 member B	-0.858	4.051	Down
6727	SRP14	signal recognition particle 14	-0.689	2.603	Down
90427	BMF	Bcl2 modifying factor	-1.558	4.939	Down
701	BUB1B	BUB1 mitotic checkpoint serine/threonine kinase B	-1.485	2.472	Down
1.07E+08	BUB1B-PAK6	BUB1B-PAK6 readthrough	-2.422	1.644	Down
90417	KNSTRN	kinetochore localized astrin (SPAG5) binding protein	-1.593	5.632	Down
3712	IVD	isovaleryl-CoA dehydrogenase	-0.455	1.587	Down
5888	RAD51	RAD51 recombinase	-1.983	4.837	Down
55177	RMDN3	regulator of microtubule dynamics 3	-0.994	8.316	Down
6692	SPINT1	serine peptidase inhibitor, Kunitz type 1	-0.93	3.662	Down
171177	RHOV	ras homolog family member V	-3.401	1.584	Down
54567	DLL4	delta like canonical Notch ligand 4	-3.41	1.4	Down
79094	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1	-5.494	19.598	Down
11261	CHP1	calcineurin like EF-hand protein 1	-0.856	4.243	Down
11339	OIP5	Opa interacting protein 5	-2.911	9.13	Down
51203	NUSAP1	nucleolar and spindle associated protein 1	-1.106	2.901	Down
51103	NDUFAF1	NADH:ubiquinone oxidoreductase complex assembly factor 1	-1.32	13.691	Down
1.05E+08	LOC105370792	uncharacterized LOC105370792	-1.613	11.313	Down
30844	EHD4	EH domain containing 4	-2.214	21.847	Down
255252	LRRC57	leucine rich repeat containing 57	-0.289	1.497	Down
80021	TMEM62	transmembrane protein 62	-0.729	1.56	Down
9836	LCMT2	leucine carboxyl methyltransferase 2	-0.762	5.909	Down

27229	TUBGCP4	tubulin gamma complex associated protein 4	-0.452	2.252	Down
2923	PDIA3	protein disulfide isomerase family A member 3	-1.122	7.091	Down
80237	ELL3	elongation factor for RNA polymerase II 3	-0.682	1.575	Down
1.01E+08	SERF2-C15ORF63	SERF2-C15orf63 readthrough	-0.83	3.097	Down
25764	HYPK	huntingtin interacting protein K	-1.827	14.489	Down
4236	MFAP1	microfibril associated protein 1	-0.813	5.476	Down
79968	WDR76	WD repeat domain 76	-0.913	4.367	Down
8669	EIF3J	eukaryotic translation initiation factor 3 subunit J	-1.039	5.909	Down
567	B2M	beta-2-microglobulin	-0.64	1.642	Down
1.13E+08	MIR10393	microRNA 10393	-0.622	1.698	Down
1E+08	LOC100419583	ring finger protein 4 pseudogene	-0.944	5.998	Down
140691	TRIM69	tripartite motif containing 69	-1.679	2.198	Down
653381	SORD2P	sorbitol dehydrogenase 2, pseudogene	-1.523	5.316	Down
6652	SORD	sorbitol dehydrogenase	-1.38	7.563	Down
90525	SHF	Src homology 2 domain containing F	-2.303	9.053	Down
58472	SQOR	sulfide quinone oxidoreductase	-1.42	5.245	Down
11001	SLC27A2	solute carrier family 27 member 2	-2.338	6.274	Down
2553	GABPB1	GA binding protein transcription factor subunit beta 1	-1.128	7.913	Down
84888	SPPL2A	signal peptide peptidase like 2A	-2.077	17.704	Down
23431	AP4E1	adaptor related protein complex 4 subunit epsilon 1	-0.588	2.045	Down
1E+08	DCAF13P3	DDB1 and CUL4 associated factor 13 pseudogene 3	-1.468	1.745	Down
123169	LEO1	LEO1 homolog, Paf1/RNA polymerase II complex component	-0.549	1.593	Down
5597	MAPK6	mitogen-activated protein kinase 6	-1.611	11.902	Down
10776	ARPP19	cAMP regulated phosphoprotein 19	-0.665	6.33	Down
5873	RAB27A	RAB27A, member RAS oncogene family	-0.741	2.609	Down
4734	NEDD4	NEDD4 E3 ubiquitin protein ligase	-0.648	2.185	Down
664618	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene	-3.098	2.323	Down
9133	CCNB2	cyclin B2	-1.744	2.063	Down

2958	GTF2A2	general transcription factor IIA subunit 2	-1.072	4.467	Down
27023	FOXB1	forkhead box B1	-3.628	3.181	Down
145741	C2CD4A	C2 calcium dependent domain containing 4A	-4.939	4.353	Down
114294	LACTB	lactamase beta	-1.664	15.016	Down
51762	RAB8B	RAB8B, member RAS oncogene family	-0.916	2.889	Down
79856	SNX22	sorting nexin 22	-0.909	2.811	Down
5479	PPIB	peptidylprolyl isomerase B	-0.879	2.781	Down
53944	CSNK1G1	casein kinase 1 gamma 1	-0.646	2.911	Down
9768	PCLAF	PCNA clamp associated factor	-2.039	4.308	Down
9325	TRIP4	thyroid hormone receptor interactor 4	-0.447	1.889	Down
10260	DENND4A	DENN domain containing 4A	-0.48	1.605	Down
8766	RAB11A	RAB11A, member RAS oncogene family	-0.442	1.318	Down
54962	TIPIN	TIMELESS interacting protein	-1.627	22.675	Down
55055	ZWILCH	zwilch kinetochore protein	-1.158	4.851	Down
79719	AAGAB	alpha and gamma adaptin binding protein	-0.956	9.831	Down
54982	CLN6	CLN6 transmembrane ER protein	-1.373	11.47	Down
8125	ANP32A	acidic nuclear phosphoprotein 32 family member A	-1.01	12.062	Down
5315	PKM	pyruvate kinase M1/2	-1.804	6.952	Down
27020	NPTN	neuroplastin	-0.598	8.725	Down
5371	PML	PML nuclear body scaffold	-0.725	4.767	Down
8482	SEMA7A	semaphorin 7A (John Milton Hagen blood group)	-3.476	10.526	Down
80153	EDC3	enhancer of mRNA decapping 3	-0.683	2.599	Down
1543	CYP1A1	cytochrome P450 family 1 subfamily A member 1	-3.121	8.305	Down
1445	CSK	C-terminal Src kinase	-0.701	4.255	Down
9377	COX5A	cytochrome c oxidase subunit 5A	-1.199	7.616	Down
192683	SCAMP5	secretory carrier membrane protein 5	-1.275	2.197	Down
54939	COMMD4	COMM domain containing 4	-0.943	1.386	Down
5780	PTPN9	protein tyrosine phosphatase non-receptor type 9	-0.511	2.626	Down

10073	SNUPN	snurportin 1	-0.499	1.766	Down
26263	FBXO22	F-box protein 22	-0.623	2.126	Down
2108	ETFA	electron transfer flavoprotein subunit alpha	-1.495	10.207	Down
10518	CIB2	calcium and integrin binding family member 2	-0.993	2.983	Down
3419	IDH3A	isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha	-1.233	14.492	Down
23205	ACSBG1	acyl-CoA synthetase bubblegum family member 1	-1.153	9.535	Down
55466	DNAJA4	DnaJ heat shock protein family (Hsp40) member A4	-1.066	18.983	Down
1.05E+08	LOC105370910	uncharacterized LOC105370910	-0.473	1.349	Down
80349	SKIC8	SKI8 subunit of superkiller complex	-0.787	3.777	Down
5685	PSMA4	proteasome 20S subunit alpha 4	-1.755	17.028	Down
1138	CHRNA5	cholinergic receptor nicotinic alpha 5 subunit	-1.715	5.222	Down
23423	TMED3	transmembrane p24 trafficking protein 3	-0.558	2.421	Down
400410	ST20	suppressor of tumorigenicity 20	-1.197	3.635	Down
597	BCL2A1	BCL2 related protein A1	-2.364	6.87	Down
2184	FAH	fumarylacetoacetate hydrolase	-2.387	31.312	Down
59274	TLNRD1	talin rod domain containing 1	-0.758	3.427	Down
53339	BTBD1	BTB domain containing 1	-0.254	1.784	Down
4828	NMB	neuromedin B	-0.761	2.111	Down
26589	MRPL46	mitochondrial ribosomal protein L46	-0.89	2.833	Down
64963	MRPS11	mitochondrial ribosomal protein S11	-0.619	2.13	Down
64782	AEN	apoptosis enhancing nuclease	-0.601	2.287	Down
145864	HAPLN3	hyaluronan and proteoglycan link protein 3	-2.481	18.264	Down
90381	TICRR	TOPBP1 interacting checkpoint and replication regulator	-1.527	1.554	Down
374655	ZNF710	zinc finger protein 710	-0.602	2.117	Down
3418	IDH2	isocitrate dehydrogenase (NADP(+)) 2	-0.428	1.381	Down
641	BLM	BLM RecQ like helicase	-1.546	17.812	Down
5045	FURIN	furin, paired basic amino acid cleaving enzyme	-1.704	10.117	Down
55898	UNC45A	unc-45 myosin chaperone A	-0.506	3.335	Down

7190	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene	-0.993	5.456	Down
22856	CHSY1	chondroitin sulfate synthase 1	-1.68	11.108	Down
55829	SELENOS	selenoprotein S	-0.892	5.176	Down
6627	SNRPA1	small nuclear ribonucleoprotein polypeptide A'	-1.394	21.403	Down
80213	TM2D3	TM2 domain containing 3	-1.165	6.484	Down
51728	POLR3K	RNA polymerase III subunit K	-1.174	5.281	Down
79622	SNRNP25	small nuclear ribonucleoprotein U11/U12 subunit 25	-1.48	6.929	Down
10573	MRPL28	mitochondrial ribosomal protein L28	-1.724	13.91	Down
4833	NME4	NME/NM23 nucleoside diphosphate kinase 4	-0.82	2.482	Down
84326	METTL26	methyltransferase like 26	-0.755	2.259	Down
84331	MCRIP2	MAPK regulated corepressor interacting protein 2	-1.203	3.201	Down
10273	STUB1	STIP1 homology and U-box containing protein 1	-0.396	1.992	Down
339123	JMJD8	jumonji domain containing 8	-0.584	4.779	Down
79006	METRN	meteorin, glial cell differentiation regulator	-1.407	4.262	Down
65990	ANTKMT	adenine nucleotide translocase lysine methyltransferase	-2.135	7.954	Down
113000	RPUSD1	RNA pseudouridine synthase domain containing 1	-0.682	5.599	Down
7329	UBE2I	ubiquitin conjugating enzyme E2 I	-0.508	3.614	Down
115939	TSR3	TSR3 ribosome maturation factor	-0.603	3.19	Down
283951	UQCC4	ubiquinol-cytochrome c reductase complex assembly factor 4	-1.237	4.582	Down
9894	TELO2	telomere maintenance 2	-0.926	3.105	Down
90861	JPT2	Jupiter microtubule associated homolog 2	-0.893	4.656	Down
65993	MRPS34	mitochondrial ribosomal protein S34	-0.694	3.173	Down
81889	FAHD1	fumarylacetoacetate hydrolase domain containing 1	-0.685	4.572	Down
51734	MSRB1	methionine sulfoxide reductase B1	-1.695	7.539	Down
10607	TBL3	transducin beta like 3	-1.718	15.393	Down
9143	SYNGR3	synaptogyrin 3	-2.201	6.818	Down
283869	NPW	neuropeptide W	-5.352	6.866	Down
4913	NTHL1	nth like DNA glycosylase 1	-0.672	1.419	Down

64223	MLST8	MTOR associated protein, LST8 homolog	-0.786	3.423	Down
283871	PGP	phosphoglycolate phosphatase	-0.714	3.223	Down
1632	ECI1	enoyl-CoA delta isomerase 1	-0.777	1.847	Down
10921	RNPS1	RNA binding protein with serine rich domain 1	-0.699	9.021	Down
80178	TEDC2	tubulin epsilon and delta complex 2	-3.048	7.4	Down
57465	TBC1D24	TBC1 domain family member 24	-0.837	2.074	Down
54442	KCTD5	potassium channel tetramerization domain containing 5	-0.494	2.87	Down
6923	ELOB	elongin B	-0.861	2.507	Down
10942	PRSS21	serine protease 21	-2.314	2.652	Down
124222	PAQR4	progestin and adipoQ receptor family member 4	-1.151	1.375	Down
9088	PKMYT1	protein kinase, membrane associated tyrosine/threonine 1	-2.546	4.059	Down
79228	THOC6	THO complex subunit 6	-1.508	14.334	Down
146439	BICDL2	BICD family like cargo adaptor 2	-1.857	3.351	Down
64386	MMP25	matrix metallopeptidase 25	-1.346	2.542	Down
9235	IL32	interleukin 32	-2.169	14.492	Down
84464	SLX4	SLX4 structure-specific endonuclease subunit	-0.846	1.434	Down
1773	DNASE1	deoxyribonuclease 1	-0.595	2.607	Down
10131	TRAP1	TNF receptor associated protein 1	-1.561	11.617	Down
1.01E+08	CORO7-PAM16	CORO7-PAM16 readthrough	-0.892	3.236	Down
51025	PAM16	presequence translocase associated motor 16	-1.072	4.046	Down
79585	CORO7	coronin 7	-0.87	2.485	Down
23295	MGRN1	mahogunin ring finger 1	-0.521	2.607	Down
84656	GLYR1	glyoxylate reductase 1 homolog	-0.363	4.089	Down
56052	ALG1	ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase	-0.707	3.752	Down
196483	EEF2KMT	eukaryotic elongation factor 2 lysine methyltransferase	-0.833	6.374	Down
18	ABAT	4-aminobutyrate aminotransferase	-0.525	2.386	Down
5373	PMM2	phosphomannomutase 2	-1.378	15.596	Down
4682	NUBP1	NUBP iron-sulfur cluster assembly factor 1, cytosolic	-0.598	2.514	Down

23274	CLEC16A	C-type lectin domain containing 16A	-0.573	1.927	Down
1.05E+08	LOC105371082	uncharacterized LOC105371082	-1.5	1.488	Down
8651	SOCS1	suppressor of cytokine signaling 1	-3.263	11.941	Down
116028	RMI2	RecQ mediated genome instability 2	-1.674	2.502	Down
1.05E+08	RSL1D1-DT	RSL1D1 divergent transcript	-0.892	7.699	Down
2935	GSPT1	G1 to S phase transition 1	-0.573	3.588	Down
55313	CPPED1	calcineurin like phosphoesterase domain containing 1	-1.505	9.021	Down
23420	NOMO1	NODAL modulator 1	-0.761	3.303	Down
408050	NOMO3	NODAL modulator 3	-0.7	1.505	Down
1.03E+08	LOC102723728	nodal modulator 3-like	-0.626	1.665	Down
283820	NOMO2	NODAL modulator 2	-0.661	1.796	Down
124152	IQCK	IQ motif containing K	-0.753	1.312	Down
123879	DCUN1D3	defective in cullin neddylation 1 domain containing 3	-0.724	2.986	Down
387254	SLC7A5P2	solute carrier family 7 member 5 pseudogene 2	-1.936	5.593	Down
55718	POLR3E	RNA polymerase III subunit E	-0.466	2.527	Down
91949	COG7	component of oligomeric golgi complex 7	-0.43	1.51	Down
124454	EARS2	glutamyl-tRNA synthetase 2, mitochondrial	-0.827	6.081	Down
56061	UBFD1	ubiquitin family domain containing 1	-0.712	2.721	Down
4706	NDUFAB1	NADH:ubiquinone oxidoreductase subunit AB1	-1.605	7.236	Down
400512	NSMCE1-DT	NSMCE1 divergent transcript	-3.984	5.112	Down
3566	IL4R	interleukin 4 receptor	-1.509	5.325	Down
728689	EIF3CL	eukaryotic translation initiation factor 3 subunit C like	-1.207	6.473	Down
246778	IL27	interleukin 27	-4.041	4.694	Down
8663	EIF3C	eukaryotic translation initiation factor 3 subunit C	-1.2	6.374	Down
1.01E+08	NPIPB9	nuclear pore complex interacting protein family member B9	-0.947	3.336	Down
7284	TUFM	Tu translation elongation factor, mitochondrial	-1.48	6.432	Down
1.01E+08	MIR4721	microRNA 4721	-1.482	7.118	Down
1E+08	ATP2A1-AS1	ATP2A1 antisense RNA 1	-1.853	1.619	Down

27040	LAT	linker for activation of T cells	-0.843	2.348	Down
1.07E+08	BOLA2-SMG1P6	BOLA2-SMG1P6 readthrough	-0.983	3.191	Down
606724	LOC606724	coronin 1A pseudogene	-1.28	6.059	Down
552900	BOLA2	bolA family member 2	-1.22	3.574	Down
79008	SLX1B	SLX1 homolog B, structure-specific endonuclease subunit	-0.531	1.909	Down
9961	MVP	major vault protein	-0.741	3.397	Down
8479	HIRIP3	HIRA interacting protein 3	-0.441	1.804	Down
1.13E+08	LOC112694756	uncharaterized LOC112694756	-1.299	6.701	Down
226	ALDOA	aldolase, fructose-bisphosphate A	-1.285	6.677	Down
5531	PPP4C	protein phosphatase 4 catalytic subunit	-0.884	3.012	Down
1.08E+08	CORO1A-AS1	CORO1A antisense RNA 1	-1.223	10.666	Down
11151	CORO1A	coronin 1A	-1.285	9.502	Down
654483	BOLA2B	bolA family member 2B	-1.448	3.857	Down
548593	SLX1A	SLX1 homolog A, structure-specific endonuclease subunit	-0.511	1.961	Down
10421	CD2BP2	CD2 cytoplasmic tail binding protein 2	-0.333	1.543	Down
1731	SEPTIN1	septin 1	-0.824	6.516	Down
79077	DCTPP1	dCTP pyrophosphatase 1	-1.575	8.536	Down
22928	SEPHS2	selenophosphate synthetase 2	-0.376	1.341	Down
3683	ITGAL	integrin subunit alpha L	-0.542	1.713	Down
64319	FBRS	fibrosin	-1.152	4.657	Down
6810	STX4	syntaxin 4	-0.553	3.064	Down
79759	ZNF668	zinc finger protein 668	-0.495	1.733	Down
10295	BCKDK	branched chain keto acid dehydrogenase kinase	-0.813	4.904	Down
2521	FUS	FUS RNA binding protein	-2.219	34.506	Down
79798	ARMC5	armadillo repeat containing 5	-1.094	5.12	Down
440359	YBX3P1	Y-box binding protein 3 pseudogene 1	-1.671	1.306	Down
10308	ZNF267	zinc finger protein 267	-2.027	7.939	Down
606551	UBE2MP1	ubiquitin conjugating enzyme E2 M pseudogene 1	-1.216	4.597	Down

79801	SHCBP1	SHC binding and spindle associated 1	-3.303	14.846	Down
23594	ORC6	origin recognition complex subunit 6	-2.182	7.6	Down
388272	C16orf87	chromosome 16 open reading frame 87	-0.8	5.568	Down
84706	GPT2	glutamic--pyruvic transaminase 2	-3.038	8.99	Down
10294	DNAJA2	DnaJ heat shock protein family (Hsp40) member A2	-0.953	8.078	Down
81831	NETO2	neuropilin and tolloid like 2	-2.656	10.846	Down
64127	NOD2	nucleotide binding oligomerization domain containing 2	-2.468	11.177	Down
11051	NUDT21	nudix hydrolase 21	-0.435	2.025	Down
55239	OGFOD1	2-oxoglutarate and iron dependent oxygenase domain containing 1	-0.417	2.219	Down
4502	MT2A	metallothionein 2A	-3.45	10.888	Down
4500	MT1L	metallothionein 1L, pseudogene	-4.488	4.268	Down
4493	MT1E	metallothionein 1E	-4.513	5.656	Down
4498	MT1JP	metallothionein 1J, pseudogene	-5.105	3.597	Down
4494	MT1F	metallothionein 1F	-2.007	5.307	Down
4495	MT1G	metallothionein 1G	-5.209	10.537	Down
4496	MT1H	metallothionein 1H	-4.292	2.448	Down
4501	MT1X	metallothionein 1X	-2.442	13.903	Down
9688	NUP93	nucleoporin 93	-1.208	9.134	Down
9709	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1	-1.373	14.371	Down
84166	NLRC5	NLR family CARD domain containing 5	-0.74	1.333	Down
57019	CIAPIN1	cytokine induced apoptosis inhibitor 1	-0.599	1.484	Down
5432	POLR2C	RNA polymerase II subunit C	-0.655	2.772	Down
55715	DOK4	docking protein 4	-0.936	4.015	Down
92922	CCDC102A	coiled-coil domain containing 102A	-1.577	9.784	Down
221188	ADGRG5	adhesion G protein-coupled receptor G5	-2.543	4	Down
1.05E+08	LOC105371291	uncharacterized LOC105371291	-3.207	2.245	Down
1.08E+08	LOC107984889	uncharacterized LOC107984889	-2.344	1.39	Down
79650	USB1	U6 snRNA biogenesis phosphodiesterase 1	-0.971	12.472	Down

29105	CFAP20	cilia and flagella associated protein 20	-0.751	3.835	Down
64785	GINS3	GINS complex subunit 3	-1.686	14.435	Down
2806	GOT2	glutamic-oxaloacetic transaminase 2	-1.078	6.664	Down
8883	NAE1	NEDD8 activating enzyme E1 subunit 1	-0.408	2.117	Down
57546	PDP2	pyruvate dehydrogenase phosphatase catalytic subunit 2	-0.48	2.303	Down
6236	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator	-3.344	5.161	Down
51647	CIAO2B	cytosolic iron-sulfur assembly component 2B	-1.369	7.517	Down
283848	CES4A	carboxylesterase 4A	-1.29	1.307	Down
865	CBFB	core-binding factor subunit beta	-0.634	2.117	Down
1874	E2F4	E2F transcription factor 4	-0.952	18.464	Down
29100	TMEM208	transmembrane protein 208	-1.572	9.431	Down
29109	FHOD1	formin homology 2 domain containing 1	-0.916	3.235	Down
3291	HSD11B2	hydroxysteroid 11-beta dehydrogenase 2	-4.926	3.476	Down
9114	ATP6V0D1	ATPase H+ transporting V0 subunit d1	-0.445	1.741	Down
65057	ACD	ACD shelterin complex subunit and telomerase recruitment factor	-0.766	5.865	Down
10204	NUTF2	nuclear transport factor 2	-1.49	9.024	Down
5699	PSMB10	proteasome 20S subunit beta 10	-1.964	14.635	Down
54920	DUS2	dihydrouridine synthase 2	-1.147	8.427	Down
54496	PRMT7	protein arginine methyltransferase 7	-0.555	4.51	Down
999	CDH1	cadherin 1	-2.133	4.702	Down
79613	TANGO6	transport and golgi organization 6 homolog	-0.686	5.013	Down
84916	UTP4	UTP4 small subunit processome component	-1.282	6.721	Down
27183	VPS4A	vacuolar protein sorting 4 homolog A	-0.437	2.229	Down
64146	PDF	peptide deformylase, mitochondrial	-0.418	1.592	Down
51388	NIP7	nucleolar pre-rRNA processing protein NIP7	-1.335	10.006	Down
146456	TMED6	transmembrane p24 trafficking protein 6	-1.074	1.303	Down
80777	CYB5B	cytochrome b5 type B	-0.886	4.249	Down
10725	NFAT5	nuclear factor of activated T cells 5	-0.663	1.608	Down

28987	NOB1	NIN1 (RPN12) binding protein 1 homolog	-0.455	1.595	Down
16	AARS1	alanyl-tRNA synthetase 1	-0.921	2.682	Down
55308	DDX19A	DEAD-box helicase 19A	-0.367	2.753	Down
23450	SF3B3	splicing factor 3b subunit 3	-0.958	4.556	Down
23035	PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	-0.548	1.591	Down
164	AP1G1	adaptor related protein complex 1 subunit gamma 1	-0.429	2.027	Down
1723	DHODH	dihydroorotate dehydrogenase (quinone)	-0.813	5.06	Down
5713	PSMD7	proteasome 26S subunit, non-ATPase 7	-1.382	18.199	Down
55159	RFWD3	ring finger and WD repeat domain 3	-0.38	2.775	Down
197259	MLKL	mixed lineage kinase domain like pseudokinase	-0.568	2.144	Down
124491	TMEM170A	transmembrane protein 170A	-0.268	1.46	Down
3735	KARS1	lysyl-tRNA synthetase 1	-1.233	8.289	Down
57687	VAT1L	vesicle amine transport 1 like	-3.783	4.844	Down
4094	MAF	MAF bZIP transcription factor	-1.579	3.717	Down
1.05E+08	LOC105371356	uncharacterized LOC105371356	-4.327	2.494	Down
124359	CDYL2	chromodomain Y like 2	-0.762	1.322	Down
56942	CMC2	C-X9-C motif containing 2	-0.685	1.402	Down
55839	CENPN	centromere protein N	-1.427	12.058	Down
1.08E+08	CENPN-AS1	CENPN antisense RNA 1	-1.202	1.36	Down
123775	C16orf46	chromosome 16 open reading frame 46	-1.736	4.084	Down
2653	GCSH	glycine cleavage system protein H	-1.195	4.465	Down
8139	GAN	gigaxonin	-0.773	1.688	Down
10200	MPHOSPH6	M-phase phosphoprotein 6	-1.776	8.271	Down
3281	HSBP1	heat shock factor binding protein 1	-0.687	2.94	Down
51659	GINS2	GINS complex subunit 2	-4.193	19.609	Down
10328	EMC8	ER membrane protein complex subunit 8	-0.848	3.855	Down
3394	IRF8	interferon regulatory factor 8	-4.081	16.603	Down
1E+08	LOC100129215	uncharacterized LOC100129215	-2.344	1.85	Down

8140	SLC7A5	solute carrier family 7 member 5	-3.356	13.89	Down
4597	MVD	mevalonate diphosphate decarboxylase	-0.8	1.823	Down
348180	CTU2	cytosolic thiouridylase subunit 2	-1.608	20.383	Down
81620	CDT1	chromatin licensing and DNA replication factor 1	-3.448	16.547	Down
353	APRT	adenine phosphoribosyltransferase	-0.875	4.775	Down
5119	CHMP1A	charged multivesicular body protein 1A	-0.459	2.619	Down
9605	VPS9D1	VPS9 domain containing 1	-1.121	5.487	Down
1E+08	VPS9D1-AS1	VPS9D1 antisense RNA 1	-3.31	23.367	Down
10381	TUBB3	tubulin beta 3 class III	-2.224	5.31	Down
79007	DBNDD1	dysbindin domain containing 1	-1.684	3.473	Down
2622	GAS8	growth arrest specific 8	-0.952	2.523	Down
8447	DOC2B	double C2 domain beta	-4.461	2.527	Down
359845	RFLNB	refilin B	-1.457	13.946	Down
79850	TLCD3A	TLC domain containing 3A	-1.34	5.027	Down
29928	TIMM22	translocase of inner mitochondrial membrane 22	-0.561	2.15	Down
7531	YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon	-1.46	6.19	Down
4641	MYO1C	myosin IC	-1.109	4.63	Down
5306	PITPNA	phosphatidylinositol transfer protein alpha	-0.709	7.572	Down
10594	PRPF8	pre-mRNA processing factor 8	-0.504	1.793	Down
84981	MIR22HG	MIR22 host gene	-1.839	8.799	Down
407004	MIR22	microRNA 22	-1.851	2.007	Down
146760	RTN4RL1	reticulon 4 receptor like 1	-2.38	5.223	Down
1801	DPH1	diphthamide biosynthesis 1	-0.588	3.471	Down
124641	OVCA2	OVCA2 serine hydrolase domain containing	-0.86	5.958	Down
3090	HIC1	HIC ZBTB transcriptional repressor 1	-2.46	12.449	Down
63826	SRR	serine racemase	-1.077	9.926	Down
55720	TSR1	TSR1 ribosome maturation factor	-1.517	21.189	Down
23277	CLUH	clustered mitochondria homolog	-1.505	8.757	Down

1497	CTNS	cystinosin, lysosomal cystine transporter	-0.691	4.505	Down
1.01E+08	P2RX5-TAX1BP3	P2RX5-TAX1BP3 readthrough (NMD candidate)	-1.037	9.252	Down
30851	TAX1BP3	Tax1 binding protein 3	-0.52	1.627	Down
83460	EMC6	ER membrane protein complex subunit 6	-0.744	3.412	Down
5026	P2RX5	purinergic receptor P2X 5	-2.546	11.414	Down
83903	HASPIN	histone H3 associated protein kinase	-2.018	4.219	Down
10514	MYBBP1A	MYB binding protein 1a	-1.067	3.716	Down
27043	PELP1	proline, glutamate and leucine rich protein 1	-0.492	2.139	Down
5694	PSMB6	proteasome 20S subunit beta 6	-1.983	30.077	Down
1E+08	C17orf107	chromosome 17 open reading frame 107	-1.858	2.956	Down
8402	SLC25A11	solute carrier family 25 member 11	-0.943	7.572	Down
5216	PFN1	profilin 1	-1.617	12.955	Down
10749	KIF1C	kinesin family member 1C	-0.715	1.581	Down
4927	NUP88	nucleoporin 88	-1.196	15.366	Down
84268	RPAIN	RPA interacting protein	-0.728	2.185	Down
708	C1QBP	complement C1q binding protein	-1.29	4.364	Down
56919	DHX33	DEAH-box helicase 33	-0.688	8.501	Down
51009	DERL2	derlin 2	-0.374	1.745	Down
79003	MIS12	MIS12 kinetochore complex component	-0.44	1.865	Down
54478	PIMREG	PICALM interacting mitotic regulator	-2.479	3.147	Down
84817	TXNDC17	thioredoxin domain containing 17	-1.573	9.096	Down
54739	XAF1	XIAP associated factor 1	-2.216	1.76	Down
1.01E+08	RNASEK-C17orf49	RNASEK-C17orf49 readthrough	-0.871	6.218	Down
124944	C17orf49	chromosome 17 open reading frame 49	-2.089	14.273	Down
1.01E+08	MIR497HG	mir-497-195 cluster host gene	-2.114	15.326	Down
255877	BCL6B	BCL6B transcription repressor	-4.046	2.493	Down
201232	SLC16A13	solute carrier family 16 member 13	-1.303	6.636	Down
162515	SLC16A11	solute carrier family 16 member 11	-2.677	4.41	Down

23587	ELP5	elongator acetyltransferase complex subunit 5	-1.002	4.014	Down
1984	EIF5A	eukaryotic translation initiation factor 5A	-2.503	15.852	Down
2874	GPS2	G protein pathway suppressor 2	-0.388	1.732	Down
26168	SENP3	SUMO specific peptidase 3	-0.989	7.067	Down
1.01E+08	SENP3-EIF4A1	SENP3-EIF4A1 readthrough (NMD candidate)	-1.694	13.398	Down
1973	EIF4A1	eukaryotic translation initiation factor 4A1	-1.761	13.163	Down
9526	MPDU1	mannose-P-dolichol utilization defect 1	-2.292	33.659	Down
9513	FXR2	FMR1 autosomal homolog 2	-0.486	2.404	Down
7157	TP53	tumor protein p53	-1.237	9.135	Down
23135	KDM6B	lysine demethylase 6B	-1.099	2.905	Down
1.08E+08	LOC107987244	uncharacterized LOC107987244	-1.079	2.577	Down
92162	TMEM88	transmembrane protein 88	-3.073	4.394	Down
58485	TRAPPC1	trafficking protein particle complex subunit 1	-0.609	2.903	Down
116840	CNTROB	centrobin, centriole duplication and spindle assembly protein	-0.644	1.6	Down
5198	PFAS	phosphoribosylformylglycinamidine synthase	-2.27	27.807	Down
399512	SLC25A35	solute carrier family 25 member 35	-0.734	6.614	Down
29098	RANGRF	RAN guanine nucleotide release factor	-0.78	6.408	Down
146850	PIK3R6	phosphoinositide-3-kinase regulatory subunit 6	-1.276	2.295	Down
6416	MAP2K4	mitogen-activated protein kinase kinase 4	-0.448	2.223	Down
60528	ELAC2	elaC ribonuclease Z 2	-0.744	12.624	Down
201158	TVP23C	trans-golgi network vesicle protein 23 homolog C	-0.626	1.478	Down
201161	CENPV	centromere protein V	-1.951	7.66	Down
7314	UBB	ubiquitin B	-1.727	14.022	Down
201164	PLD6	phospholipase D family member 6	-0.64	2.333	Down
8533	COPS3	COP9 signalosome subunit 3	-0.699	1.726	Down
10400	PEMT	phosphatidylethanolamine N-methyltransferase	-0.718	2.92	Down
6720	SREBF1	sterol regulatory element binding transcription factor 1	-1.134	3.468	Down
51030	TVP23B	trans-golgi network vesicle protein 23 homolog B	-0.635	2.737	Down

25979	DHRS7B	dehydrogenase/reductase 7B	-1.339	5.474	Down
5606	MAP2K3	mitogen-activated protein kinase kinase 3	-0.814	7.716	Down
339263	LINC02693	long intergenic non-protein coding RNA 2693	-0.555	1.783	Down
23666	UBBP4	ubiquitin B pseudogene 4	-1.864	10.568	Down
8844	KSR1	kinase suppressor of ras 1	-1.723	6.365	Down
3965	LGALS9	galectin 9	-2.088	4.841	Down
27346	TMEM97	transmembrane protein 97	-0.922	2.487	Down
7126	TNFAIP1	TNF alpha induced protein 1	-0.657	4.391	Down
26073	POLDIP2	DNA polymerase delta interacting protein 2	-1.107	11.772	Down
9094	UNC119	unc-119 lipid binding chaperone	-0.826	4.969	Down
10615	SPAG5	sperm associated antigen 5	-1.036	1.627	Down
116238	TLCD1	TLC domain containing 1	-0.707	1.638	Down
9618	TRAF4	TNF receptor associated factor 4	-4.368	35.629	Down
26284	ERAL1	Era like 12S mitochondrial rRNA chaperone 1	-1.26	11.769	Down
124930	ANKRD13B	ankyrin repeat domain 13B	-2.196	5.212	Down
9527	GOSR1	golgi SNAP receptor complex member 1	-0.457	2.266	Down
79915	ATAD5	ATPase family AAA domain containing 5	-1.47	2.148	Down
79736	TEFM	transcription elongation factor, mitochondrial	-0.615	1.892	Down
55352	COPRS	coordinator of PRMT5 and differentiation stimulator	-1.735	18.366	Down
55813	UTP6	UTP6 small subunit processome component	-1.541	13.237	Down
23512	SUZ12	SUZ12 polycomb repressive complex 2 subunit	-0.312	1.404	Down
64149	C17orf75	chromosome 17 open reading frame 75	-0.613	4.911	Down
693217	MIR632	microRNA 632	-1.88	16.909	Down
7756	ZNF207	zinc finger protein 207	-1.761	36.571	Down
5717	PSMD11	proteasome 26S subunit, non-ATPase 11	-1.641	49.652	Down
6346	CCL1	C-C motif chemokine ligand 1	-2.731	1.322	Down
3980	LIG3	DNA ligase 3	-0.422	2.193	Down
54475	NLE1	notchless homolog 1	-0.399	1.858	Down

91607	SLFN11	schlafen family member 11	-0.753	3.329	Down
163	AP2B1	adaptor related protein complex 2 subunit beta 1	-0.639	5.682	Down
91608	RASL10B	RAS like family 10 member B	-1.664	1.446	Down
1.03E+08	CCL3-AS1	CCL3 antisense RNA 1	-2.251	1.377	Down
6348	CCL3	C-C motif chemokine ligand 3	-5.59	5.605	Down
6351	CCL4	C-C motif chemokine ligand 4	-5.967	23.409	Down
414062	CCL3L3	C-C motif chemokine ligand 3 like 3	-3.948	1.41	Down
9560	CCL4L2	C-C motif chemokine ligand 4 like 2	-5.085	7.301	Down
1.05E+08	LOC105371749	uncharacterized LOC105371749	-2.364	2.033	Down
80179	MYO19	myosin XIX	-0.941	11.179	Down
284098	PIGW	phosphatidylinositol glycan anchor biosynthesis class W	-1.678	13.498	Down
26574	AATF	apoptosis antagonizing transcription factor	-0.648	3.061	Down
31	ACACA	acetyl-CoA carboxylase alpha	-1.312	4.224	Down
11072	DUSP14	dual specificity phosphatase 14	-0.717	2.8	Down
11056	DDX52	DExD-box helicase 52	-0.509	4.54	Down
57636	ARHGAP23	Rho GTPase activating protein 23	-1.605	2.516	Down
1E+08	EPOP	elongin BC and polycomb repressive complex 2 associated protein	-4.455	13.479	Down
1.05E+08	LOC105371763	uncharacterized LOC105371763	-1.068	3.445	Down
284106	CISD3	CDGSH iron sulfur domain 3	-1.905	13.993	Down
7703	PCGF2	polycomb group ring finger 2	-1.519	5.031	Down
5691	PSMB3	proteasome 20S subunit beta 3	-1.802	9.684	Down
54883	CWC25	CWC25 spliceosome associated protein homolog	-0.875	6.051	Down
51755	CDK12	cyclin dependent kinase 12	-0.555	2.21	Down
84299	MIEN1	migration and invasion enhancer 1	-0.916	3.242	Down
2886	GRB7	growth factor receptor bound protein 7	-3.548	1.847	Down
94103	ORMDL3	ORMDL sphingolipid biosynthesis regulator 3	-0.912	2.145	Down
5709	PSMD3	proteasome 26S subunit, non-ATPase 3	-1.817	29.969	Down
9862	MED24	mediator complex subunit 24	-0.884	7.914	Down

990	CDC6	cell division cycle 6	-3.201	10.73	Down
5914	RARA	retinoic acid receptor alpha	-0.708	1.631	Down
125111	GJD3	gap junction protein delta 3	-1.5	2.454	Down
7153	TOP2A	DNA topoisomerase II alpha	-0.997	1.522	Down
3487	IGFBP4	insulin like growth factor binding protein 4	-1.328	1.993	Down
84951	TNS4	tensin 4	-3.018	6.743	Down
6605	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	-0.343	1.564	Down
115024	NT5C3B	5'-nucleotidase, cytosolic IIIB	-0.793	1.638	Down
47	ACLY	ATP citrate lyase	-0.993	16.602	Down
7266	DNAJC7	DnaJ heat shock protein family (Hsp40) member C7	-0.82	13.91	Down
28511	NKIRAS2	NFKB inhibitor interacting Ras like 2	-0.41	2.064	Down
2648	KAT2A	lysine acetyltransferase 2A	-0.55	3.013	Down
23415	KCNH4	potassium voltage-gated channel subfamily H member 4	-2.944	3.738	Down
6776	STAT5A	signal transducer and activator of transcription 5A	-0.678	5.023	Down
6774	STAT3	signal transducer and activator of transcription 3	-0.457	1.517	Down
535	ATP6V0A1	ATPase H+ transporting V0 subunit a1	-0.527	2.601	Down
80347	COASY	Coenzyme A synthase	-0.472	5.139	Down
6945	MLX	MAX dimerization protein MLX	-0.551	2.201	Down
29893	PSMC3IP	PSMC3 interacting protein	-0.604	1.592	Down
7283	TUBG1	tubulin gamma 1	-2.211	21.674	Down
79990	PLEKHH3	pleckstrin homology, MyTH4 and FERM domain containing H3	-2.541	2.305	Down
2826	CCR10	C-C motif chemokine receptor 10	-2.365	3.602	Down
8506	CNTNAP1	contactin associated protein 1	-1.838	7.909	Down
84313	VPS25	vacuolar protein sorting 25 homolog	-0.972	6.23	Down
28958	COA3	cytochrome c oxidase assembly factor 3	-0.634	1.391	Down
10197	PSME3	proteasome activator subunit 3	-1.631	14.823	Down
1.01E+08	PTGES3L-AARSD1	PTGES3L-AARSD1 readthrough	-1.325	4.755	Down
80755	AARSD1	alanyl-tRNA synthetase domain containing 1	-1.337	4.77	Down

3430	IFI35	interferon induced protein 35	-2.635	12.135	Down
672	BRCA1	BRCA1 DNA repair associated	-1.032	1.536	Down
124801	LSM12	LSM12 homolog	-0.926	14.063	Down
92579	G6PC3	glucose-6-phosphatase catalytic subunit 3	-1.229	8.247	Down
78995	HROB	homologous recombination factor with OB-fold	-1.523	2.373	Down
56970	ATXN7L3	ataxin 7 like 3	-0.458	2.786	Down
51629	SLC25A39	solute carrier family 25 member 39	-1.58	23.359	Down
124808	CCDC43	coiled-coil domain containing 43	-0.474	1.905	Down
80174	DBF4B	DBF4 zinc finger B	-0.891	1.797	Down
9343	EFTUD2	elongation factor Tu GTP binding domain containing 2	-1.205	7.821	Down
4836	NMT1	N-myristoyltransferase 1	-0.357	4.534	Down
10614	HEXIM1	HEXIM P-TEFb complex subunit 1	-0.694	2.1	Down
9020	MAP3K14	mitogen-activated protein kinase kinase kinase 14	-1.417	2.105	Down
9570	GOSR2	golgi SNAP receptor complex member 2	-0.768	6.019	Down
996	CDC27	cell division cycle 27	-0.451	4.133	Down
9520	NPEPPS	aminopeptidase puromycin sensitive	-0.341	2.603	Down
1.12E+08	KPNB1-DT	KPNB1 divergent transcript	-0.787	7.975	Down
3837	KPNB1	karyopherin subunit beta 1	-1.234	7.154	Down
9755	TBKBP1	TBK1 binding protein 1	-2.671	7.955	Down
30009	TBX21	T-box transcription factor 21	-4.005	32.769	Down
1.01E+08	SP2-AS1	SP2 antisense RNA 1	-1.693	2.42	Down
55163	PNPO	pyridoxamine 5'-phosphate oxidase	-1.212	10.309	Down
29916	SNX11	sorting nexin 11	-1.495	10.546	Down
3219	HOXB9	homeobox B9	-6.025	4.113	Down
10241	CALCOCO2	calcium binding and coiled-coil domain 2	-0.713	4.578	Down
516	ATP5MC1	ATP synthase membrane subunit c locus 1	-1.821	7.968	Down
65264	UBE2Z	ubiquitin conjugating enzyme E2 Z	-0.947	5.486	Down
11267	SNF8	SNF8 subunit of ESCRT-II	-1.08	10.796	Down

2793	GNGT2	G protein subunit gamma transducin 2	-1.541	9.765	Down
51225	ABI3	ABI family member 3	-0.985	4.472	Down
5245	PHB1	prohibitin 1	-1.95	14.027	Down
10237	SLC35B1	solute carrier family 35 member B1	-1.626	20.462	Down
51264	MRPL27	mitochondrial ribosomal protein L27	-1.534	9.718	Down
146956	EME1	essential meiotic structure-specific endonuclease 1	-1.437	7.697	Down
55379	LRRC59	leucine rich repeat containing 59	-1.626	13.776	Down
91369	ANKRD40	ankyrin repeat domain 40	-0.476	2.105	Down
654364	NME1-NME2	NME1-NME2 readthrough	-1.844	15.779	Down
4830	NME1	NME/NM23 nucleoside diphosphate kinase 1	-3.668	40.154	Down
4831	NME2	NME/NM23 nucleoside diphosphate kinase 2	-1.443	7.87	Down
23531	MMD	monocyte to macrophage differentiation associated	-0.736	1.403	Down
58488	PCTP	phosphatidylcholine transfer protein	-0.856	3.177	Down
8526	DGKE	diacylglycerol kinase epsilon	-0.808	4.573	Down
7706	TRIM25	tripartite motif containing 25	-1.564	8.913	Down
1.01E+08	MIR3614	microRNA 3614	-1.286	2.76	Down
8161	COIL	coilin	-0.35	1.369	Down
51649	MRPS23	mitochondrial ribosomal protein S23	-1.065	6.933	Down
6426	SRSF1	serine and arginine rich splicing factor 1	-2.066	42.263	Down
54894	RNF43	ring finger protein 43	-0.779	1.333	Down
124535	HSF5	heat shock transcription factor 5	-1.098	6.142	Down
5889	RAD51C	RAD51 paralog C	-0.898	2.506	Down
55181	SMG8	SMG8 nonsense mediated mRNA decay factor	-0.398	1.542	Down
1213	CLTC	clathrin heavy chain	-0.915	5.256	Down
51651	PTRH2	peptidyl-tRNA hydrolase 2	-0.736	3.049	Down
81671	VMP1	vacuole membrane protein 1	-0.612	1.996	Down
57508	INTS2	integrator complex subunit 2	-0.569	2.454	Down
339175	METTL2A	methyltransferase 2A, methylcytidine	-1.211	11.654	Down

1.08E+08	LOC107985020	uncharacterized LOC107985020	-2.975	2.6	Down
9902	MRC2	mannose receptor C type 2	-2.103	5.936	Down
51204	TACO1	translational activator of cytochrome c oxidase I	-0.449	1.386	Down
57003	CCDC47	coiled-coil domain containing 47	-0.903	9.561	Down
117246	FTSJ3	FtsJ RNA 2'-O-methyltransferase 3	-1.321	16.577	Down
5705	PSMC5	proteasome 26S subunit, ATPase 5	-1.237	11.242	Down
1655	DDX5	DEAD-box helicase 5	-1.058	27.981	Down
8787	RGS9	regulator of G protein signaling 9	-1.585	3.824	Down
5718	PSMD12	proteasome 26S subunit, non-ATPase 12	-1.463	12.042	Down
25926	NOL11	nucleolar protein 11	-0.79	4.152	Down
284018	C17orf58	chromosome 17 open reading frame 58	-2.254	7.514	Down
3838	KPNA2	karyopherin subunit alpha 2	-2.181	21.269	Down
55062	WIPI1	WD repeat domain, phosphoinositide interacting 1	-1.09	5.368	Down
2232	FDXR	ferredoxin reductase	-0.755	2.314	Down
30850	CDR2L	cerebellar degeneration related protein 2 like	-3.111	1.774	Down
3396	MRPL58	mitochondrial ribosomal protein L58	-0.783	1.735	Down
30833	NT5C	5', 3'-nucleotidase, cytosolic	-1.2	5.83	Down
1.08E+08	LOC107985034	uncharacterized LOC107985034	-1.238	11.608	Down
51155	JPT1	Jupiter microtubule associated homolog 1	-1.021	7.627	Down
6613	SUMO2	small ubiquitin like modifier 2	-0.551	1.437	Down
79902	NUP85	nucleoporin 85	-0.491	3.161	Down
51081	MRPS7	mitochondrial ribosomal protein S7	-1.456	7.149	Down
1E+08	MIF4GD-DT	MIF4GD divergent transcript	-0.663	1.362	Down
60386	SLC25A19	solute carrier family 25 member 19	-1.153	4.583	Down
57513	CASKIN2	CASK interacting protein 2	-2.206	2.101	Down
3021	H3-3B	H3.3 histone B	-0.734	3.702	Down
64978	MRPL38	mitochondrial ribosomal protein L38	-0.479	2.643	Down
6730	SRP68	signal recognition particle 68	-0.422	2.719	Down

8811	GALR2	galanin receptor 2	-4.371	18.377	Down
8877	SPHK1	sphingosine kinase 1	-1.151	1.522	Down
23210	JMJD6	jumonji domain containing 6, arginine demethylase and lysine hydroxylase	-0.799	3.591	Down
6427	SRSF2	serine and arginine rich splicing factor 2	-2.234	29.537	Down
693221	MIR636	microRNA 636	-2.601	15.191	Down
79157	MFSD11	major facilitator superfamily domain containing 11	-1.713	15.691	Down
9144	SYNGR2	synaptogyrin 2	-1.447	10.306	Down
7083	TK1	thymidine kinase 1	-1.988	5.249	Down
125061	AFMID	arylformamidase	-1.597	3.19	Down
332	BIRC5	baculoviral IAP repeat containing 5	-1.485	2.057	Down
9021	SOCS3	suppressor of cytokine signaling 3	-1.215	1.563	Down
3959	LGALS3BP	galectin 3 binding protein	-1.201	12.066	Down
114897	C1QTNF1	C1q and TNF related 1	-2.431	2.463	Down
9775	EIF4A3	eukaryotic translation initiation factor 4A3	-1.258	9.468	Down
57674	RNF213	ring finger protein 213	-1.671	4.821	Down
1E+08	RNF213-AS1	RNF213 antisense RNA 1	-1.61	3.665	Down
4884	NPTX1	neuronal pentraxin 1	-2.432	4.018	Down
57521	RPTOR	regulatory associated protein of MTOR complex 1	-0.68	3.368	Down
79643	CHMP6	charged multivesicular body protein 6	-0.795	2.477	Down
284184	NDUFAF8	NADH:ubiquinone oxidoreductase complex assembly factor 8	-1.388	7.328	Down
71	ACTG1	actin gamma 1	-1.764	9.343	Down
80233	FAAP100	FA core complex associated protein 100	-0.809	3.844	Down
55666	NPLOC4	NPL4 homolog, ubiquitin recognition factor	-0.936	11.401	Down
6182	MRPL12	mitochondrial ribosomal protein L12	-2.244	18.512	Down
1468	SLC25A10	solute carrier family 25 member 10	-3.017	47.322	Down
348262	MCRIP1	MAPK regulated corepressor interacting protein 1	-0.617	2.703	Down
5034	P4HB	prolyl 4-hydroxylase subunit beta	-0.52	1.636	Down
396	ARHGDIA	Rho GDP dissociation inhibitor alpha	-1.211	12.634	Down

10189	ALYREF	Aly/REF export factor	-2.096	19.56	Down
51529	ANAPC11	anaphase promoting complex subunit 11	-1.132	4.549	Down
5833	PCYT2	phosphate cytidylyltransferase 2, ethanolamine	-0.452	1.675	Down
4097	MAFG	MAF bZIP transcription factor G	-1.275	9.881	Down
92659	MILIP	MYC inducible lncRNA inactivating p53	-3.779	3.248	Down
5831	PYCR1	pyrroline-5-carboxylate reductase 1	-4.728	33.227	Down
79058	ASPSCR1	ASPSCR1 tether for SLC2A4, UBX domain containing	-0.367	1.346	Down
201254	CENPX	centromere protein X	-1.243	7.189	Down
2873	GPS1	G protein pathway suppressor 1	-0.889	8.11	Down
64118	DUS1L	dihydrouridine synthase 1 like	-1.196	12.915	Down
2194	FASN	fatty acid synthase	-1.825	7.43	Down
9123	SLC16A3	solute carrier family 16 member 3	-0.932	3.118	Down
6398	SECTM1	secreted and transmembrane 1	-1.796	5.694	Down
400629	TEX19	testis expressed 19	-5.854	5.371	Down
79701	OGFOD3	2-oxoglutarate and iron dependent oxygenase domain containing 3	-0.474	1.735	Down
26502	NARF	nuclear prelamin A recognition factor	-0.746	1.421	Down
146712	B3GNTL1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase like 1	-0.676	1.911	Down
403340	MGC70870	C-terminal binding protein 2 pseudogene	-1.08	4.951	Down
9097	USP14	ubiquitin specific peptidase 14	-0.97	8.186	Down
9984	THOC1	THO complex subunit 1	-0.483	3.436	Down
494514	TYMSOS	TYMS opposite strand RNA	-2.502	3.116	Down
7298	TYMS	thymidylate synthetase	-2.075	7.987	Down
55556	ENOSF1	enolase superfamily member 1	-0.686	1.561	Down
7525	YES1	YES proto-oncogene 1, Src family tyrosine kinase	-1.062	3.408	Down
9663	LPIN2	lipin 2	-0.955	13.641	Down
727896	CHORDC1P4	CHORDC1 pseudogene 4	-1.71	11.314	Down
4729	NDUFV2	NADH:ubiquinone oxidoreductase core subunit V2	-1.695	13.804	Down
57045	TWSG1	twisted gastrulation BMP signaling modulator 1	-0.828	1.561	Down

9989	PPP4R1	protein phosphatase 4 regulatory subunit 1	-0.577	3.889	Down
9218	VAPA	VAMP associated protein A	-0.555	1.988	Down
8774	NAPG	NSF attachment protein gamma	-0.701	4.904	Down
10939	AFG3L2	AFG3 like matrix AAA peptidase subunit 2	-0.545	5.316	Down
1.08E+08	LOC107985154	uncharacterized LOC107985154	-0.625	1.715	Down
56907	SPIRE1	spire type actin nucleation factor 1	-1.071	4.726	Down
1.01E+08	LINC01882	long intergenic non-protein coding RNA 1882	-1.807	1.379	Down
81929	SEH1L	SEH1 like nucleoporin	-1.693	17.827	Down
125228	FAM210A	family with sequence similarity 210 member A	-0.601	3.261	Down
6632	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide	-1.702	16.93	Down
5932	RBBP8	RB binding protein 8, endonuclease	-2.56	9.339	Down
85019	TMEM241	transmembrane protein 241	-1.444	11.02	Down
8780	RIOK3	RIO kinase 3	-0.445	2.931	Down
29919	RMC1	regulator of MON1-CCZ1	-0.523	3.44	Down
54941	RNF125	ring finger protein 125	-0.469	1.394	Down
1.08E+08	LOC107985139		-0.831	6.802	Down
7572	ZNF24	zinc finger protein 24	-0.601	2.914	Down
125476	INO80C	INO80 complex subunit C	-0.892	3.759	Down
25800	SLC39A6	solute carrier family 39 member 6	-0.299	2.035	Down
1.02E+08	SETBP1-DT	SETBP1 divergent transcript	-3.489	2.885	Down
26040	SETBP1	SET binding protein 1	-3.271	3.027	Down
9050	PSTPIP2	proline-serine-threonine phosphatase interacting protein 2	-0.789	1.811	Down
147339	C18orf25	chromosome 18 open reading frame 25	-0.459	1.647	Down
51124	IER3IP1	immediate early response 3 interacting protein 1	-0.545	1.638	Down
4200	ME2	malic enzyme 2	-1.251	20.456	Down
8932	MBD2	methyl-CpG binding domain protein 2	-0.713	5.176	Down
5874	RAB27B	RAB27B, member RAS oncogene family	-1.063	1.313	Down
4677	NARS1	asparaginyl-tRNA synthetase 1	-0.837	1.943	Down

90701	SEC11C	SEC11 homolog C, signal peptidase complex subunit	-1.352	4.601	Down
3998	LMAN1	lectin, mannose binding 1	-1.549	28.727	Down
5366	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	-3.366	23.53	Down
8792	TNFRSF11A	TNF receptor superfamily member 11a	-1.209	2.06	Down
10666	CD226	CD226 molecule	-2.122	18.613	Down
29090	TIMM21	translocase of inner mitochondrial membrane 21	-0.8	5.01	Down
1528	CYB5A	cytochrome b5 type A	-1.526	8.455	Down
55748	CNDP2	carnosine dipeptidase 2	-0.605	6.045	Down
26251	KCNG2	potassium voltage-gated channel modifier subfamily G member 2	-0.479	1.45	Down
80148	SLC66A2	solute carrier family 66 member 2	-0.45	1.895	Down
10907	TXNL4A	thioredoxin like 4A	-0.977	6.741	Down
79863	RBFA	ribosome binding factor A	-0.46	1.52	Down
22850	ADNP2	ADNP homeobox 2	-0.968	10.107	Down
54531	MIER2	MIER family member 2	-0.647	3.409	Down
682	BSG	basigin (Ok blood group)	-0.736	6.522	Down
55658	RNF126	ring finger protein 126	-0.593	2.686	Down
5725	PTBP1	polypyrimidine tract binding protein 1	-0.827	6.242	Down
79948	PLPPR3	phospholipid phosphatase related 3	-0.78	5.295	Down
57418	WDR18	WD repeat domain 18	-1.872	9.671	Down
5434	POLR2E	RNA polymerase II, I and III subunit E	-1.173	8.005	Down
84939	PWWP3A	PWWP domain containing 3A, DNA repair factor	-0.545	1.328	Down
374291	NDUFS7	NADH:ubiquinone oxidoreductase core subunit S7	-0.756	2.957	Down
26528	DAZAP1	DAZ associated protein 1	-1.077	7.869	Down
53615	MBD3	methyl-CpG binding domain protein 3	-0.891	9.031	Down
113179	ADAT3	adenosine deaminase tRNA specific 3	-0.933	3.977	Down
126308	MOB3A	MOB kinase activator 3A	-0.822	3.377	Down
113177	IZUMO4	IZUMO family member 4	-2.599	9.684	Down
55111	PLEKHJ1	pleckstrin homology domain containing J1	-0.48	2.392	Down

4946	OAZ1	ornithine decarboxylase antizyme 1	-0.936	3.766	Down
51690	LSM7	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated	-1.075	5.033	Down
26517	TIMM13	translocase of inner mitochondrial membrane 13	-1.61	9.268	Down
84823	LMNB2	lamin B2	-1.573	9.249	Down
4616	GADD45B	growth arrest and DNA damage inducible beta	-1.878	8.706	Down
29985	SLC39A3	solute carrier family 39 member 3	-0.665	2.536	Down
7064	THOP1	thimet oligopeptidase 1	-1.726	14.847	Down
2769	GNA15	G protein subunit alpha 15	-1.627	2.101	Down
1.01E+08	GNA15-DT	GNA15 divergent transcript	-1.645	2.303	Down
56926	NCLN	nicalin	-1.194	9.547	Down
83475	DOHH	deoxyhypusine hydroxylase	-1.4	8.971	Down
1.05E+08	LOC105372245	uncharacterized LOC105372245	-1.73	4.513	Down
9546	APBA3	amyloid beta precursor protein binding family A member 3	-0.484	1.894	Down
116541	MRPL54	mitochondrial ribosomal protein L54	-0.959	2.054	Down
4145	MATK	megakaryocyte-associated tyrosine kinase	-0.752	2.158	Down
51548	SIRT6	sirtuin 6	-1.303	9.58	Down
79187	FSD1	fibronectin type III and SPRY domain containing 1	-3.118	13.131	Down
55620	STAP2	signal transducing adaptor family member 2	-3.747	11.771	Down
84954	MPND	MPN domain containing	-0.791	6.473	Down
6455	SH3GL1	SH3 domain containing GRB2 like 1, endophilin A2	-0.494	3.371	Down
10036	CHAF1A	chromatin assembly factor 1 subunit A	-0.563	1.467	Down
116844	LRG1	leucine rich alpha-2-glycoprotein 1	-1.7	1.49	Down
56005	MYDGF	myeloid derived growth factor	-1.438	7.721	Down
91039	DPP9	dipeptidyl peptidase 9	-0.916	4.453	Down
1E+08	DPP9-AS1	DPP9 antisense RNA 1	-0.758	2.381	Down
55527	FEM1A	fem-1 homolog A	-0.629	2.434	Down
148022	TICAM1	TIR domain containing adaptor molecule 1	-1.533	9.941	Down
10226	PLIN3	perilipin 3	-0.497	2.303	Down

29128	UHRF1	ubiquitin like with PHD and ring finger domains 1	-3.611	8.514	Down
125988	MICOS13	mitochondrial contact site and cristae organizing system subunit 13	-0.951	2.939	Down
9361	LONP1	lon peptidase 1, mitochondrial	-1.025	4.12	Down
163154	PRR22	proline rich 22	-1.308	2.168	Down
56931	DUS3L	dihydrouridine synthase 3 like	-0.898	2.867	Down
4298	MLLT1	MLLT1 super elongation complex subunit	-0.438	1.381	Down
8192	CLPP	caseinolytic mitochondrial matrix peptidase proteolytic subunit	-0.805	3.619	Down
8570	KHSRP	KH-type splicing regulatory protein	-0.888	7.494	Down
1.01E+08	MIR3940	microRNA 3940	-1.095	5.707	Down
10382	TUBB4A	tubulin beta 4A class IVa	-2.03	7.377	Down
8744	TNFSF9	TNF superfamily member 9	-2.795	7.509	Down
970	CD70	CD70 molecule	-3.571	5.94	Down
8740	TNFSF14	TNF superfamily member 14	-2.296	17.898	Down
9322	TRIP10	thyroid hormone receptor interactor 10	-1.909	2.9	Down
10045	SH2D3A	SH2 domain containing 3A	-0.802	6.885	Down
6813	STXBP2	syntaxin binding protein 2	-0.563	4.52	Down
388499	LYPLA2P2	LYPLA2 pseudogene 2	-1.107	3.14	Down
404217	CTXN1	cortexin 1	-2.734	3.303	Down
10469	TIMM44	translocase of inner mitochondrial membrane 44	-1.235	8.332	Down
1994	ELAVL1	ELAV like RNA binding protein 1	-0.882	8.52	Down
79603	CERS4	ceramide synthase 4	-0.519	1.655	Down
51293	CD320	CD320 molecule	-1.326	9.021	Down
4701	NDUFA7	NADH:ubiquinone oxidoreductase subunit A7	-1.07	5.8	Down
4670	HNRNPM	heterogeneous nuclear ribonucleoprotein M	-1.563	26.288	Down
1.08E+08	LOC107983991	replaced by ID 105372267	-2.336	3.159	Down
54811	ZNF562	zinc finger protein 562	-0.603	3.09	Down
59286	UBL5	ubiquitin like 5	-0.724	2.163	Down
5300	PIN1	peptidylprolyl cis/trans isomerase, NIMA-interacting 1	-0.609	1.456	Down

56342	PPAN	peter pan homolog	-1.43	12.317	Down
692312	PPAN-P2RY11	PPAN-P2RY11 readthrough	-0.925	7.291	Down
51073	MRPL4	mitochondrial ribosomal protein L4	-1.821	23.062	Down
3383	ICAM1	intercellular adhesion molecule 1	-3.193	8.626	Down
112812	FDX2	ferredoxin 2	-1.124	3.993	Down
125950	RAVER1	ribonucleoprotein, PTB binding 1	-0.887	7.172	Down
11140	CDC37	cell division cycle 37, HSP90 cochaperone	-1.3	10.627	Down
1E+08	MIR1181	microRNA 1181	-1.219	8.069	Down
9817	KEAP1	kelch like ECH associated protein 1	-0.906	7.613	Down
3609	ILF3	interleukin enhancer binding factor 3	-1.007	4.934	Down
81890	QTRT1	queuine tRNA-ribosyltransferase catalytic subunit 1	-1.63	14.818	Down
11018	TMED1	transmembrane p24 trafficking protein 1	-0.98	5.766	Down
10498	CARM1	coactivator associated arginine methyltransferase 1	-0.948	11.806	Down
78992	YIPF2	Yip1 domain family member 2	-0.585	3.842	Down
6597	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	-0.784	1.607	Down
1.15E+08	LDLR-AS1	LDLR antisense RNA 1	-3.004	5.998	Down
3949	LDLR	low density lipoprotein receptor	-2.902	6.504	Down
57572	DOCK6	dedicator of cytokinesis 6	-1.426	1.75	Down
374882	TMEM205	transmembrane protein 205	-0.939	5.095	Down
64748	PLPPR2	phospholipid phosphatase related 2	-1.772	7.861	Down
126074	SWSAP1	SWIM-type zinc finger 7 associated protein 1	-0.749	1.855	Down
51295	ECSIT	ECSIT signaling integrator	-0.641	1.683	Down
664709	HNRNPA1P10	heterogeneous nuclear ribonucleoprotein A1 pseudogene 10	-1.014	4.837	Down
388507	ZNF788P	zinc finger family member 788, pseudogene	-2.21	3.953	Down
30000	TNPO2	transportin 2	-0.687	2.679	Down
439	GET3	guided entry of tail-anchored proteins factor 3, ATPase	-0.998	4.011	Down
3726	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit	-1.492	6.627	Down
7001	PRDX2	peroxiredoxin 2	-0.967	3.161	Down

10535	RNASEH2A	ribonuclease H2 subunit A	-1.036	4.244	Down
2639	GCDH	glutaryl-CoA dehydrogenase	-0.706	2.111	Down
2193	FARSA	phenylalanyl-tRNA synthetase subunit alpha	-1.387	14.52	Down
1.06E+08	FARSA-AS1	FARSA antisense RNA 1	-1.399	6.169	Down
811	CALR	calreticulin	-1.586	20.062	Down
5886	RAD23A	RAD23 homolog A, nucleotide excision repair protein	-0.693	5.232	Down
90480	GADD45GIP1	GADD45G interacting protein 1	-1.106	6.319	Down
4784	NFIX	nuclear factor I X	-1.961	12.338	Down
1.05E+08	LOC105372282	uncharacterized LOC105372282	-0.995	4.306	Down
55621	TRMT1	tRNA methyltransferase 1	-1.082	9.831	Down
112939	NACC1	nucleus accumbens associated 1	-1.239	11.562	Down
9592	IER2	immediate early response 2	-0.481	2.061	Down
773	CACNA1A	calcium voltage-gated channel subunit alpha1 A	-1.759	2.868	Down
65249	ZSWIM4	zinc finger SWIM-type containing 4	-0.538	1.439	Down
90379	DCAF15	DDB1 and CUL4 associated factor 15	-0.23	1.393	Down
9466	IL27RA	interleukin 27 receptor subunit alpha	-1.281	13.921	Down
5566	PRKACA	protein kinase cAMP-activated catalytic subunit alpha	-0.411	2.711	Down
55723	ASF1B	anti-silencing function 1B histone chaperone	-1.403	5.289	Down
10212	DDX39A	DExD-box helicase 39A	-2.162	40.337	Down
10755	GIPC1	GIPC PDZ domain containing family member 1	-1.058	5.069	Down
4713	NDUFB7	NADH:ubiquinone oxidoreductase subunit B7	-1.077	2.536	Down
58525	WIZ	WIZ zinc finger	-0.846	3.813	Down
64926	RASAL3	RAS protein activator like 3	-0.806	3.876	Down
7171	TPM4	tropomyosin 4	-2.013	7.536	Down
4218	RAB8A	RAB8A, member RAS oncogene family	-0.773	7.209	Down
2063	NR2F6	nuclear receptor subfamily 2 group F member 6	-0.794	2.086	Down
29086	BABAM1	BRISC and BRCA1 A complex member 1	-0.71	2.755	Down
126549	ANKLE1	ankyrin repeat and LEM domain containing 1	-1.736	4.077	Down

79016	DDA1	DET1 and DDB1 associated 1	-0.715	6.777	Down
684	BST2	bone marrow stromal cell antigen 2	-1.959	13.383	Down
1.05E+08	BISPR	BST2 interferon stimulated positive regulator	-0.957	3.487	Down
115098	CCDC124	coiled-coil domain containing 124	-1.871	15.186	Down
3594	IL12RB1	interleukin 12 receptor subunit beta 1	-1.285	9.569	Down
5296	PIK3R2	phosphoinositide-3-kinase regulatory subunit 2	-0.431	2.368	Down
84769	MPV17L2	MPV17 mitochondrial inner membrane protein like 2	-1.418	13.185	Down
3727	JUND	JunD proto-oncogene, AP-1 transcription factor subunit	-0.774	3.126	Down
25804	LSM4	LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.662	2.295	Down
170463	SSBP4	single stranded DNA binding protein 4	-1.106	5.003	Down
51477	ISYNA1	inositol-3-phosphate synthase 1	-0.552	1.818	Down
11316	COPE	COPI coat complex subunit epsilon	-0.773	2.512	Down
54555	DDX49	DEAD-box helicase 49	-1.007	7.971	Down
93436	ARMC6	armadillo repeat containing 6	-1.849	22.996	Down
729991	BORCS8	BLOC-1 related complex subunit 8	-1.247	6.171	Down
8625	RFXANK	regulatory factor X associated ankyrin containing protein	-0.741	2.207	Down
126382	NR2C2AP	nuclear receptor 2C2 associated protein	-0.628	3.176	Down
51079	NDUFA13	NADH:ubiquinone oxidoreductase subunit A13	-1.053	3.51	Down
57130	ATP13A1	ATPase 13A1	-0.59	1.966	Down
1.05E+08	LOC105372309	uncharacterized LOC105372309	-4.053	3.351	Down
7386	UQCRFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	-0.791	2.882	Down
10775	POP4	POP4 homolog, ribonuclease P/MRP subunit	-0.815	6.324	Down
83636	C19orf12	chromosome 19 open reading frame 12	-0.739	12.443	Down
898	CCNE1	cyclin E1	-2.759	10.582	Down
9141	PDCD5	programmed cell death 5	-1.33	10.979	Down
390916	NUDT19	nudix hydrolase 19	-0.601	3.172	Down
85415	RHPN2	rhophilin Rho GTPase binding protein 2	-2.272	4.635	Down
1054	CEBPG	CCAAT enhancer binding protein gamma	-0.676	3.251	Down

5184	PEPD	peptidase D	-0.781	5.626	Down
84306	PDCD2L	programmed cell death 2 like	-1.806	7.793	Down
10054	UBA2	ubiquitin like modifier activating enzyme 2	-0.442	2.367	Down
2865	FFAR3	free fatty acid receptor 3	-6.025	8.855	Down
2866	GPR42	G protein-coupled receptor 42	-5.689	5.256	Down
1.01E+08	TMEM147-AS1	TMEM147 antisense RNA 1	-0.656	1.878	Down
10430	TMEM147	transmembrane protein 147	-0.824	2.913	Down
79171	RBM42	RNA binding motif protein 42	-0.931	6.447	Down
27033	ZBTB32	zinc finger and BTB domain containing 32	-5.204	12.115	Down
55851	PSENEN	presenilin enhancer, gamma-secretase subunit	-0.977	7.458	Down
84063	KIRREL2	kirre like nephrin family adhesion molecule 2	-2.474	3.844	Down
84807	NFKBID	NFKB inhibitor delta	-4.174	17.478	Down
84964	ALKBH6	alkB homolog 6	-0.538	2.353	Down
5438	POLR2I	RNA polymerase II subunit I	-0.573	1.678	Down
1155	TBCB	tubulin folding cofactor B	-0.896	4.156	Down
826	CAPNS1	calpain small subunit 1	-0.553	4.118	Down
10653	SPINT2	serine peptidase inhibitor, Kunitz type 2	-2.084	14.451	Down
90522	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein	-1.105	7.958	Down
9424	KCNK6	potassium two pore domain channel subfamily K member 6	-0.452	1.538	Down
5714	PSMD8	proteasome 26S subunit, non-ATPase 8	-1.562	14.875	Down
115727	RASGRP4	RAS guanyl releasing protein 4	-1.038	1.896	Down
6261	RYR1	ryanodine receptor 1	-0.904	2.164	Down
81	ACTN4	actinin alpha 4	-0.757	1.616	Down
3191	HNRNPL	heterogeneous nuclear ribonucleoprotein L	-0.975	13.721	Down
4793	NFKBIB	NFKB inhibitor beta	-1.492	7.234	Down
643669	CCER2	coiled-coil glutamate rich protein 2	-1.437	4.269	Down
54938	SARS2	seryl-tRNA synthetase 2, mitochondrial	-1.271	8.795	Down
6183	MRPS12	mitochondrial ribosomal protein S12	-1.23	6.52	Down

10298	PAK4	p21 (RAC1) activated kinase 4	-0.92	5.741	Down
55095	SAMD4B	sterile alpha motif domain containing 4B	-0.546	1.369	Down
54623	PAF1	PAF1 homolog, Paf1/RNA polymerase II complex component	-0.647	3.319	Down
6829	SUPT5H	SPT5 homolog, DSIF elongation factor subunit	-0.428	1.454	Down
92609	TIMM50	translocase of inner mitochondrial membrane 50	-1.462	24.536	Down
10683	DLL3	delta like canonical Notch ligand 3	-2.813	1.884	Down
400696	LGALS17A	galectin 14 pseudogene	-4.87	9.94	Down
56891	LGALS14	galectin 14	-4.581	9.158	Down
1178	CLC	Charcot-Leyden crystal galectin	-4.444	4.379	Down
5704	PSMC4	proteasome 26S subunit, ATPase 4	-1.896	30.29	Down
208	AKT2	AKT serine/threonine kinase 2	-0.471	3.191	Down
126526	C19orf47	chromosome 19 open reading frame 47	-0.448	1.8	Down
29950	SERTAD1	SERTA domain containing 1	-1.372	9.475	Down
92799	SHKBP1	SH3KBP1 binding protein 1	-0.413	2.822	Down
9253	NUMBL	NUMB like endocytic adaptor protein	-1.429	2.764	Down
80271	ITPKC	inositol-trisphosphate 3-kinase C	-0.68	2.062	Down
284325	ACTMAP	actin maturation protease	-0.662	4.259	Down
6626	SNRPA	small nuclear ribonucleoprotein polypeptide A	-1.807	20.712	Down
7040	TGFB1	transforming growth factor beta 1	-0.854	3.338	Down
56915	EXOSC5	exosome component 5	-0.728	1.699	Down
55101	DMAC2	distal membrane arm assembly component 2	-0.755	9.343	Down
2931	GSK3A	glycogen synthase kinase 3 alpha	-0.544	2.075	Down
5050	PAFAH1B3	platelet activating factor acetylhydrolase 1b catalytic subunit 3	-0.96	3.954	Down
284338	PRR19	proline rich 19	-0.994	2.992	Down
3991	LIPE	lipase E, hormone sensitive type	-0.429	1.356	Down
23474	ETHE1	ETHE1 persulfide dioxygenase	-0.97	3.413	Down
126298	IRGQ	immunity related GTPase Q	-1.532	5.991	Down
79177	ZNF576	zinc finger protein 576	-0.541	2.044	Down

199731	CADM4	cell adhesion molecule 4	-0.892	1.791	Down
56006	SMG9	SMG9 nonsense mediated mRNA decay factor	-0.814	2.693	Down
3783	KCNN4	potassium calcium-activated channel subfamily N member 4	-1.559	6.313	Down
5817	PVR	PVR cell adhesion molecule	-1.586	1.548	Down
602	BCL3	BCL3 transcription coactivator	-1.352	2.19	Down
10452	TOMM40	translocase of outer mitochondrial membrane 40	-2.264	29.412	Down
5971	RELB	RELB proto-oncogene, NF-kB subunit	-2.344	15.418	Down
79760	GEMIN7	gem nuclear organelle associated protein 7	-0.694	2.331	Down
1.05E+08	GEMIN7-AS1	GEMIN7 antisense RNA 1	-0.73	2.482	Down
147700	KLC3	kinesin light chain 3	-1.701	2.819	Down
2068	ERCC2	ERCC excision repair 2, TFIIH core complex helicase subunit	-0.661	3.524	Down
10849	POLR1G	RNA polymerase I subunit G	-1.246	4.688	Down
2067	ERCC1	ERCC excision repair 1, endonuclease non-catalytic subunit	-1.299	15.77	Down
6253	RTN2	reticulon 2	-1.274	2.258	Down
7408	VASP	vasodilator stimulated phosphoprotein	-1.377	14.598	Down
24139	EML2	EMAP like 2	-1.329	6.944	Down
1E+08	EML2-AS1	EML2 antisense RNA 1	-2.209	8.724	Down
1762	DMWD	DM1 locus, WD repeat containing	-0.715	2.248	Down
3171	FOXA3	forkhead box A3	-1.981	1.805	Down
5536	PPP5C	protein phosphatase 5 catalytic subunit	-1.678	31.715	Down
1.05E+08	LOC105372426	uncharacterized LOC105372426	-1.534	6.591	Down
808	CALM3	calmodulin 3	-0.548	2.932	Down
5739	PTGIR	prostaglandin I2 receptor	-0.697	3.025	Down
94235	GNG8	G protein subunit gamma 8	-6.268	7.218	Down
147906	DACT3	dishevelled binding antagonist of beta catenin 3	-4.426	11.05	Down
79147	FKRP	fukutin related protein	-0.706	2.297	Down
6510	SLC1A5	solute carrier family 1 member 5	-3.527	19.251	Down
1175	AP2S1	adaptor related protein complex 2 subunit sigma 1	-0.599	1.588	Down

54958	TMEM160	transmembrane protein 160	-0.625	1.563	Down
10055	SAE1	SUMO1 activating enzyme subunit 1	-0.947	9.496	Down
26093	CCDC9	coiled-coil domain containing 9	-0.703	1.438	Down
255783	INAFM1	InaF motif containing 1	-0.614	1.718	Down
11133	KPTN	kaptin, actin binding protein	-1.61	11.17	Down
1.01E+08	NAPA-AS1	NAPA antisense RNA 1	-0.764	6.161	Down
8775	NAPA	NSF attachment protein alpha	-0.955	20.801	Down
2906	GRIN2D	glutamate ionotropic receptor NMDA type subunit 2D	-2.29	2.373	Down
83743	GRWD1	glutamate rich WD repeat containing 1	-1.375	11.067	Down
56848	SPHK2	sphingosine kinase 2	-0.777	3.929	Down
587	BCAT2	branched chain amino acid transaminase 2	-1.474	15.757	Down
1.05E+08	LOC105372432	uncharacterized LOC105372432	-1.283	3.474	Down
23645	PPP1R15A	protein phosphatase 1 regulatory subunit 15A	-1.925	4.917	Down
4924	NUCB1	nucleobindin 1	-0.622	2.197	Down
1.01E+08	NUCB1-AS1	NUCB1 antisense RNA 1	-0.589	1.534	Down
581	BAX	BCL2 associated X, apoptosis regulator	-1.057	5.444	Down
10856	RUVBL2	RuvB like AAA ATPase 2	-1.871	18.199	Down
6625	SNRNP70	small nuclear ribonucleoprotein U1 subunit 70	-1.717	7.25	Down
8541	PPFIA3	PTPRF interacting protein alpha 3	-1.545	4.818	Down
55011	PIH1D1	PIH1 domain containing 1	-0.538	1.838	Down
126133	ALDH16A1	aldehyde dehydrogenase 16 family member A1	-0.628	3.254	Down
83596	BCL2L12	BCL2 like 12	-0.562	2.433	Down
3276	PRMT1	protein arginine methyltransferase 1	-2.97	35.269	Down
160	AP2A1	adaptor related protein complex 2 subunit alpha 1	-0.408	3.952	Down
53635	PTOV1	PTOV1 extended AT-hook containing adaptor protein	-0.544	2.307	Down
11284	PNKP	polynucleotide kinase 3'-phosphatase	-0.501	1.966	Down
259307	IL4I1	interleukin 4 induced 1	-2.972	13.022	Down
23636	NUP62	nucleoporin 62	-1.724	23.688	Down

22809	ATF5	activating transcription factor 5	-1.844	6.965	Down
1.01E+08	MIR4751	microRNA 4751	-1.707	4.434	Down
3748	KCNC3	potassium voltage-gated channel subfamily C member 3	-1.839	2.477	Down
9476	NAPSA	napsin A aspartic peptidase	-3.09	3.716	Down
7376	NR1H2	nuclear receptor subfamily 1 group H member 2	-0.591	2.704	Down
5424	POLD1	DNA polymerase delta 1, catalytic subunit	-1.208	9.004	Down
284361	EMC10	ER membrane protein complex subunit 10	-0.489	2.638	Down
126119	JOSD2	Josephin domain containing 2	-0.911	3.923	Down
90353	CTU1	cytosolic thiouridylase subunit 1	-0.584	1.322	Down
147645	VSIG10L	V-set and immunoglobulin domain containing 10 like	-2.397	4.79	Down
4818	NKG7	natural killer cell granule protein 7	-1.26	1.827	Down
80110	ZNF614	zinc finger protein 614	-0.53	2.016	Down
5518	PPP2R1A	protein phosphatase 2 scaffold subunit Aalpha	-0.847	8.448	Down
29844	TFPT	TCF3 fusion partner	-0.579	1.854	Down
26121	PRPF31	pre-mRNA processing factor 31	-1.015	16.907	Down
4849	CNOT3	CCR4-NOT transcription complex subunit 3	-0.546	1.806	Down
22870	PPP6R1	protein phosphatase 6 regulatory subunit 1	-0.637	3.362	Down
23640	HSPBP1	HSPA (Hsp70) binding protein 1	-1.736	18.264	Down
84446	BRSK1	BR serine/threonine kinase 1	-2.752	8.325	Down
27338	UBE2S	ubiquitin conjugating enzyme E2 S	-2.256	20.616	Down
79763	ISOC2	isochorismatase domain containing 2	-1.81	7.455	Down
11338	U2AF2	U2 small nuclear RNA auxiliary factor 2	-0.925	9.311	Down
84878	ZBTB45	zinc finger and BTB domain containing 45	-0.378	1.337	Down
27243	CHMP2A	charged multivesicular body protein 2A	-1.164	7.225	Down
9040	UBE2M	ubiquitin conjugating enzyme E2 M	-1.317	7.264	Down
65996	CENPBD2P	CENPB DNA-binding domains containing 2, pseudogene	-0.429	1.551	Down
1.02E+08	LOC101929937	serine/arginine repetitive matrix protein 2-like	-1.633	1.474	Down
80023	NRSN2	neurensin 2	-1.835	7.086	Down

57761	TRIB3	tribbles pseudokinase 3	-0.959	2.294	Down
10616	RBCK1	RANBP2-type and C3HC4-type zinc finger containing 1	-0.733	4.259	Down
1457	CSNK2A1	casein kinase 2 alpha 1	-0.703	4.762	Down
140809	SRXN1	sulfiredoxin 1	-0.886	1.605	Down
83541	FAM110A	family with sequence similarity 110 member A	-0.371	1.613	Down
1.01E+08	FKBP1A-SDCBP2	FKBP1A-SDCBP2 readthrough (NMD candidate)	-1.289	10.671	Down
2280	FKBP1A	FKBP prolyl isomerase 1A	-1.332	12.014	Down
55968	NSFL1C	NSFL1 cofactor	-0.958	6.219	Down
6628	SNRPB	small nuclear ribonucleoprotein polypeptides B and B1	-1.485	11.298	Down
10528	NOP56	NOP56 ribonucleoprotein	-0.849	9.182	Down
1E+08	MIR1292	microRNA 1292	-0.827	1.884	Down
692201	SNORD86	small nucleolar RNA, C/D box 86	-1.784	2.463	Down
3420	IDH3B	isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit beta	-0.97	10.458	Down
56265	CPXM1	carboxypeptidase X, M14 family member 1	-1.462	2.078	Down
64949	MRPS26	mitochondrial ribosomal protein S26	-0.694	1.418	Down
60493	FASTKD5	FAST kinase domains 5	-0.731	6.467	Down
3704	ITPA	inosine triphosphatase	-1.061	5.613	Down
54976	C20orf27	chromosome 20 open reading frame 27	-0.909	4.755	Down
55317	AP5S1	adaptor related protein complex 5 subunit sigma 1	-0.317	1.387	Down
11237	RNF24	ring finger protein 24	-0.748	4.883	Down
5621	PRNP	prion protein	-0.86	2.81	Down
9770	RASSF2	Ras association domain family member 2	-1.283	4.54	Down
1.08E+08	LOC107985392	uncharacterized LOC107985392	-1.531	1.43	Down
5111	PCNA	proliferating cell nuclear antigen	-1.312	8.331	Down
1E+08	PCNA-AS1	PCNA antisense RNA 1	-1.303	6.546	Down
51605	TRMT6	tRNA methyltransferase 6 non-catalytic subunit	-1.055	10.092	Down
84515	MCM8	minichromosome maintenance 8 homologous recombination repair factor	-1.188	2.47	Down
54675	CRLS1	cardiolipin synthase 1	-0.816	3.692	Down

182	JAG1	jagged canonical Notch ligand 1	-1.906	4.211	Down
51575	ESF1	ESF1 nucleolar pre-rRNA processing protein homolog	-0.956	6.666	Down
6629	SNRPB2	small nuclear ribonucleoprotein polypeptide B2	-1.204	9.172	Down
27131	SNX5	sorting nexin 5	-0.325	1.515	Down
692086	SNORD17	small nucleolar RNA, C/D box 17	-2.045	3.698	Down
10621	POLR3F	RNA polymerase III subunit F	-0.678	3.12	Down
10741	RBBP9	RB binding protein 9, serine hydrolase	-0.902	5.217	Down
10483	SEC23B	SEC23 homolog B, COPII coat complex component	-1.248	8.74	Down
92675	DTD1	D-aminoacyl-tRNA deacylase 1	-1.167	6.461	Down
51126	NAA20	N-alpha-acetyltransferase 20, NatB catalytic subunit	-1.173	5.224	Down
29107	NXT1	nuclear transport factor 2 like export factor 1	-0.785	2.199	Down
1.05E+08	LINC02967	long intergenic non-protein coding RNA 2967	-2.535	1.897	Down
9837	GINS1	GINS complex subunit 1	-2.742	13.351	Down
140838	NANP	N-acetylneuraminic acid phosphatase	-1	4.367	Down
81502	HM13	histocompatibility minor 13	-0.531	1.877	Down
598	BCL2L1	BCL2 like 1	-3.535	19.019	Down
1.03E+08	ABALON	apoptotic BCL2L1-antisense long non-coding RNA	-3.258	18.065	Down
22974	TPX2	TPX2 microtubule nucleation factor	-1.69	4.896	Down
5326	PLAGL2	PLAG1 like zinc finger 2	-1.735	23.167	Down
23509	POFUT1	protein O-fucosyltransferase 1	-0.533	5.767	Down
9371	KIF3B	kinesin family member 3B	-1.025	10.255	Down
149951	COMMD7	COMM domain containing 7	-0.668	2.682	Down
22919	MAPRE1	microtubule associated protein RP/EB family member 1	-1.228	5.668	Down
51654	CDK5RAP1	CDK5 regulatory subunit associated protein 1	-0.598	2.731	Down
1869	E2F1	E2F transcription factor 1	-2.154	6.931	Down
128866	CHMP4B	charged multivesicular body protein 4B	-0.248	1.688	Down
8894	EIF2S2	eukaryotic translation initiation factor 2 subunit beta	-1.029	4.108	Down
191	AHCY	adenosylhomocysteinase	-1.033	3.9	Down

83658	DYNLRB1	dynein light chain roadblock-type 1	-0.478	1.588	Down
84557	MAP1LC3A	microtubule associated protein 1 light chain 3 alpha	-1.825	4.13	Down
128869	PIGU	phosphatidylinositol glycan anchor biosynthesis class U	-0.527	1.7	Down
58476	TP53INP2	tumor protein p53 inducible nuclear protein 2	-1.851	5.66	Down
55902	ACSS2	acyl-CoA synthetase short chain family member 2	-0.916	4.092	Down
2937	GSS	glutathione synthetase	-0.639	5.083	Down
26133	TRPC4AP	transient receptor potential cation channel subfamily C member 4 associated protein	-0.536	5.411	Down
3692	EIF6	eukaryotic translation initiation factor 6	-1.436	13.556	Down
55245	UQCC1	ubiquinol-cytochrome c reductase complex assembly factor 1	-0.42	2.403	Down
10137	RBM12	RNA binding motif protein 12	-1.101	6.338	Down
140823	ROMO1	reactive oxygen species modulator 1	-1.316	3.972	Down
9584	RBM39	RNA binding motif protein 39	-0.688	2.172	Down
25980	AAR2	AAR2 splicing factor	-0.556	2.113	Down
60436	TGIF2	TGFB induced factor homeobox 2	-1.262	11.305	Down
1.01E+08	TGIF2-RAB5IF	TGIF2-RAB5IF readthrough	-1.116	8.108	Down
55969	RAB5IF	RAB5 interacting factor	-1.119	7.119	Down
25939	SAMHD1	SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase 1	-0.339	1.442	Down
140699	MROH8	maestro heat like repeat family member 8	-0.573	1.951	Down
6185	RPN2	ribophorin II	-0.57	1.542	Down
56259	CTNNBL1	catenin beta like 1	-0.705	5.871	Down
79913	ACTR5	actin related protein 5	-0.49	1.835	Down
7150	TOP1	DNA topoisomerase I	-1.307	11.617	Down
1.02E+08	PLCG1-AS1	PLCG1 antisense RNA 1	-1.056	5.938	Down
6431	SRSF6	serine and arginine rich splicing factor 6	-1.481	6.995	Down
4605	MYBL2	MYB proto-oncogene like 2	-3.39	6.429	Down
79183	TTPAL	alpha tocopherol transfer protein like	-0.759	1.744	Down
60598	KCNK15	potassium two pore domain channel subfamily K member 15	-2.762	1.812	Down
7529	YWHAB	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta	-0.444	2.21	Down

10953	TOMM34	translocase of outer mitochondrial membrane 34	-1.441	17.099	Down
6385	SDC4	syndecan 4	-2.767	8.388	Down
116092	DNTTIP1	deoxynucleotidyltransferase terminal interacting protein 1	-0.665	2.684	Down
11065	UBE2C	ubiquitin conjugating enzyme E2 C	-2.202	5.246	Down
57727	NCOA5	nuclear receptor coactivator 5	-0.582	3.489	Down
958	CD40	CD40 molecule	-1.511	1.645	Down
8202	NCOA3	nuclear receptor coactivator 3	-1.555	6.158	Down
1434	CSE1L	chromosome segregation 1 like	-1.123	8.491	Down
55661	DDX27	DEAD-box helicase 27	-0.571	1.976	Down
57169	ZNFX1	zinc finger NFX1-type containing 1	-0.491	2.183	Down
5740	PTGIS	prostaglandin I2 synthase	-6.625	4.828	Down
1.05E+08	LOC105372651	uncharacterized LOC105372651	-3.149	1.399	Down
9334	B4GALT5	beta-1,4-galactosyltransferase 5	-1.726	10.674	Down
9825	SPATA2	spermatogenesis associated 2	-0.322	1.379	Down
387522	PEDS1-UBE2V1	PEDS1-UBE2V1 readthrough	-0.646	2.296	Down
7335	UBE2V1	ubiquitin conjugating enzyme E2 V1	-0.665	2.295	Down
5770	PTPN1	protein tyrosine phosphatase non-receptor type 1	-0.992	4.086	Down
140876	RIPOR3	RIPOR family member 3	-1.568	1.619	Down
8813	DPM1	dolichyl-phosphate mannosyltransferase subunit 1, catalytic	-0.633	2.839	Down
4773	NFATC2	nuclear factor of activated T cells 2	-0.877	5.234	Down
6790	AURKA	aurora kinase A	-1.661	10.144	Down
51507	RTF2	replication termination factor 2	-0.585	1.882	Down
51497	NELFCD	negative elongation factor complex member C/D	-0.712	8.895	Down
51012	PRELID3B	PRELI domain containing 3B	-0.864	6.796	Down
5688	PSMA7	proteasome 20S subunit alpha 7	-1.478	8.059	Down
11047	ADRM1	ADRM1 26S proteasome ubiquitin receptor	-1.513	16.993	Down
1.05E+08	LOC105372707		-1.597	13.882	Down
81928	CABLES2	Cdk5 and Abl enzyme substrate 2	-0.629	1.691	Down

28231	SLCO4A1	solute carrier organic anion transporter family member 4A1	-0.963	3.372	Down
1E+08	SLCO4A1-AS1	SLCO4A1 antisense RNA 1	-0.96	2.601	Down
11054	OGFR	opioid growth factor receptor	-0.763	4.908	Down
63910	SLC17A9	solute carrier family 17 member 9	-1.137	2.421	Down
1917	EEF1A2	eukaryotic translation elongation factor 1 alpha 2	-1.8	3.193	Down
85441	HELZ2	helicase with zinc finger 2	-1.359	2.763	Down
1.01E+08	RTEL1-TNFRSF6B	RTEL1-TNFRSF6B readthrough (NMD candidate)	-1.144	3.018	Down
51750	RTEL1	regulator of telomere elongation helicase 1	-1.22	3.812	Down
54963	UCKL1	uridine-cytidine kinase 1 like 1	-0.817	4.529	Down
140700	SAMD10	sterile alpha motif domain containing 10	-1.291	4.393	Down
1.03E+08	LOC102724159	periodic tryptophan protein 2 homolog	-1.381	14.011	Down
1.03E+08	LOC102724428	salt inducible kinase 1B (putative)	-1.656	6.248	Down
1.03E+08	LOC102724560	cystathionine beta-synthase like	-3.79	5.011	Down
1.03E+08	LOC102724594	U2 small nuclear RNA auxiliary factor 1 like 5	-1.049	16.683	Down
6782	HSPA13	heat shock protein family A (Hsp70) member 13	-0.743	2.532	Down
64092	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1	-1.101	3.595	Down
10950	BTG3	BTG anti-proliferation factor 3	-0.646	2.913	Down
246312	C21orf91-OT1	C21orf91 overlapping transcript 1	-0.789	1.34	Down
1.05E+08	LINC01684	long intergenic non-protein coding RNA 1684	-1.781	1.308	Down
54072	LINC00158	long intergenic non-protein coding RNA 158	-4.363	4.957	Down
114614	MIR155HG	MIR155 host gene	-6.415	13.664	Down
406947	MIR155	microRNA 155	-6.408	11.842	Down
54148	MRPL39	mitochondrial ribosomal protein L39	-1.071	13.443	Down
58494	JAM2	junctional adhesion molecule 2	-1.653	1.522	Down
522	ATP5PF	ATP synthase peripheral stalk subunit F6	-0.68	1.895	Down
29104	N6AMT1	N-6 adenine-specific DNA methyltransferase 1	-0.707	2.085	Down
10600	USP16	ubiquitin specific peptidase 16	-0.452	3.24	Down
10694	CCT8	chaperonin containing TCP1 subunit 8	-1.266	12.629	Down

7074	TIAM1	TIAM Rac1 associated GEF 1	-0.692	2.006	Down
6647	SOD1	superoxide dismutase 1	-0.752	3.176	Down
56246	MRAP	melanocortin 2 receptor accessory protein	-0.88	2.051	Down
9875	URB1	URB1 ribosome biogenesis homolog	-1.069	7.411	Down
1.1E+08	CFAP298-TCP10L	CFAP298-TCP10L readthrough	-0.846	5.917	Down
56683	CFAP298	cilia and flagella associated protein 298	-0.693	4.087	Down
94104	PAXBP1	PAX3 and PAX7 binding protein 1	-0.427	1.308	Down
2618	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	-1.522	14.809	Down
29980	DONSON	DNA replication fork stabilization factor DONSON	-1.151	7.323	Down
54102	CLIC6	chloride intracellular channel 6	-1.53	1.687	Down
861	RUNX1	RUNX family transcription factor 1	-0.675	3.496	Down
1E+08	CBR1-AS1	CBR1 antisense RNA 1	-0.805	3.193	Down
873	CBR1	carbonyl reductase 1	-0.728	3.714	Down
8208	CHAF1B	chromatin assembly factor 1 subunit B	-1.778	8.967	Down
2114	ETS2	ETS proto-oncogene 2, transcription factor	-0.738	4.253	Down
8624	PSMG1	proteasome assembly chaperone 1	-1.123	10.683	Down
3150	HMGN1	high mobility group nucleosome binding domain 1	-0.61	3.331	Down
4599	MX1	MX dynamin like GTPase 1	-1.916	4.242	Down
49854	ZBTB21	zinc finger and BTB domain containing 21	-0.9	10.73	Down
150142	ZNF295-AS1	ZNF295 antisense RNA 1	-3.024	2.088	Down
64699	TMPRSS3	transmembrane serine protease 3	-1.934	3.666	Down
54020	SLC37A1	solute carrier family 37 member 1	-1.743	9.481	Down
1.08E+08	LOC107987299	uncharacterized LOC107987299	-1.575	3.338	Down
1.02E+08	LOC101928212	uncharacterized LOC101928212	-1.396	1.311	Down
10785	WDR4	WD repeat domain 4	-2.172	24.512	Down
875	CBS	cystathionine beta-synthase	-3.72	5.234	Down
7307	U2AF1	U2 small nuclear RNA auxiliary factor 1	-1.043	16.587	Down

1.02E+08	LINC01679	long intergenic non-protein coding RNA 1679	-1.342	1.659	Down
150094	SIK1	salt inducible kinase 1	-1.758	5.716	Down
8568	RRP1	ribosomal RNA processing 1	-1.054	9.664	Down
56894	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3	-0.866	5.234	Down
5822	PWP2	PWP2 small subunit processome component	-1.387	11.46	Down
81543	LRRC3	leucine rich repeat containing 3	-1.093	3.486	Down
7327	UBE2G2	ubiquitin conjugating enzyme E2 G2	-0.655	5.656	Down
6612	SUMO3	small ubiquitin like modifier 3	-0.912	7.175	Down
84536	LINC01547	long intergenic non-protein coding RNA 1547	-1.279	2.196	Down
85395	SLX9	SLX9 ribosome biogenesis factor	-1.294	12.969	Down
6573	SLC19A1	solute carrier family 19 member 1	-1.187	5.438	Down
1.05E+08	LINC01694	long intergenic non-protein coding RNA 1694	-1.586	1.413	Down
529	ATP6V1E1	ATPase H+ transporting V1 subunit E1	-0.371	1.479	Down
637	BID	BH3 interacting domain death agonist	-0.611	2.301	Down
57553	MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3	-1.565	2.945	Down
55670	PEX26	peroxisomal biogenesis factor 26	-0.49	1.528	Down
11274	USP18	ubiquitin specific peptidase 18	-2.345	6.202	Down
1.05E+08	FAM247D	family with sequence similarity 247 member D	-2.442	2.685	Down
1.05E+08	FAM247C	family with sequence similarity 247 member C	-2.448	2.523	Down
2679	GGT3P	gamma-glutamyltransferase 3 pseudogene	-2.082	2.478	Down
25786	DGCR11	DiGeorge syndrome critical region gene 11	-1.889	3.323	Down
7353	UFD1	ubiquitin recognition factor in ER associated degradation 1	-0.726	2.905	Down
8318	CDC45	cell division cycle 45	-4.157	11.318	Down
10587	TXNRD2	thioredoxin reductase 2	-0.753	3.19	Down
1312	COMT	catechol-O-methyltransferase	-0.693	2.063	Down
1.01E+08	MIR4761	microRNA 4761	-0.888	2.098	Down
54487	DGCR8	DGCR8 microprocessor complex subunit	-0.942	11.143	Down
1.01E+08	MIR3618	microRNA 3618	-1.121	2.112	Down

1E+08	MIR1306	microRNA 1306	-1.028	2.561	Down
5902	RANBP1	RAN binding protein 1	-2.144	29.952	Down
373856	USP41	ubiquitin specific peptidase 41	-2.666	4.997	Down
1.05E+08	FAM247A	family with sequence similarity 247 member A	-2.558	2.79	Down
728441	GGT2P	gamma-glutamyltransferase 2, pseudogene	-2.252	2.568	Down
7332	UBE2L3	ubiquitin conjugating enzyme E2 L3	-0.895	7.504	Down
150223	YDJC	YdjC chitooligosaccharide deacetylase homolog	-0.625	2.322	Down
23753	SDF2L1	stromal cell derived factor 2 like 1	-1.641	10.869	Down
96610	BMS1P20	BMS1 pseudogene 20	-0.78	7.368	Down
23532	PRAME	PRAME nuclear receptor transcriptional regulator	-3.187	1.703	Down
91227	GGTLC2	gamma-glutamyltransferase light chain 2	-2.08	2.92	Down
400916	CHCHD10	coiled-coil-helix-coiled-coil-helix domain containing 10	-0.847	2.282	Down
6598	SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	-1.065	8.707	Down
284889	MIF-AS1	MIF antisense RNA 1	-1.143	2.323	Down
4282	MIF	macrophage migration inhibitory factor	-1.15	2.358	Down
83606	GUCD1	guanylyl cyclase domain containing 1	-0.443	2.229	Down
6634	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide	-0.584	5.638	Down
2678	GGT1	gamma-glutamyltransferase 1	-2.108	4.836	Down
7152	TOP1P2	DNA topoisomerase I pseudogene 2	-1.872	2.349	Down
85379	KIAA1671	KIAA1671	-0.847	1.613	Down
57168	ASPHD2	aspartate beta-hydroxylase domain containing 2	-1.912	33.816	Down
402055	SRRD	SRR1 domain containing	-0.332	1.385	Down
23760	PITPNB	phosphatidylinositol transfer protein beta	-1.104	12.714	Down
7494	XBP1	X-box binding protein 1	-1.007	3.506	Down
84133	ZNRF3	zinc and ring finger 3	-0.835	2.245	Down
25807	RHBDD3	rhomboid domain containing 3	-0.788	1.645	Down
2130	EWSR1	EWS RNA binding protein 1	-1.643	51.52	Down
162	AP1B1	adaptor related protein complex 1 subunit beta 1	-1.261	17.654	Down

4744	NEFH	neurofilament heavy chain	-2.244	2.808	Down
8563	THOC5	THO complex subunit 5	-0.706	7.651	Down
84164	ASCC2	activating signal cointegrator 1 complex subunit 2	-0.407	1.305	Down
1.11E+08	LIF-AS1	LIF antisense RNA 1	-6.846	5.391	Down
3976	LIF	LIF interleukin 6 family cytokine	-8.177	22.204	Down
91370	LIF-AS2	LIF antisense RNA 2	-7.911	21.64	Down
5008	OSM	oncostatin M	-4.837	9.201	Down
23481	PES1	pescadillo ribosomal biogenesis factor 1	-1.584	21.741	Down
6525	SMTN	smoothelin	-1.429	2.68	Down
4733	DRG1	developmentally regulated GTP binding protein 1	-0.916	5.211	Down
23761	PISD	phosphatidylserine decarboxylase	-0.692	6.776	Down
51493	RTCB	RNA 2',3'-cyclic phosphate and 5'-OH ligase	-0.964	7.833	Down
3162	HMOX1	heme oxygenase 1	-3.361	12.624	Down
4174	MCM5	minichromosome maintenance complex component 5	-1.481	19.069	Down
80830	APOL6	apolipoprotein L6	-1.747	10.878	Down
80833	APOL3	apolipoprotein L3	-0.865	6.12	Down
80832	APOL4	apolipoprotein L4	-1.638	2.435	Down
23780	APOL2	apolipoprotein L2	-1.961	10.937	Down
8542	APOL1	apolipoprotein L1	-2.537	4.875	Down
1.12E+08	LOC112268296		-2.58	5.577	Down
80020	FOXRED2	FAD dependent oxidoreductase domain containing 2	-0.821	2.209	Down
11020	IFT27	intraflagellar transport 27	-0.498	1.758	Down
7263	TST	thiosulfate sulfurtransferase	-1.953	4.808	Down
79734	KCTD17	potassium channel tetramerization domain containing 17	-0.961	2.863	Down
164656	TMPRSS6	transmembrane serine protease 6	-2.542	3.575	Down
3560	IL2RB	interleukin 2 receptor subunit beta	-1.582	5.423	Down
5880	RAC2	Rac family small GTPase 2	-0.704	6.379	Down
11135	CDC42EP1	CDC42 effector protein 1	-1.463	1.301	Down

26088	GGA1	golgi associated, gamma adaptin ear containing, ARF binding protein 1	-0.607	2.465	Down
57026	PDXP	pyridoxal phosphatase	-0.885	5.287	Down
3956	LGALS1	galectin 1	-1.153	1.805	Down
79159	NOL12	nucleolar protein 12	-1.041	8.087	Down
23464	GCAT	glycine C-acetyltransferase	-1.208	2.033	Down
5435	POLR2F	RNA polymerase II, I and III subunit F	-0.866	2.325	Down
9463	PICK1	protein interacting with PRKCA 1	-0.83	4.016	Down
23764	MAFF	MAF bZIP transcription factor F	-1.841	4.538	Down
1.03E+08	TPTEP2-CSNK1E	TPTEP2-CSNK1E readthrough	-0.382	1.977	Down
1454	CSNK1E	casein kinase 1 epsilon	-0.417	2.191	Down
11144	DMC1	DNA meiotic recombinase 1	-2.134	1.849	Down
56993	TOMM22	translocase of outer mitochondrial membrane 22	-1.664	7.203	Down
23466	CBX6	chromobox 6	-0.885	6.021	Down
9582	APOBEC3B	apolipoprotein B mRNA editing enzyme catalytic subunit 3B	-1.508	2.968	Down
27350	APOBEC3C	apolipoprotein B mRNA editing enzyme catalytic subunit 3C	-1.25	11.687	Down
200316	APOBEC3F	apolipoprotein B mRNA editing enzyme catalytic subunit 3F	-1.073	5.051	Down
140564	APOBEC3D	apolipoprotein B mRNA editing enzyme catalytic subunit 3D	-1.274	2.946	Down
60489	APOBEC3G	apolipoprotein B mRNA editing enzyme catalytic subunit 3G	-1.5	3.322	Down
1.02E+08	LOC101927202	uncharacterized LOC101927202	-2.439	1.97	Down
91582	RPS19BP1	ribosomal protein S19 binding protein 1	-0.58	1.776	Down
113828	FAM83F	family with sequence similarity 83 member F	-3.79	7.743	Down
158	ADSL	adenylosuccinate lyase	-0.856	2.354	Down
10478	SLC25A17	solute carrier family 25 member 17	-0.956	3.281	Down
9978	RBX1	ring-box 1	-1.136	4.228	Down
1.07E+08	SNORD140	small nucleolar RNA, C/D box 140	-2.028	8.723	Down
83746	L3MBTL2	L3MBTL histone methyl-lysine binding protein 2	-0.439	3.694	Down
1.01E+08	L3MBTL2-AS1	L3MBTL2 antisense RNA 1	-0.455	1.705	Down
5905	RANGAP1	Ran GTPase activating protein 1	-0.835	3.078	Down

23264	ZC3H7B	zinc finger CCCH-type containing 7B	-0.727	1.699	Down
10766	TOB2	transducer of ERBB2, 2	-0.936	4.515	Down
84844	PHF5A	PHD finger protein 5A	-0.88	3.512	Down
50	ACO2	aconitase 2	-1.006	17.74	Down
171568	POLR3H	RNA polymerase III subunit H	-0.962	8.975	Down
27351	DESI1	desumoylating isopeptidase 1	-2.224	64.662	Down
2547	XRCC6	X-ray repair cross complementing 6	-1.168	8.626	Down
1.08E+08	LOC107985567	protein LLP homolog	-0.616	1.41	Down
6721	SREBF2	sterol regulatory element binding transcription factor 2	-0.961	5.479	Down
440829	SHISA8	shisa family member 8	-0.828	4.148	Down
55964	SEPTIN3	septin 3	-1.678	1.792	Down
4668	NAGA	alpha-N-acetylgalactosaminidase	-0.687	8.595	Down
150368	PHETA2	PH domain containing endocytic trafficking adaptor 2	-0.923	1.802	Down
4700	NDUFA6	NADH:ubiquinone oxidoreductase subunit A6	-0.882	3.111	Down
388906	OGFRP1	opioid growth factor receptor pseudogene 1	-1.555	4.072	Down
27341	RRP7A	ribosomal RNA processing 7 homolog A	-1.038	3.709	Down
91695	RRP7BP	ribosomal RNA processing 7 homolog B, pseudogene	-1.108	5.229	Down
1727	CYB5R3	cytochrome b5 reductase 3	-0.511	2.997	Down
638	BIK	BCL2 interacting killer	-1.409	3.817	Down
27349	MCAT	malonyl-CoA-acyl carrier protein transacylase	-0.758	3.701	Down
23170	TTLL12	tubulin tyrosine ligase like 12	-1.3	5.804	Down
25813	SAMM50	SAMM50 sorting and assembly machinery component	-0.813	3.747	Down
29780	PARVB	parvin beta	-1.058	2.974	Down
25814	ATXN10	ataxin 10	-0.569	2.232	Down
150381	PRR34-AS1	PRR34 antisense RNA 1	-0.932	2.203	Down
55020	TTC38	tetratricopeptide repeat domain 38	-1.194	10.147	Down
79174	CRELD2	cysteine rich with EGF like domains 2	-1.914	16.322	Down
1.08E+08	LOC107985553		-2.043	5.278	Down

415116	PIM3	Pim-3 proto-oncogene, serine/threonine kinase	-1.793	6.654	Down
1.02E+08	MIR6821	microRNA 6821	-2.598	3.526	Down
56666	PANX2	pannexin 2	-3.874	14.558	Down
5600	MAPK11	mitogen-activated protein kinase 11	-2.143	4.039	Down
29781	NCAPH2	non-SMC condensin II complex subunit H2	-0.757	3.338	Down
9997	SCO2	synthesis of cytochrome C oxidase 2	-2.162	6.469	Down
1890	TYMP	thymidine phosphorylase	-3.078	3.382	Down
440836	ODF3B	outer dense fiber of sperm tails 3B	-2.287	3.32	Down
1.03E+08	LOC102724608	uncharacterized LOC102724608	-2.541	2.176	Down
1.05E+08	KLHDC7B-DT	KLHDC7B divergent transcript	-2.943	3.586	Down
113730	KLHDC7B	kelch domain containing 7B	-1.117	3.646	Down
1.03E+08	LOC102724563	transcription factor E2F6-like	-0.81	2.428	Down
1.03E+08	LOC102724197	inactive glutathione hydrolase 2	-2.116	2.017	Down
1.05E+08	LOC105379548	uncharacterized LOC105379548	-3.099	2.578	Down
1.03E+08	LOC102724823	replaced by ID 2679	-2.018	1.499	Down
1.03E+08	LOC102724865	replaced by ID 100420178	-0.691	1.68	Down
8225	GTPBP6	GTP binding protein 6 (putative)	-0.636	3.338	Down
80161	ASMTL-AS1	ASMTL antisense RNA 1	-0.739	1.994	Down
8623	ASMTL	acetylserotonin O-methyltransferase like	-1.06	5.2	Down
207063	DHRSX	dehydrogenase/reductase X-linked	-0.791	2.177	Down
412	STS	steroid sulfatase	-1.235	3.552	Down
3052	HCCS	holocytochrome c synthase	-1.199	11.539	Down
5931	RBBP7	RB binding protein 7, chromatin remodeling factor	-0.603	2.604	Down
4810	NHS	NHS actin remodeling regulator	-4.106	4.487	Down
10389	SCML2	Scm polycomb group protein like 2	-1.942	12.033	Down
5160	PDHA1	pyruvate dehydrogenase E1 subunit alpha 1	-0.816	7.627	Down
389840	MAP3K15	mitogen-activated protein kinase kinase kinase 15	-0.555	1.703	Down
6611	SMS	spermine synthase	-1.385	12.625	Down

10549	PRDX4	peroxiredoxin 4	-1.681	5.682	Down
23597	ACOT9	acyl-CoA thioesterase 9	-0.968	4.433	Down
79135	APOO	apolipoprotein O	-1.072	3.446	Down
5422	POLA1	DNA polymerase alpha 1, catalytic subunit	-1.152	5.976	Down
80231	TASL	TLR adaptor interacting with endolysosomal SLC15A4	-1.215	2.135	Down
2710	GK	glycerol kinase	-1.183	3.071	Down
6990	DYNLT3	dynein light chain Tctex-type 3	-0.551	3.406	Down
54880	BCOR	BCL6 corepressor	-0.823	1.463	Down
1.05E+08	LOC105373181		-0.815	1.98	Down
8573	CASK	calcium/calmodulin dependent serine protein kinase	-0.441	2.005	Down
2857	GPR34	G protein-coupled receptor 34	-1.752	1.924	Down
27197	GPR82	G protein-coupled receptor 82	-2.369	2.34	Down
4128	MAOA	monoamine oxidase A	-3.767	4.892	Down
8241	RBM10	RNA binding motif protein 10	-0.396	2.126	Down
7317	UBA1	ubiquitin like modifier activating enzyme 1	-0.72	2.549	Down
2002	ELK1	ETS transcription factor ELK1	-1.169	18.176	Down
92745	SLC38A5	solute carrier family 38 member 5	-3.038	74.498	Down
24140	FTSJ1	FtsJ RNA 2'-O-methyltransferase 1	-0.863	4.24	Down
10682	EBP	EBP cholestenol delta-isomerase	-1.492	13.836	Down
5935	RBM3	RNA binding motif protein 3	-1.371	8.59	Down
6839	SUV39H1	SUV39H1 histone lysine methyltransferase	-0.418	1.487	Down
10245	TIMM17B	translocase of inner mitochondrial membrane 17B	-0.708	3.585	Down
11040	PIM2	Pim-2 proto-oncogene, serine/threonine kinase	-1.545	3.567	Down
55593	OTUD5	OTU deubiquitinase 5	-0.906	17.001	Down
7030	TFE3	transcription factor binding to IGHM enhancer 3	-1.068	4.983	Down
27238	GPKOW	G-patch domain and KOW motifs	-0.446	2.349	Down
79917	MAGIX	MAGI family member, X-linked	-1.232	1.639	Down
6855	SYP	synaptophysin	-3.864	13.461	Down

28952	CCDC22	coiled-coil domain containing 22	-0.693	4.785	Down
50943	FOXP3	forkhead box P3	-1.03	1.542	Down
9500	MAGED1	MAGE family member D1	-0.612	2.79	Down
1.03E+08	KANTR	KANTR integral membrane protein	-1.743	9.134	Down
3028	HSD17B10	hydroxysteroid 17-beta dehydrogenase 10	-1.517	15.714	Down
10075	HUWE1	HECT, UBA and WWE domain containing E3 ubiquitin protein ligase 1	-2.032	10.675	Down
23133	PHF8	PHD finger protein 8	-0.38	2.032	Down
29978	UBQLN2	ubiquilin 2	-0.661	5.9	Down
81887	LAS1L	LAS1 like ribosome biogenesis factor	-0.847	6.337	Down
1947	EFNB1	ephrin B1	-0.536	2.042	Down
27112	NALF2	NALCN channel auxiliary factor 2	-1.747	1.407	Down
29934	SNX12	sorting nexin 12	-0.624	2.641	Down
3561	IL2RG	interleukin 2 receptor subunit gamma	-0.806	3.144	Down
4841	NONO	non-POU domain containing octamer binding	-0.392	1.391	Down
55869	HDAC8	histone deacetylase 8	-1.097	7.19	Down
5255	PHKA1	phosphorylase kinase regulatory subunit alpha 1	-4.256	12.46	Down
51260	PBDC1	polysaccharide biosynthesis domain containing 1	-0.78	6.033	Down
84061	MAGT1	magnesium transporter 1	-0.597	3.043	Down
1349	COX7B	cytochrome c oxidase subunit 7B	-0.811	2.058	Down
441531	PGAM4	phosphoglycerate mutase family member 4	-2.252	12.414	Down
5230	PGK1	phosphoglycerate kinase 1	-0.89	1.442	Down
1.08E+08	LOC107985690	replaced by ID 84636	-0.918	2.418	Down
84636	GPR174	G protein-coupled receptor 174	-1.105	3.644	Down
139324	HDX	highly divergent homeobox	-3.233	4.37	Down
1478	CSTF2	cleavage stimulation factor subunit 2	-1.725	33.474	Down
1678	TIMM8A	translocase of inner mitochondrial membrane 8A	-0.817	5.084	Down
2717	GLA	galactosidase alpha	-0.869	2.886	Down
3188	HNRNPH2	heterogeneous nuclear ribonucleoprotein H2	-0.47	1.951	Down

64860	ARMCX5	armadillo repeat containing X-linked 5	-0.433	2.01	Down
9643	MORF4L2	mortality factor 4 like 2	-0.451	1.414	Down
55916	NXT2	nuclear transport factor 2 like export factor 2	-0.798	2.181	Down
2182	ACSL4	acyl-CoA synthetase long chain family member 4	-0.727	3.52	Down
1.05E+08	LOC105373311	uncharacterized LOC105373311	-0.77	1.871	Down
79868	ALG13	ALG13 UDP-N-acetylglucosaminyltransferase subunit	-0.718	3.039	Down
10857	PGRMC1	progesterone receptor membrane component 1	-0.61	2.368	Down
203427	SLC25A43	solute carrier family 25 member 43	-1.195	5.584	Down
1E+08	SLC25A5-AS1	SLC25A5 antisense RNA 1	-1.105	6.05	Down
292	SLC25A5	solute carrier family 25 member 5	-1.14	4.948	Down
63932	STEEP1	STING1 ER exit protein 1	-0.339	1.308	Down
7319	UBE2A	ubiquitin conjugating enzyme E2 A	-1.042	12.783	Down
55922	NKRF	NFKB repressing factor	-0.598	2.484	Down
4694	NDUFA1	NADH:ubiquinone oxidoreductase subunit A1	-0.653	1.445	Down
28985	MCTS1	MCTS1 re-initiation and release factor	-0.806	3.236	Down
29071	C1GALT1C1	C1GALT1 specific chaperone 1	-1.078	3.976	Down
4068	SH2D1A	SH2 domain containing 1A	-0.729	1.767	Down
4952	OCRL	OCRL inositol polyphosphate-5-phosphatase	-0.874	2.456	Down
10813	UTP14A	UTP14A small subunit processome component	-0.574	2.372	Down
63035	BCORL1	BCL6 corepressor like 1	-1.078	7.83	Down
9131	AIFM1	apoptosis inducing factor mitochondria associated 1	-0.715	4.722	Down
9016	SLC25A14	solute carrier family 25 member 14	-0.643	1.954	Down
57826	RAP2C	RAP2C, member of RAS oncogene family	-0.861	5.99	Down
84295	PHF6	PHD finger protein 6	-0.677	2.561	Down
3251	HPRT1	hypoxanthine phosphoribosyltransferase 1	-0.979	3.273	Down
56180	MOSPD1	motile sperm domain containing 1	-0.597	1.784	Down
8933	RTL8C	retrotransposon Gag like 8C	-0.594	4.703	Down
79649	MAP7D3	MAP7 domain containing 3	-0.806	1.704	Down

1E+08	LINC00892	long intergenic non-protein coding RNA 892	-3.455	19.393	Down
959	CD40LG	CD40 ligand	-3.096	18.888	Down
27316	RBMX	RNA binding motif protein X-linked	-0.926	16.104	Down
389898	UBE2NL	ubiquitin conjugating enzyme E2 N like (gene/pseudogene)	-1.784	3.04	Down
2334	AFF2	ALF transcription elongation factor 2	-1.645	4.346	Down
541578	EOLA2	endothelium and lymphocyte associated ASCH domain 2	-0.487	1.466	Down
1.02E+08	HSFX4	heat shock transcription factor family, X-linked member 4	-1.188	2.015	Down
10046	MAMLD1	mastermind like domain containing 1	-2.66	12.442	Down
4534	MTM1	myotubularin 1	-0.385	2.026	Down
8776	MTMR1	myotubularin related protein 1	-0.668	7.922	Down
3149	HMGB3	high mobility group box 3	-1.895	10.698	Down
50814	NSDHL	NAD(P) dependent steroid dehydrogenase-like	-1.252	8.116	Down
84968	PNMA6A	PNMA family member 6A	-1.385	1.309	Down
139735	ZFP92	ZFP92 zinc finger protein	-1.383	4.881	Down
55559	HAUS7	HAUS augmin like complex subunit 7	-0.95	9.255	Down
3421	IDH3G	isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit gamma	-0.637	3.097	Down
8260	NAA10	N-alpha-acetyltransferase 10, NatA catalytic subunit	-1.594	15.824	Down
3054	HCFC1	host cell factor C1	-1.065	3.598	Down
3654	IRAK1	interleukin 1 receptor associated kinase 1	-1.164	7.41	Down
2010	EMD	emerin	-0.522	2.163	Down
2664	GDI1	GDP dissociation inhibitor 1	-0.577	6.147	Down
9130	FAM50A	family with sequence similarity 50 member A	-0.548	1.63	Down
8270	LAGE3	L antigen family member 3	-0.847	2.53	Down
2539	G6PD	glucose-6-phosphate dehydrogenase	-1.531	11.881	Down
8517	IKBKG	inhibitor of nuclear factor kappa B kinase regulatory subunit gamma	-0.675	5.433	Down
1736	DKC1	dyskerin pseudouridine synthase 1	-1.185	7.431	Down
65991	FUNDC2	FUN14 domain containing 2	-0.846	2.056	Down
79184	BRCC3	BRCA1/BRCA2-containing complex subunit 3	-0.423	1.718	Down

7411	VBP1	VHL binding protein 1	-1.248	7.385	Down
116442	RAB39B	RAB39B, member RAS oncogene family	-0.479	1.895	Down
1.01E+08	LOC100996442	WAS protein family homolog 2-like	1.612	2.247	Up
1.12E+08	LOC112268260	uncharacterized LOC112268260	1.673	1.419	Up
1.13E+08	MIR12136	microRNA 12136	1.346	1.605	Up
643837	LINC01128	long intergenic non-protein coding RNA 1128	1.3	2.885	Up
80772	CPTP	ceramide-1-phosphate transfer protein	0.492	3.266	Up
142678	MIB2	MIB E3 ubiquitin protein ligase 2	1.001	3.895	Up
728661	SLC35E2B	solute carrier family 35 member E2B	1.185	8.862	Up
9906	SLC35E2A	solute carrier family 35 member E2A	1.382	9.145	Up
1.01E+08	PRKCZ-AS1	PRKCZ antisense RNA 1	1.296	1.623	Up
6497	SKI	SKI proto-oncogene	1.605	5.097	Up
9651	PLCH2	phospholipase C eta 2	1.462	2.302	Up
1953	MEGF6	multiple EGF like domains 6	3.125	17.963	Up
127262	TPRG1L	tumor protein p63 regulated 1 like	1.215	6.366	Up
57212	TP73-AS1	TP73 antisense RNA 1	0.648	2.108	Up
55966	AJAP1	adherens junctions associated protein 1	4.592	4.253	Up
6146	RPL22	ribosomal protein L22	0.745	1.421	Up
83715	ESPN	espin	0.836	2.961	Up
3104	ZBTB48	zinc finger and BTB domain containing 48	0.748	3.776	Up
9903	KLHL21	kelch like family member 21	0.956	5.278	Up
9341	VAMP3	vesicle associated membrane protein 3	0.468	1.642	Up
473	RERE	arginine-glutamic acid dipeptide repeats	0.676	1.824	Up
9563	H6PD	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	0.73	2.284	Up
5293	PIK3CD	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	0.378	6.074	Up
22883	CLSTN1	calsyntenin 1	0.638	3.068	Up
10747	MASP2	MBL associated serine protease 2	1.803	1.841	Up
57085	AGTRAP	angiotensin II receptor associated protein	0.546	1.366	Up
284498	C1orf167	chromosome 1 open reading frame 167	0.633	1.903	Up
1185	CLCN6	chloride voltage-gated channel 6	0.848	1.588	Up
55092	TMEM51	transmembrane protein 51	2.369	3.133	Up
79363	CPLANE2	ciliogenesis and planar polarity effector complex subunit 2	1.05	4.672	Up
54455	FBXO42	F-box protein 42	0.591	7.279	Up
1.08E+08	LINC01772	long intergenic non-protein coding RNA 1772	2.062	2.017	Up
114819	CROCCP3	CROCC pseudogene 3	1.828	2.423	Up
55672	NBPF1	NBPF member 1	2.017	6.526	Up
84809	CROCCP2	CROCC pseudogene 2	1.432	1.363	Up
11209	MST1P2	macrophage stimulating 1 pseudogene 2	2.613	1.405	Up
23569	PADI4	peptidyl arginine deiminase 4	2.09	1.768	Up
55160	ARHGEF10L	Rho guanine nucleotide exchange factor 10 like	2.545	2.267	Up
8574	AKR7A2	aldo-keto reductase family 7 member A2	0.781	1.889	Up
54896	SLC66A1	solute carrier family 66 member 1	0.774	1.832	Up
23252	OTUD3	OTU deubiquitinase 3	1.114	1.654	Up

55450	CAMK2N1	calcium/calmodulin dependent protein kinase II inhibitor 1	0.87	2.421	Up
65018	PINK1	PTEN induced kinase 1	1.238	8.529	Up
1.12E+08	LOC112268222		0.581	4.659	Up
50809	HP1BP3	heterochromatin protein 1 binding protein 3	0.492	2.361	Up
84224	NBPF3	NBPF member 3	0.772	2.666	Up
714	C1QC	complement C1q C chain	2.74	2.867	Up
80818	ZNF436	zinc finger protein 436	1.013	9.338	Up
148898	ZNF436-AS1	ZNF436 antisense RNA 1	2.778	2.369	Up
6920	TCEA3	transcription elongation factor A3	1.247	4.823	Up
3399	ID3	inhibitor of DNA binding 3	1.134	1.627	Up
259283	MDS2	myelodysplastic syndrome 2 translocation associated	2.427	5.517	Up
6135	RPL11	ribosomal protein L11	0.952	1.655	Up
3155	HMGCL	3-hydroxy-3-methylglutaryl-CoA lyase	0.957	4.697	Up
2517	FUCA1	alpha-L-fucosidase 1	0.842	4.547	Up
57185	NIPAL3	NIPA like domain containing 3	1.07	12.054	Up
1.01E+08	RCAN3AS	RCAN3 antisense RNA	2.649	6.061	Up
11123	RCAN3	RCAN family member 3	1.739	27.313	Up
1.01E+08	NCMAP-DT	NCMAP divergent transcript	2.167	32.194	Up
400746	NCMAP	non-compact myelin associated protein	4.134	2.903	Up
25949	SYF2	SYF2 pre-mRNA splicing factor	0.747	3.21	Up
26119	LDLRAP1	low density lipoprotein receptor adaptor protein 1	3.073	30.517	Up
57134	MAN1C1	mannosidase alpha class 1C member 1	0.44	2.076	Up
5051	PAFAH2	platelet activating factor acetylhydrolase 2	1.005	1.801	Up
149420	PDIK1L	PDLIM1 interacting kinase 1 like	0.826	5.281	Up
91544	UBXN11	UBX domain protein 11	2.404	15.449	Up
1043	CD52	CD52 molecule	2.67	16.457	Up
63906	GPATCH3	G-patch domain containing 3	0.39	1.944	Up
126695	KDF1	keratinocyte differentiation factor 1	0.903	2.34	Up
23038	WDTC1	WD and tetratricopeptide repeats 1	0.648	3.57	Up
84958	SYTL1	synaptotagmin like 1	0.92	5.048	Up
10163	WASF2	WASP family member 2	0.41	2.029	Up
1.05E+08	LOC105376892	uncharacterized LOC105376892	4.207	2.611	Up
27245	AHDC1	AT-hook DNA binding motif containing 1	0.921	3.616	Up
2268	FGR	FGR proto-oncogene, Src family tyrosine kinase	3.582	7.87	Up
199870	FAM76A	family with sequence similarity 76 member A	0.625	4.005	Up
9473	THEMIS2	thymocyte selection associated family member 2	1.411	3.767	Up
55113	XKR8	XK related 8	0.361	1.56	Up
85028	SNHG12	small nucleolar RNA host gene 12	2.678	12.628	Up
115273	RAB42	RAB42, member RAS oncogene family	5.478	4.331	Up
2035	EPB41	erythrocyte membrane protein band 4.1	1.398	9.736	Up
399474	TMEM200B	transmembrane protein 200B	1.473	8.796	Up
1E+08	MATN1-AS1	MATN1 antisense RNA 1	1.767	4.509	Up
7805	LAPTM5	lysosomal protein transmembrane 5	1.912	14.276	Up
1.05E+08	LOC105378620	uncharacterized LOC105378620	2.23	4.561	Up
9698	PUM1	pumilio RNA binding family member 1	0.602	2.063	Up
2170	FABP3	fatty acid binding protein 3	1.565	1.597	Up

347735	SERINC2	serine incorporator 2	3.092	2.578	Up
90853	SPOCD1	SPOC domain containing 1	4.655	3.569	Up
81629	TSSK3	testis specific serine kinase 3	1.698	3.58	Up
64766	S100PBP	S100P binding protein	0.716	3.076	Up
113451	AZIN2	antizyme inhibitor 2	2.288	6.398	Up
149076	ZNF362	zinc finger protein 362	1.515	12.713	Up
1912	PHC2	polyhomeotic homolog 2	0.474	1.891	Up
1.01E+08	MIR3605	microRNA 3605	1.066	2.382	Up
653160	GPR199P	G protein-coupled receptor 199, pseudogene	2.327	5.039	Up
79830	ZMYM1	zinc finger MYM-type containing 1	1.844	13.961	Up
79932	KIAA0319L	KIAA0319 like	0.84	3.783	Up
192670	AGO4	argonaute RISC component 4	1.945	10.127	Up
26523	AGO1	argonaute RISC component 1	0.505	1.945	Up
1296	COL8A2	collagen type VIII alpha 2 chain	4.995	5.469	Up
55194	EVA1B	eva-1 homolog B	1.37	5.402	Up
1441	CSF3R	colony stimulating factor 3 receptor	4.281	5.79	Up
728431	ZC3H12A-DT	ZC3H12A divergent transcript	1.007	1.775	Up
3633	INPP5B	inositol polyphosphate-5-phosphatase B	0.558	2.55	Up
728448	PPIEL	peptidylprolyl isomerase E like pseudogene	1.91	1.647	Up
8761	PABPC4	poly(A) binding protein cytoplasmic 4	0.626	2.257	Up
1.02E+08	PABPC4-AS1	PABPC4 antisense RNA 1	0.621	1.974	Up
51440	HPCAL4	hippocalcin like 4	3.091	39.906	Up
4610	MYCL	MYCL proto-oncogene, bHLH transcription factor	3.757	4.554	Up
6018	RLF	RLF zinc finger	0.531	1.996	Up
64744	SMAP2	small ArfGAP2	0.387	2.671	Up
22887	FOXJ3	forkhead box J3	0.419	2.161	Up
79078	C1orf50	chromosome 1 open reading frame 50	0.404	1.947	Up
114625	ERMAP	erythroblast membrane associated protein (Scianna blood group)	0.817	2.531	Up
51058	ZNF691	zinc finger protein 691	0.837	3.154	Up
23334	SZT2	SZT2 subunit of KICSTOR complex	0.998	1.814	Up
1.01E+08	SZT2-AS1	SZT2 antisense RNA 1	1.079	1.417	Up
81888	HYI	hydroxypyruvate isomerase (putative)	0.868	2.242	Up
6487	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	0.669	4.171	Up
1.05E+08	LINC02918	long intergenic non-protein coding RNA 2918	2.817	1.674	Up
55182	RNF220	ring finger protein 220	0.257	1.502	Up
26811	SNORD55	small nucleolar RNA, C/D box 55	1.171	1.361	Up
1263	PLK3	polo like kinase 3	0.78	2.885	Up
343521	DYNLT4	dynein light chain Tctex-type 4	1.428	2.255	Up
57643	ZSWIM5	zinc finger SWIM-type containing 5	1.207	1.951	Up
9813	EFCAB14	EF-hand calcium binding domain 14	0.392	1.829	Up
6886	TAL1	TAL bHLH transcription factor 1, erythroid differentiation factor	1.444	2.039	Up
51727	CMPK1	cytidine/uridine monophosphate kinase 1	0.726	3.123	Up
84793	FOXD2-AS1	FOXD2 adjacent opposite strand RNA 1	1.506	7.068	Up
2306	FOXD2	forkhead box D2	1.082	1.519	Up
54558	SPATA6	spermatogenesis associated 6	0.926	1.393	Up
79656	BEND5	BEN domain containing 5	1.691	4.871	Up

1031	CDKN2C	cyclin dependent kinase inhibitor 2C	0.929	1.857	Up
9372	ZFYVE9	zinc finger FYVE-type containing 9	0.991	4.089	Up
23318	TUT4	terminal uridylyl transferase 4	0.973	7.648	Up
348378	SHISAL2A	shisa like 2A	2.701	27.301	Up
79699	ZYG11B	zyg-11 family member B, cell cycle regulator	0.628	2.723	Up
1.08E+08	LINC02812	long intergenic non-protein coding RNA 2812	2.816	3.556	Up
54432	YIPF1	Yip1 domain family member 1	0.664	2.282	Up
606495	CYB5RL	cytochrome b5 reductase like	0.76	2.203	Up
8613	PLPP3	phospholipid phosphatase 3	8.844	9.753	Up
1600	DAB1	DAB adaptor protein 1	2.314	2.604	Up
3725	JUN	Jun proto-oncogene, AP-1 transcription factor subunit	1.618	6.61	Up
1E+08	LINC01135	long intergenic non-protein coding RNA 1135	3.933	5.804	Up
1.02E+08	LOC101926907	uncharacterized LOC101926907	2.783	4.161	Up
4774	NFIA	nuclear factor I A	2.352	18.264	Up
10207	PATJ	PATJ crumbs cell polarity complex component	0.66	1.326	Up
84938	ATG4C	autophagy related 4C cysteine peptidase	0.69	1.99	Up
57685	CACHD1	cache domain containing 1	2.125	2.011	Up
3716	JAK1	Janus kinase 1	0.628	2.546	Up
5142	PDE4B	phosphodiesterase 4B	0.488	1.492	Up
79819	DNAI4	dynein axonemal intermediate chain 4	2.322	4.072	Up
57554	LRRC7	leucine rich repeat containing 7	1.753	1.742	Up
256435	ST6GALNAC3	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	2.313	2.996	Up
26289	AK5	adenylate kinase 5	2.143	5.281	Up
374986	MIGA1	mitoguardin 1	1.211	13.162	Up
5567	PRKACB	protein kinase cAMP-activated catalytic subunit beta	1.621	4.219	Up
1486	CTBS	chitobiase	0.773	7.973	Up
117178	SSX2IP	SSX family member 2 interacting protein	0.592	1.375	Up
23566	LPAR3	lysophosphatidic acid receptor 3	1.354	2.994	Up
84144	SYDE2	synapse defective Rho GTPase homolog 2	1.158	4.167	Up
57489	ODF2L	outer dense fiber of sperm tails 2 like	0.598	3.788	Up
9653	HS2ST1	heparan sulfate 2-O-sulfotransferase 1	0.429	1.384	Up
5586	PKN2	protein kinase N2	0.665	4.398	Up
56267	KYAT3	kynurenine aminotransferase 3	0.6	2.397	Up
55144	LRRC8D	leucine rich repeat containing 8 VRAC subunit D	0.965	1.993	Up
23285	KIAA1107	replaced by ID 284697	2.409	6.147	Up
8412	BCAR3	BCAR3 adaptor protein, NSP family member	1.321	2.989	Up
1.01E+08	TLCD4-RWDD3	TLCD4-RWDD3 readthrough	0.736	1.306	Up
58155	PTBP2	polypyrimidine tract binding protein 2	1.389	2.223	Up
1806	DPYD	dihydropyrimidine dehydrogenase	1.125	3.08	Up
23443	SLC35A3	solute carrier family 35 member A3	0.824	2.254	Up
1629	DBT	dihydrolipoamide branched chain transacylase E2	0.736	3.023	Up
8556	CDC14A	cell division cycle 14A	1.331	12.075	Up
1.05E+08	LOC105379827	uncharacterized LOC105379827	1.629	1.713	Up
51611	DPH5	diphthamide biosynthesis 5	0.739	1.793	Up
1.03E+08	DPH5-DT	DPH5 divergent transcript	0.985	2.526	Up
1901	S1PR1	sphingosine-1-phosphate receptor 1	0.514	1.371	Up

1.03E+08	LOC102723784	uncharacterized LOC102723784	2.841	5.16	Up
280	AMY2B	amylase alpha 2B	1.903	3.361	Up
279	AMY2A	amylase alpha 2A	2.707	1.993	Up
10451	VAV3	vav guanine nucleotide exchange factor 3	1.403	2.583	Up
56900	TMEM167B	transmembrane protein 167B	0.667	7.134	Up
57535	ELAPOR1	endosome-lysosome associated apoptosis and autophagy regulator 1	1.258	11.468	Up
1952	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2	0.944	2.136	Up
6272	SORT1	sortilin 1	3.015	11.011	Up
284613	CYB561D1	cytochrome b561 family member D1	0.574	1.984	Up
57463	AMIGO1	adhesion molecule with Ig like domain 1	2.771	14.478	Up
85369	STRIP1	striatin interacting protein 1	0.463	2.178	Up
257	ALX3	ALX homeobox 3	1.521	4.568	Up
3749	KCNC4	potassium voltage-gated channel subfamily C member 4	1.016	2.545	Up
128338	DRAM2	DNA damage regulated autophagy modulator 2	1.272	3.475	Up
79961	DENND2D	DENN domain containing 2D	1.175	3.679	Up
1117	CHI3L2	chitinase 3 like 2	2.541	5.048	Up
128344	PIFO	primary cilia formation	2.209	1.572	Up
5016	OVGP1	oviductal glycoprotein 1	1.795	2.486	Up
128346	C1orf162	chromosome 1 open reading frame 162	2.079	11.551	Up
7482	WNT2B	Wnt family member 2B	1.269	1.692	Up
9860	LRIG2	leucine rich repeats and immunoglobulin like domains 2	1.468	6.565	Up
260425	MAGI3	membrane associated guanylate kinase, WW and PDZ domain containing 3	0.815	2.433	Up
54665	RSBN1	round spermatid basic protein 1	0.58	2.987	Up
7812	CSDE1	cold shock domain containing E1	0.587	2.182	Up
10100	TSPAN2	tetraspanin 2	2.237	5.028	Up
55356	SLC22A15	solute carrier family 22 member 15	1.852	1.405	Up
476	ATP1A1	ATPase Na+/K+ transporting subunit alpha 1	0.385	2.838	Up
84852	ATP1A1-AS1	ATP1A1 antisense RNA 1	0.446	2.686	Up
90874	ZNF697	zinc finger protein 697	2.215	2.456	Up
1.05E+08	LOC105378954		1.551	6.825	Up
728841	NBPF8	NBPF member 8	1.377	2.401	Up
1.08E+08	LOC107985523		1.803	1.553	Up
767846	PFN1P2	profilin 1 pseudogene 2	2.129	1.804	Up
1.01E+08	PDE4DIPP2	PDE4DIP pseudogene 2	1.531	4.145	Up
1.08E+08	LOC107985524	uncharacterized LOC107985524	1.445	4.859	Up
1.01E+08	NBPF26	NBPF member 26	1.143	1.349	Up
1.01E+08	LOC100996720	uncharacterized LOC100996720	1.112	3.116	Up
653464	SRGAP2C	SLIT-ROBO Rho GTPase activating protein 2C	0.751	2.331	Up
1.08E+08	LINC02798	long intergenic non-protein coding RNA 2798	3.73	4.637	Up
647121	EMBP1	embigin pseudogene 1	1.199	4.896	Up
1.01E+08	SRGAP2D	SLIT-ROBO Rho GTPase activating protein 2D (pseudogene)	0.636	1.411	Up
284565	NBPF15	NBPF member 15	1.697	8.455	Up

647135	SRGAP2B	SLIT-ROBO Rho GTPase activating protein 2B	0.775	2.413	Up
1.03E+08	LINC01145	long intergenic non-protein coding RNA 1145	0.986	3.174	Up
1.01E+08	LOC100996740	uncharacterized LOC100996740	1.482	5.113	Up
1E+08	NBPF20	NBPF member 20	1.247	1.325	Up
1.05E+08	LOC105371312	uncharacterized LOC105371312	1.201	3.463	Up
1.02E+08	NBPF25P	NBPF member 25, pseudogene	1.398	2.523	Up
128077	LIX1L	limb and CNS expressed 1 like	0.705	4.852	Up
84265	POLR3GL	RNA polymerase III subunit GL	1.171	8.945	Up
10628	TXNIP	thioredoxin interacting protein	2.579	38.833	Up
1.12E+08	LOC112268274	uncharacterized LOC112268274	2.627	1.608	Up
1.01E+08	LOC100996756	uncharacterized LOC100996756	3.011	22.484	Up
149013	NBPF12	NBPF member 12	1.807	2.994	Up
5565	PRKAB2	protein kinase AMP-activated non-catalytic subunit beta 2	1.111	4.854	Up
51205	ACP6	acid phosphatase 6, lysophosphatidic	0.732	2.864	Up
200030	NBPF11	NBPF member 11	1.695	2.728	Up
1E+08	PDE4DIPP6	PDE4DIP pseudogene 6	1.359	2.861	Up
388685	LINC01138	long intergenic non-protein coding RNA 1138	0.939	2.878	Up
1.05E+08	LOC105371224	uncharacterized LOC105371224	1.164	8.393	Up
1.01E+08	NOTCH2NLB	notch 2 N-terminal like B	0.642	2.256	Up
9659	PDE4DIP	phosphodiesterase 4D interacting protein	1.302	5.337	Up
1.12E+08	LOC112268272	uncharacterized LOC112268272	1.093	1.974	Up
400818	NBPF9	NBPF member 9	1.485	3.059	Up
1.01E+08	NOTCH2NLC	notch 2 N-terminal like C	1.101	5.552	Up
1.01E+08	NBPF19	NBPF member 19	1.383	1.581	Up
57234	LINC00869	long intergenic non-protein coding RNA 869	0.891	2.882	Up
1.12E+08	LOC112268236		0.911	1.399	Up
644634	LOC644634	uncharacterized LOC644634	0.907	1.622	Up
2209	FCGR1A	Fc gamma receptor Ia	2.976	1.309	Up
8370	H4C14	H4 clustered histone 14	1.135	1.475	Up
1.12E+08	LOC112268238	replaced by ID 554313	0.979	2.205	Up
554313	H4C15	H4 clustered histone 15	1.182	1.59	Up
51027	BOLA1	bolA family member 1	0.697	1.41	Up
51177	PLEKHO1	pleckstrin homology domain containing O1	1.082	3.892	Up
79630	C1orf54	chromosome 1 open reading frame 54	2.262	6.407	Up
23248	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.862	4.573	Up
1893	ECM1	extracellular matrix protein 1	2.623	2.872	Up
4170	MCL1	MCL1 apoptosis regulator, BCL2 family member	0.494	2.101	Up
8416	ANXA9	annexin A9	1.628	6.284	Up
55793	MINDY1	MINDY lysine 48 deubiquitinase 1	0.871	2.737	Up
58497	PRUNE1	prune exopolyphosphatase 1	0.778	1.98	Up

149428	BNIPL	BCL2 interacting protein like	1.924	1.644	Up
54964	C1orf56	chromosome 1 open reading frame 56	0.816	3.896	Up
56882	CDC42SE1	CDC42 small effector 1	0.657	6.937	Up
126626	GABPB2	GA binding protein transcription factor subunit beta 2	1.092	1.954	Up
10500	SEMA6C	semaphorin 6C	1.845	3.682	Up
79626	TNFAIP8L2	TNF alpha induced protein 8 like 2	1.228	6.058	Up
81609	SNX27	sorting nexin 27	0.631	3	Up
11189	CELF3	CUGBP Elav-like family member 3	0.711	3.992	Up
1.1E+08	TDRKH-AS1	TDRKH antisense RNA 1	2.455	4.981	Up
117145	THEM4	thioesterase superfamily member 4	0.904	2.669	Up
6282	S100A11	S100 calcium binding protein A11	0.551	1.438	Up
6280	S100A9	S100 calcium binding protein A9	2.11	3.144	Up
6279	S100A8	S100 calcium binding protein A8	2.851	3.373	Up
6275	S100A4	S100 calcium binding protein A4	0.948	2.209	Up
1.02E+08	LOC101928034	uncharacterized LOC101928034	0.832	1.901	Up
11000	SLC27A3	solute carrier family 27 member 3	1.341	4.338	Up
57459	GATAD2B	GATA zinc finger domain containing 2B	0.701	2.584	Up
6232	RPS27	ribosomal protein S27	1.169	2.777	Up
57198	ATP8B2	ATPase phospholipid transporting 8B2	0.967	5.115	Up
3570	IL6R	interleukin 6 receptor	0.753	3.258	Up
126669	SHE	Src homology 2 domain containing E	0.803	2.831	Up
57326	PBXIP1	PBX homeobox interacting protein 1	2.592	89.941	Up
90780	PYGO2	pygopus family PHD finger 2	0.916	5.865	Up
1.02E+08	LOC101928120	uncharacterized LOC101928120	0.487	1.493	Up
1944	EFNA3	ephrin A3	1.692	7.267	Up
1942	EFNA1	ephrin A1	3.92	6.475	Up
7059	THBS3	thrombospondin 3	1.088	2.031	Up
1.05E+08	THBS3-AS1	THBS3 antisense RNA 1	1.065	1.831	Up
2630	GBAP1	glucosylceramidase beta pseudogene 1	0.396	1.366	Up
57657	HCN3	hyperpolarization activated cyclic nucleotide gated potassium channel 3	1.423	1.875	Up
55870	ASH1L	ASH1 like histone lysine methyltransferase	0.956	1.87	Up
1.08E+08	ARHGEF2-AS2	ARHGEF2 antisense RNA 2	2.941	3.587	Up
84283	TMEM79	transmembrane protein 79	1.318	3.753	Up
112770	GLMP	glycosylated lysosomal membrane protein	0.616	3.036	Up
9826	ARHGEF11	Rho guanine nucleotide exchange factor 11	2.779	49.657	Up
4332	MNDA	myeloid cell nuclear differentiation antigen	3.286	1.745	Up
149628	PYHIN1	pyrin and HIN domain family member 1	0.811	2.076	Up
343413	FCRL6	Fc receptor like 6	3.175	2.596	Up
56833	SLAMF8	SLAM family member 8	1.763	3.577	Up
284677	SNHG28	small nucleolar RNA host gene 28	1.606	2.215	Up
1.08E+08	LOC107985216	uncharacterized LOC107985216	2.359	1.658	Up
50717	DCAF8	DDB1 and CUL4 associated factor 8	0.443	2.807	Up
114836	SLAMF6	SLAM family member 6	1.32	13.129	Up
962	CD48	CD48 molecule	1	1.794	Up
4063	LY9	lymphocyte antigen 9	2.221	12.461	Up
27005	USP21	ubiquitin specific peptidase 21	0.805	3.433	Up

2207	FCER1G	Fc epsilon receptor Ig	1.997	4.79	Up
257177	CFAP126	cilia and flagella associated protein 126	0.707	1.431	Up
2212	FCGR2A	Fc gamma receptor IIa	1.843	1.57	Up
3310	HSPA6	heat shock protein family A (Hsp70) member 6	1.963	2.621	Up
9103	FCGR2C	Fc gamma receptor IIc (gene/pseudogene)	2.309	3.164	Up
3311	HSPA7	heat shock protein family A (Hsp70) member 7 (pseudogene)	1.718	2.045	Up
2213	FCGR2B	Fc gamma receptor IIb	2.815	5.553	Up
84824	FCRLA	Fc receptor like A	2.755	1.515	Up
127943	FCRLB	Fc receptor like B	1.833	1.388	Up
25903	OLFML2B	olfactomedin like 2B	2.382	1.363	Up
117157	SH2D1B	SH2 domain containing 1B	2.09	3.666	Up
5087	PBX1	PBX homeobox 1	3.795	4.78	Up
1.05E+08	LOC105371600	uncharacterized LOC105371600	4.495	4.049	Up
10223	GPA33	glycoprotein A33	4.782	34.434	Up
919	CD247	CD247 molecule	0.824	7.493	Up
8804	CREG1	cellular repressor of E1A stimulated genes 1	0.798	5.314	Up
92241	RCSD1	RCSD domain containing 1	1.28	2.997	Up
9095	TBX19	T-box transcription factor 19	2.56	8.373	Up
6402	SELL	selectin L	1.625	17.747	Up
8674	VAMP4	vesicle associated membrane protein 4	0.962	13.037	Up
26052	DNM3	dynamin 3	1.011	1.923	Up
1.03E+08	LOC102724528	uncharacterized LOC102724528	1.124	1.317	Up
92346	C1orf105	chromosome 1 open reading frame 105	1.195	1.978	Up
5279	PIGC	phosphatidylinositol glycan anchor biosynthesis class C	1.032	5.017	Up
7292	TNFSF4	TNF superfamily member 4	0.828	3.702	Up
1.01E+08	LOC100506023	uncharacterized LOC100506023	1.357	2.732	Up
1.08E+08	LOC107985227		1.617	1.305	Up
1.02E+08	PRDX6-AS1	PRDX6 antisense RNA 1	2.002	2.578	Up
1.01E+08	GAS5-AS1	GAS5 antisense RNA 1	1.906	4.532	Up
60674	GAS5	growth arrest specific 5	2.033	6.535	Up
26769	SNORD81	small nucleolar RNA, C/D box 81	1.288	1.518	Up
1.07E+08	SNORA103	small nucleolar RNA, H/ACA box 103	2.109	7.548	Up
84614	ZBTB37	zinc finger and BTB domain containing 37	1.072	3.154	Up
9910	RABGAP1L	RAB GTPase activating protein 1 like	1.265	5.167	Up
1.05E+08	LOC105371622	uncharacterized LOC105371622	2.615	11.57	Up
9462	RASAL2	RAS protein activator like 2	3.237	3.694	Up
646976	RALGPS2-AS1	RALGPS2 antisense RNA 1	2.189	2.545	Up
55103	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2	1.827	19.68	Up
27	ABL2	ABL proto-oncogene 2, non-receptor tyrosine kinase	0.609	2.153	Up
57710	KIAA1614	KIAA1614	1.129	1.361	Up
3140	MR1	major histocompatibility complex, class I-related	0.543	4.27	Up
6041	RNASEL	ribonuclease L	1.274	9.8	Up
3915	LAMC1	laminin subunit gamma 1	1.682	1.742	Up
4688	NCF2	neutrophil cytosolic factor 2	3.146	8.475	Up

1.08E+08	LOC107985235		4.462	2.078	Up
23179	RGL1	ral guanine nucleotide dissociation stimulator like 1	1.506	10.78	Up
81563	C1orf21	chromosome 1 open reading frame 21	2.671	4.37	Up
1.08E+08	LOC107985236	uncharacterized LOC107985236	2.321	2.903	Up
80267	EDEM3	ER degradation enhancing alpha-mannosidase like protein 3	0.645	4.257	Up
116496	NIBAN1	niban apoptosis regulator 1	0.859	1.648	Up
81627	TRMT1L	tRNA methyltransferase 1 like	0.579	1.694	Up
54823	SWT1	SWT1 RNA endoribonuclease homolog	0.611	2.092	Up
10625	IVNS1ABP	influenza virus NS1A binding protein	1.049	5.888	Up
64407	RGS18	regulator of G protein signaling 18	1.563	2.841	Up
1.01E+08	MIR4426	microRNA 4426	0.918	1.482	Up
5997	RGS2	regulator of G protein signaling 2	1.318	2.966	Up
3075	CFH	complement factor H	1.158	1.938	Up
360023	ZBTB41	zinc finger and BTB domain containing 41	1.289	11.406	Up
23418	CRB1	crumbs cell polarity complex component 1	4.242	2.576	Up
140609	NEK7	NIMA related kinase 7	0.807	10.269	Up
5788	PTPRC	protein tyrosine phosphatase receptor type C	0.724	7.055	Up
23271	CAMSAP2	calmodulin regulated spectrin associated protein family member 2	0.797	2.832	Up
2848	GPR25	G protein-coupled receptor 25	2.248	2.664	Up
252839	TMEM9	transmembrane protein 9	0.629	1.487	Up
1.08E+08	CSRP1-AS1	CSRP1 antisense RNA 1	0.947	1.576	Up
59352	LGR6	leucine rich repeat containing G protein-coupled receptor 6	4.702	3.017	Up
4660	PPP1R12B	protein phosphatase 1 regulatory subunit 12B	1.378	2.916	Up
127833	SYT2	synaptotagmin 2	2.917	2.803	Up
8497	PPFIA4	PTPRF interacting protein alpha 4	1.422	1.924	Up
9580	SOX13	SRY-box transcription factor 13	1.953	3.616	Up
5972	REN	renin	5.98	6.165	Up
1.05E+08	LOC105371692	uncharacterized LOC105371692	1.719	1.814	Up
81788	NUAK2	NUAK family kinase 2	2.697	26.072	Up
148808	MFSD4A	major facilitator superfamily domain containing 4A	1.633	3.572	Up
64710	NUCKS1	nuclear casein kinase and cyclin dependent kinase substrate 1	0.398	1.742	Up
284581	LOC284581	uncharacterized LOC284581	1.077	1.619	Up
338382	RAB7B	RAB7B, member RAS oncogene family	2.789	3.738	Up
440712	RHEX	regulator of hemoglobinization and erythroid cell expansion	3.963	2.523	Up
1939	EIF2D	eukaryotic translation initiation factor 2D	0.736	3.112	Up
1.05E+08	LOC105372877		2.109	2.422	Up
1.05E+08	LOC105372879	uncharacterized LOC105372879	4.009	4.22	Up
11009	IL24	interleukin 24	3.271	37.846	Up
9214	FCMR	Fc mu receptor	3.412	30.144	Up
1604	CD55	CD55 molecule (Cromer blood group)	0.843	2.509	Up
1380	CR2	complement C3d receptor 2	2.492	2.071	Up

1378	CR1	complement C3b/C4b receptor 1 (Knops blood group)	5.295	5.91	Up
1E+08	MIR29B2CHG	MIR29B2 and MIR29C host gene	1.339	1.453	Up
947	CD34	CD34 molecule	2.584	3.626	Up
148304	C1orf74	chromosome 1 open reading frame 74	0.507	1.784	Up
55733	HHAT	hedgehog acyltransferase	0.908	1.924	Up
55758	RCOR3	REST corepressor 3	0.577	3.176	Up
7188	TRAF5	TNF receptor associated factor 5	0.724	6.752	Up
1E+08	RPL21P28	ribosomal protein L21 pseudogene 28	0.978	2	Up
5525	PPP2R5A	protein phosphatase 2 regulatory subunit B'alpha	0.46	5.561	Up
26750	RPS6KC1	ribosomal protein S6 kinase C1	0.548	3.444	Up
375056	MIA3	MIA SH3 domain ER export factor 3	0.59	3.733	Up
148362	BROX	BRO1 domain and CAAX motif containing	0.323	1.368	Up
84976	DISP1	dispatched RND transporter family member 1	0.708	1.99	Up
7100	TLR5	toll like receptor 5	2.188	4.897	Up
55061	SUSD4	sushi domain containing 4	1.649	6.159	Up
441124	GTF2IP20	general transcription factor IIi pseudogene 20	1.683	1.44	Up
1E+08	SEPTIN7P13	septin 7 pseudogene 13	1.347	4.831	Up
2052	EPHX1	epoxide hydrolase 1	2.183	17.625	Up
9725	TMEM63A	transmembrane protein 63A	1.736	13.801	Up
3707	ITPKB	inositol-trisphosphate 3-kinase B	1.116	4.293	Up
56997	COQ8A	coenzyme Q8A	0.673	3.2	Up
1.05E+08	LOC105379282		2.238	1.554	Up
7483	WNT9A	Wnt family member 9A	3.233	2.032	Up
79169	C1orf35	chromosome 1 open reading frame 35	0.63	2.794	Up
574407	OBSCN-AS1	OBSCN antisense RNA 1	1.747	2.566	Up
84033	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	2.473	8.533	Up
1.02E+08	LOC101927401	uncharacterized LOC101927401	2.82	5.416	Up
92815	H2AC25	H2A clustered histone 25	1.302	4.382	Up
1E+08	BTNL10P	butyrophilin like 10, pseudogene	2.237	2.006	Up
5867	RAB4A	RAB4A, member RAS oncogene family	0.396	2.137	Up
54583	EGLN1	egl-9 family hypoxia inducible factor 1	0.929	1.649	Up
27185	DISC1	DISC1 scaffold protein	1.701	6.76	Up
80003	PCNX2	pecanex 2	1.803	4.812	Up
359948	IRF2BP2	interferon regulatory factor 2 binding protein 2	0.499	1.495	Up
9453	GGPS1	geranylgeranyl diphosphate synthase 1	0.5	2.498	Up
7107	GPR137B	G protein-coupled receptor 137B	0.791	2.146	Up
4548	MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	1.08	5.076	Up
64388	GREM2	gremlin 2, DAN family BMP antagonist	1.852	3.699	Up
8564	KMO	kynurenine 3-monooxygenase	1.59	5.943	Up
23596	OPN3	opsin 3	1.027	2.677	Up
10806	SDCCAG8	SHH signaling and ciliogenesis regulator SDCCAG8	0.647	4.822	Up
10000	AKT3	AKT serine/threonine kinase 3	0.962	10.898	Up
10472	ZBTB18	zinc finger and BTB domain containing 18	2.408	20.633	Up
1.05E+08	LOC105373264		1.95	1.372	Up
163882	CNST	consortin, connexin sorting protein	0.804	4.037	Up
114548	NLRP3	NLR family pyrin domain containing 3	1.242	3.12	Up

1.05E+08	LOC105373279	uncharacterized LOC105373279	2.171	2.369	Up
55657	ZNF692	zinc finger protein 692	0.664	1.366	Up
267002	PGBD2	piggyBac transposable element derived 2	0.569	1.949	Up
1.03E+08	LOC102724250	neuroblastoma breakpoint family member 1-like	2.105	5.366	Up
8462	KLF11	KLF transcription factor 11	0.765	4.211	Up
3241	HPCAL1	hippocalcin like 1	0.613	1.431	Up
130813	C2orf50	chromosome 2 open reading frame 50	2.248	2.482	Up
130814	SLC66A3	solute carrier family 66 member 3	0.755	3.553	Up
1.05E+08	LOC105373431	uncharacterized LOC105373431	2.628	6.013	Up
28951	TRIB2	tribbles pseudokinase 2	1.588	7.613	Up
4613	MYCN	MYCN proto-oncogene, bHLH transcription factor	1.952	1.342	Up
400946	LINC00954	long intergenic non-protein coding RNA 954	1.98	1.63	Up
9741	LAPTM4A	lysosomal protein transmembrane 4 alpha	0.658	2.255	Up
23369	PUM2	pumilio RNA binding family member 2	0.654	2.808	Up
64342	HS1BP3	HCLS1 binding protein 3	1.078	7.028	Up
151449	GDF7	growth differentiation factor 7	1.582	1.799	Up
54454	ATAD2B	ATPase family AAA domain containing 2B	0.752	2.191	Up
375190	FAM228B	family with sequence similarity 228 member B	2.094	13.82	Up
51277	DNAJC27	DnaJ heat shock protein family (Hsp40) member C27	1.242	5.239	Up
729723	DNAJC27-AS1	DNAJC27 antisense RNA 1	3.369	6.596	Up
1838	DTNB	dystrobrevin beta	0.594	1.464	Up
1.05E+08	LOC105374334	uncharacterized LOC105374334	2.019	2.568	Up
3795	KHK	ketohexokinase	0.812	1.59	Up
7349	UCN	urocortin	2.717	2.344	Up
2498	FTH1P3	ferritin heavy chain 1 pseudogene 3	0.816	2.223	Up
26160	IFT172	intraflagellar transport 172	1.403	5.575	Up
79635	CCDC121	coiled-coil domain containing 121	2.35	4.822	Up
151056	PLB1	phospholipase B1	1.879	4.089	Up
79745	CLIP4	CAP-Gly domain containing linker protein family member 4	1	8.492	Up
51646	YPEL5	yippee like 5	1.141	6.13	Up
81606	LBH	LBH regulator of WNT signaling pathway	1.358	3.126	Up
58484	NLRC4	NLR family CARD domain containing 4	2.283	4.42	Up
84272	YIPF4	Yip1 domain family member 4	0.303	1.554	Up
6801	STRN	striatin	0.342	1.459	Up
54497	HEATR5B	HEAT repeat containing 5B	1.18	9.252	Up
55471	NDUFAF7	NADH:ubiquinone oxidoreductase complex assembly factor 7	0.475	1.895	Up
23683	PRKD3	protein kinase D3	0.825	1.89	Up
1.05E+08	LINC03063	long intergenic non-protein coding RNA 3063	1.87	6.055	Up
151393	RMDN2	regulator of microtubule dynamics 2	1.875	5.086	Up
1545	CYP1B1	cytochrome P450 family 1 subfamily B member 1	2.169	5.243	Up
8491	MAP4K3	mitogen-activated protein kinase kinase kinase kinase 3	0.842	1.86	Up
6546	SLC8A1	solute carrier family 8 member A1	3.041	3.285	Up
27436	EML4	EMAP like 4	0.577	1.954	Up
1.08E+08	LOC107985873		0.672	1.825	Up

23498	HAAO	3-hydroxyanthranilate 3,4-dioxygenase	1.313	1.319	Up
1.08E+08	LOC107985876	uncharacterized LOC107985876	3.698	3.649	Up
678	ZFP36L2	ZFP36 ring finger protein like 2	2.998	23.58	Up
1.08E+08	LOC107985878		1.127	1.579	Up
1.03E+08	LOC102724965	uncharacterized LOC102724965	1.185	1.85	Up
5581	PRKCE	protein kinase C epsilon	0.725	4.148	Up
90423	ATP6V1E2	ATPase H+ transporting V1 subunit E2	1.013	3.934	Up
129285	PPP1R21	protein phosphatase 1 regulatory subunit 21	0.672	6.271	Up
11037	STON1	stonin 1	1.648	2.126	Up
27248	ERLEC1	endoplasmic reticulum lectin 1	0.552	1.788	Up
1.12E+08	LOC112268415	uncharacterized LOC112268415	0.655	1.393	Up
98	ACYP2	acylphosphatase 2	0.614	1.311	Up
6711	SPTBN1	spectrin beta, non-erythrocytic 1	1.196	2.434	Up
130162	CLHC1	clathrin heavy chain linker domain containing 1	1.596	4.262	Up
6233	RPS27A	ribosomal protein S27a	0.912	1.356	Up
55704	CCDC88A	coiled-coil domain containing 88A	1.248	1.675	Up
112942	CFAP36	cilia and flagella associated protein 36	1.33	4.06	Up
130872	AHSA2P	activator of HSP90 ATPase homolog 2, pseudogene	1.181	3.703	Up
9736	USP34	ubiquitin specific peptidase 34	0.684	2.027	Up
84140	FAM161A	FAM161 centrosomal protein A	0.878	1.319	Up
51057	WDPCP	WD repeat containing planar cell polarity effector	1.094	4.738	Up
7360	UGP2	UDP-glucose pyrophosphorylase 2	0.561	2.893	Up
1.08E+08	LOC107984063		1.656	3.839	Up
23177	CEP68	centrosomal protein 68	1.994	17.049	Up
22848	AAK1	AP2 associated kinase 1	0.885	2.629	Up
1.12E+08	LOC112268437	uncharacterized protein FLJ45252	0.901	1.744	Up
64395	GMCL1	germ cell-less 1, spermatogenesis associated	1.111	4.713	Up
400960	PCBP1-AS1	PCBP1 antisense RNA 1	0.592	2.001	Up
51449	PCYOX1	prenylcysteine oxidase 1	1.372	10.805	Up
7039	TGFA	transforming growth factor alpha	1.691	3.02	Up
400961	PAIP2B	poly(A) binding protein interacting protein 2B	2.033	21.151	Up
26056	RAB11FIP5	RAB11 family interacting protein 5	0.404	2.116	Up
388963	C2orf81	chromosome 2 open reading frame 81	1.367	4.114	Up
1.01E+08	INO80B-WBP1	INO80B-WBP1 readthrough (NMD candidate)	0.51	1.951	Up
23559	WBP1	WW domain binding protein 1	1.163	5.042	Up
1768	DNAH6	dynein axonemal heavy chain 6	1.71	2.289	Up
1.05E+08	LOC105374838		1.892	1.831	Up
83439	TCF7L1	transcription factor 7 like 1	1.827	1.436	Up
1.01E+08	LOC100996506		1.964	4.53	Up
10618	TGOLN2	trans-golgi network protein 2	0.26	1.921	Up
1.01E+08	PARTICL	promoter of MAT2A antisense radiation-induced circulating long non-coding RNA	1.231	2.114	Up
388969	C2orf68	chromosome 2 open reading frame 68	0.712	4.805	Up
55818	KDM3A	lysine demethylase 3A	1.334	5.587	Up

1.01E+08	RNF103-CHMP3	RNF103-CHMP3 readthrough	0.729	2.166	Up
51652	CHMP3	charged multivesicular body protein 3	0.723	2.082	Up
7844	RNF103	ring finger protein 103	1.073	6.91	Up
400966	RGPD1	RANBP2 like and GRIP domain containing 1	0.715	2.847	Up
5343	PLGLB1	plasminogen like B1	1.242	3.118	Up
285074	ANAPC1P2	ANAPC1 pseudogene 2	0.361	1.45	Up
1.02E+08	LOC101928152	replaced by ID 101928173	1.152	1.883	Up
5342	PLGLB2	plasminogen like B2	1.362	4.822	Up
729857	RGPD2	RANBP2 like and GRIP domain containing 2	0.602	2.126	Up
51315	KRCC1	lysine rich coiled-coil 1	0.627	1.842	Up
1.02E+08	EIF2AK3-DT	EIF2AK3 divergent transcript	1.466	3.601	Up
84874	ZNF514	zinc finger protein 514	0.934	2.289	Up
7549	ZNF2	zinc finger protein 2	1.127	8.241	Up
55683	KANSL3	KAT8 regulatory NSL complex subunit 3	0.668	3.662	Up
1.01E+08	CNNM3-DT	CNNM3 divergent transcript	3.467	5.315	Up
26505	CNNM3	cyclin and CBS domain divalent metal cation transport mediator 3	1.441	10.942	Up
200539	ANKRD23	ankyrin repeat domain 23	1.484	1.532	Up
54910	SEMA4C	semaphorin 4C	1.761	6.706	Up
23505	TMEM131	transmembrane protein 131	0.519	1.383	Up
3631	INPP4A	inositol polyphosphate-4-phosphatase type I A	1.018	5.493	Up
493753	COA5	cytochrome c oxidase assembly factor 5	0.628	1.709	Up
11320	MGAT4A	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A	1.706	21.367	Up
1.08E+08	LOC107985922	uncharacterized LOC107985922	3.102	2.074	Up
1.02E+08	LINC02611	long intergenic non-protein coding RNA 2611	2.447	7.818	Up
343990	CRACDL	CRACD like	1.381	1.811	Up
80705	TSGA10	testis specific 10	1.071	4.106	Up
150590	C2orf15	chromosome 2 open reading frame 15	2.597	16.677	Up
51601	LIPT1	lipoyltransferase 1	0.994	4.132	Up
51263	MRPL30	mitochondrial ribosomal protein L30	0.395	1.347	Up
3899	AFF3	ALF transcription elongation factor 3	1.941	10.659	Up
6160	RPL31	ribosomal protein L31	0.932	1.664	Up
1.05E+08	LOC105373510	uncharacterized LOC105373510	1.779	1.631	Up
284996	RNF149	ring finger protein 149	1.229	13.037	Up
130827	TMEM182	transmembrane protein 182	1.357	3.606	Up
80146	UXS1	UDP-glucuronate decarboxylase 1	0.868	4.245	Up
644903	GCC2-AS1	GCC2 antisense RNA 1	1.153	1.428	Up
10913	EDAR	ectodysplasin A receptor	3.167	15.043	Up
1E+08	SH3RF3-AS1	SH3RF3 antisense RNA 1	4.105	13.451	Up
344558	SH3RF3	SH3 domain containing ring finger 3	4.379	22.33	Up
729540	RGPD6	RANBP2 like and GRIP domain containing 6	0.362	1.425	Up
84910	TMEM87B	transmembrane protein 87B	0.842	4.354	Up
129804	FBLN7	fibulin 7	1.463	4.414	Up
84524	ZC3H8	zinc finger CCCH-type containing 8	0.795	3.314	Up
376940	ZC3H6	zinc finger CCCH-type containing 6	2.352	16.514	Up

400999	SLC20A1-DT	SLC20A1 divergent transcript	4.59	3.174	Up
54520	CCDC93	coiled-coil domain containing 93	0.65	3.069	Up
140738	TMEM37	transmembrane protein 37	5.345	2.13	Up
1.02E+08	LOC101927764	uncharacterized LOC101927764	1.401	4.355	Up
5775	PTPN4	protein tyrosine phosphatase non-receptor type 4	1.445	9.504	Up
2995	GYPC	glycophorin C (Gerbich blood group)	1.745	9.112	Up
274	BIN1	bridging integrator 1	1.052	5.635	Up
1.05E+08	LOC105373608	uncharacterized LOC105373608	2.415	2.035	Up
55679	LIMS2	LIM zinc finger domain containing 2	1.351	2.448	Up
84826	SFT2D3	SFT2 domain containing 3	0.458	1.455	Up
84317	CCDC115	coiled-coil domain containing 115	0.641	5.759	Up
26469	PTPN18	protein tyrosine phosphatase non-receptor type 18	0.454	2.923	Up
653784	MZT2A	mitotic spindle organizing protein 2A	0.53	1.797	Up
905	CCNT2	cyclin T2	0.837	5.531	Up
1.12E+08	LOC112268426		2.569	17.54	Up
7852	CXCR4	C-X-C motif chemokine receptor 4	2.545	19.759	Up
3176	HNMT	histamine N-methyltransferase	3.437	2.596	Up
55843	ARHGAP15	Rho GTPase activating protein 15	0.583	1.301	Up
92	ACVR2A	activin A receptor type 2A	1.563	4.229	Up
55777	MBD5	methyl-CpG binding domain protein 5	0.477	1.589	Up
26122	EPC2	enhancer of polycomb homolog 2	0.652	4.464	Up
375287	RBM43	RNA binding motif protein 43	2.446	5.788	Up
1.02E+08	LINC01876	long intergenic non-protein coding RNA 1876	3.696	1.786	Up
440918	FLJ46875	uncharacterized LOC440918	2.32	3.076	Up
8502	PKP4	plakophilin 4	0.596	2.4	Up
1.03E+08	LOC102724081	uncharacterized LOC102724081	1.785	2.609	Up
9874	TLK1	tousled like kinase 1	1.012	4.415	Up
79901	CYBRD1	cytochrome b reductase 1	2.132	5.275	Up
3655	ITGA6	integrin subunit alpha 6	3.103	35.787	Up
1.02E+08	ITGA6-AS1	ITGA6 antisense RNA 1	1.362	2.511	Up
5163	PDK1	pyruvate dehydrogenase kinase 1	1.452	12.82	Up
11069	RAPGEF4	Rap guanine nucleotide exchange factor 4	3.12	1.718	Up
6670	SP3	Sp3 transcription factor	0.323	1.517	Up
151556	GPR155	G protein-coupled receptor 155	0.446	1.448	Up
1E+08	LOC100130691	Putative uncharacterized protein FLJ44553	1.074	1.935	Up
150737	TTC30B	tetratricopeptide repeat domain 30B	1.571	5.778	Up
91404	SESTD1	SEC14 and spectrin domain containing 1	1.257	1.764	Up
6744	ITPRID2	ITPR interacting domain containing 2	0.712	3.004	Up
142679	DUSP19	dual specificity phosphatase 19	1.505	3.974	Up
10203	CALCRL	calcitonin receptor like receptor	2.038	2.475	Up
7035	TFPI	tissue factor pathway inhibitor	3.137	5.474	Up
30061	SLC40A1	solute carrier family 40 member 1	1.665	2.608	Up
150709	ANKAR	ankyrin and armadillo repeat containing	1.102	4.029	Up
64172	OSGEPL1	O-sialoglycoprotein endopeptidase like 1	0.941	2.873	Up
1E+08	NEMP2	nuclear envelope integral membrane protein 2	0.878	4.279	Up

1.02E+08	ANKRD44-AS1	ANKRD44 antisense RNA 1	2.19	5.318	Up
5334	PLCL1	phospholipase C like 1 (inactive)	1.488	21.65	Up
130535	KCTD18	potassium channel tetramerization domain containing 18	0.512	2.877	Up
1195	CLK1	CDC like kinase 1	1.375	5.892	Up
841	CASP8	caspase 8	1.463	8.6	Up
659	BMPR2	bone morphogenetic protein receptor type 2	1.115	4.497	Up
150864	FAM117B	family with sequence similarity 117 member B	1.299	7.075	Up
79800	CARF	calcium responsive transcription factor	1.857	9.226	Up
57683	ZDBF2	zinc finger DBF-type containing 2	0.807	7.533	Up
8745	ADAM23	ADAM metallopeptidase domain 23	3.428	14.771	Up
8609	KLF7	KLF transcription factor 7	1.317	6.612	Up
3417	IDH1	isocitrate dehydrogenase (NADP(+)) 1	0.426	1.398	Up
200576	PIKFYVE	phosphoinositide kinase, FYVE-type zinc finger containing	0.791	3.3	Up
151050	KANSL1L	KAT8 regulatory NSL complex subunit 1 like	0.541	1.645	Up
10314	LANCL1	LanC like glutathione S-transferase 1	0.427	1.381	Up
92691	TMEM169	transmembrane protein 169	1.739	3.793	Up
1.02E+08	LOC101928156	uncharacterized LOC101928156	1.449	2.006	Up
64114	TMBIM1	transmembrane BAX inhibitor motif containing 1	0.876	4.52	Up
1.02E+08	MIR6513	microRNA 6513	0.826	2.307	Up
6556	SLC11A1	solute carrier family 11 member 1	4.264	8.137	Up
58190	CTDSP1	CTD small phosphatase 1	0.573	1.888	Up
1593	CYP27A1	cytochrome P450 family 27 subfamily A member 1	6.878	13.327	Up
79137	RETREG2	reticulophagy regulator family member 2	1.015	11.208	Up
55139	ANKZF1	ankyrin repeat and zinc finger peptidyl tRNA hydrolase 1	0.926	9.633	Up
3300	DNAJB2	DnaJ heat shock protein family (Hsp40) member B2	0.744	4.155	Up
10290	SPEG	striated muscle enriched protein kinase	1.524	3.001	Up
2043	EPHA4	EPH receptor A4	4.482	35.787	Up
79843	FAM124B	family with sequence similarity 124 member B	1.683	1.589	Up
3667	IRS1	insulin receptor substrate 1	2.359	1.901	Up
55022	PID1	phosphotyrosine interaction domain containing 1	4.568	3.032	Up
80210	ARMC9	armadillo repeat containing 9	1.615	2.068	Up
3635	INPP5D	inositol polyphosphate-5-phosphatase D	1.208	5.577	Up
55054	ATG16L1	autophagy related 16 like 1	0.582	3.657	Up
8527	DGKD	diacylglycerol kinase delta	0.578	1.317	Up
57007	ACKR3	atypical chemokine receptor 3	4.036	20.562	Up
10267	RAMP1	receptor activity modifying protein 1	1.583	2.005	Up
9759	HDAC4	histone deacetylase 4	1.151	3.925	Up
1.02E+08	HDAC4-AS1	HDAC4 antisense RNA 1	1.701	1.393	Up
51281	ANKMY1	ankyrin repeat and MYND domain containing 1	1.526	5.025	Up
285193	DUSP28	dual specificity phosphatase 28	1.113	6.597	Up
57140	RNPEPL1	arginyl aminopeptidase like 1	0.942	11.22	Up
25992	SNED1	sushi, nidogen and EGF like domains 1	2.365	15.323	Up
1.08E+08	LOC107985787	uncharacterized LOC107985787	4.151	2.304	Up
130916	MTERF4	mitochondrial transcription termination factor 4	1.082	9.512	Up
23178	PASK	PAS domain containing serine/threonine kinase	1.39	17.288	Up
728294	D2HGDH	D-2-hydroxyglutarate dehydrogenase	1.159	2.355	Up

1.05E+08	LOC105373976		2.118	1.99	Up
285093	RTP5	receptor transporter protein 5 (putative)	4.717	2.66	Up
1.02E+08	LINC01237	long intergenic non-protein coding RNA 1237	1.759	2.347	Up
1.03E+08	LINC01238	long intergenic non-protein coding RNA 1238	2.455	2.352	Up
728323	LINC01881	long intergenic non-protein coding RNA 1881	1.169	1.89	Up
51185	CRBN	cereblon	1.101	5.574	Up
9901	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	0.872	2.974	Up
55209	SETD5	SET domain containing 5	0.668	1.319	Up
26140	TTLL3	tubulin tyrosine ligase like 3	1.802	2.561	Up
84818	IL17RC	interleukin 17 receptor C	1.404	3.003	Up
78987	CRELD1	cysteine rich with EGF like domains 1	0.932	6.083	Up
152302	CIDECP1	CIDEC pseudogene 1	0.993	5.009	Up
6161	RPL32	ribosomal protein L32	0.86	1.416	Up
619563	SNORA7A	small nucleolar RNA, H/ACA box 7A	1.31	3.488	Up
9922	IQSEC1	IQ motif and Sec7 domain ArfGEF 1	1.022	3.494	Up
7476	WNT7A	Wnt family member 7A	4.291	20.197	Up
7508	XPC	XPC complex subunit, DNA damage recognition and repair factor	0.938	10.123	Up
1.08E+08	XPC-AS1	XPC antisense RNA 1	3.225	3.58	Up
6533	SLC6A6	solute carrier family 6 member 6	0.624	1.934	Up
80852	GRIP2	glutamate receptor interacting protein 2	0.786	3.074	Up
1.01E+08	FGD5-AS1	FGD5 antisense RNA 1	0.546	2.398	Up
7182	NR2C2	nuclear receptor subfamily 2 group C member 2	0.737	3.133	Up
64432	MRPS25	mitochondrial ribosomal protein S25	0.474	2.406	Up
64145	RBSN	rabenosyn, RAB effector	1.174	6.917	Up
23473	CAPN7	calpain 7	0.791	5.821	Up
686	BTD	biotinidase	0.998	5.342	Up
92106	OXNAD1	oxidoreductase NAD binding domain containing 1	1.305	10.854	Up
23228	PLCL2	phospholipase C like 2	1.358	20.474	Up
9779	TBC1D5	TBC1 domain family member 5	0.536	1.633	Up
1.02E+08	SATB1-AS1	SATB1 antisense RNA 1	0.958	4.775	Up
9975	NR1D2	nuclear receptor subfamily 1 group D member 2	1.943	22.085	Up
9497	SLC4A7	solute carrier family 4 member 7	0.776	3.232	Up
152098	ZCWPW2	zinc finger CW-type and PWWP domain containing 2	0.606	1.454	Up
27303	RBMS3	RNA binding motif single stranded interacting protein 3	1.337	1.793	Up
7048	TGFBR2	transforming growth factor beta receptor 2	1.052	2.191	Up
23171	GPD1L	glycerol-3-phosphate dehydrogenase 1 like	0.949	4.307	Up
152189	CMTM8	CKLF like MARVEL transmembrane domain containing 8	2.103	3.045	Up
112616	CMTM7	CKLF like MARVEL transmembrane domain containing 7	1.42	12.559	Up
1.08E+08	LOC107986073		1.248	2.326	Up
10491	CRTAP	cartilage associated protein	1.999	18.204	Up
1.05E+08	LINC02033	long intergenic non-protein coding RNA 2033	3.133	3.189	Up
9881	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1	1.581	8.734	Up
50853	VILL	villin like	0.973	3.343	Up
5333	PLCD1	phospholipase C delta 1	2.373	26.701	Up

1E+08	ACVR2B-AS1	ACVR2B antisense RNA 1	5.529	2.954	Up
93	ACVR2B	activin A receptor type 2B	1.342	3.21	Up
54977	SLC25A38	solute carrier family 25 member 38	0.629	4.127	Up
440952	EIF1B-AS1	EIF1B antisense RNA 1	1.994	2.86	Up
285266	ENTPD3-AS1	ENTPD3 antisense RNA 1	1.359	2.83	Up
285267	ZNF619	zinc finger protein 619	0.566	1.613	Up
285268	ZNF621	zinc finger protein 621	0.532	1.469	Up
54986	ULK4	unc-51 like kinase 4	0.793	1.884	Up
7433	VIPR1	vasoactive intestinal peptide receptor 1	3.829	31.034	Up
1.01E+08	VIPR1-AS1	VIPR1 antisense RNA 1	3.432	5.601	Up
9117	SEC22C	SEC22 homolog C, vesicle trafficking protein	0.526	1.782	Up
54861	SNRK	SNF related kinase	0.606	2.068	Up
1.01E+08	SNRK-AS1	SNRK antisense RNA 1	0.62	2.241	Up
285343	TCAIM	T cell activation inhibitor, mitochondrial	0.706	3.917	Up
1.03E+08	C3orf86P	long intergenic non-protein coding RNA 694	2.711	3.143	Up
353274	ZNF445	zinc finger protein 445	1.26	7.074	Up
285346	ZNF852	zinc finger protein 852	1.187	3.398	Up
1.1E+08	ZNF660-ZNF197	ZNF660-ZNF197 readthrough	0.882	3.566	Up
10168	ZNF197	zinc finger protein 197	0.881	3.549	Up
693149	MIR564	microRNA 564	1.641	2.372	Up
131616	TMEM42	transmembrane protein 42	1.446	6.064	Up
64866	CDCP1	CUB domain containing protein 1	1.013	1.369	Up
644714	LIMD1-AS1	LIMD1 antisense RNA 1	0.598	1.594	Up
54585	LZTFL1	leucine zipper transcription factor like 1	0.811	2.494	Up
10803	CCR9	C-C motif chemokine receptor 9	4.342	11.711	Up
79442	LRRC2	leucine rich repeat containing 2	4.13	8.233	Up
259173	ALS2CL	ALS2 C-terminal like	1.943	5.239	Up
1.01E+08	FCF1P2	FCF1 pseudogene 2	0.64	1.744	Up
51246	SHISA5	shisa family member 5	1.332	10.263	Up
51517	NCKIPSD	NCK interacting protein with SH3 domain	0.469	3.127	Up
1.01E+08	PRKAR2A-AS1	PRKAR2A antisense RNA 1	1.172	2.022	Up
55152	DALRD3	DALR anticodon binding domain containing 3	0.471	1.859	Up
10869	USP19	ubiquitin specific peptidase 19	0.522	1.567	Up
22973	LAMB2P1	laminin subunit beta 2 pseudogene 1	2.533	4.692	Up
375341	C3orf62	chromosome 3 open reading frame 62	0.734	1.588	Up
275	AMT	aminomethyltransferase	1.926	2.408	Up
4485	MST1	macrophage stimulating 1	1.631	1.612	Up
10181	RBM5	RNA binding motif protein 5	0.619	2.88	Up
1.01E+08	RBM5-AS1	RBM5 antisense RNA 1	0.845	1.86	Up
1E+08	SEMA3F-AS1	SEMA3F antisense RNA 1	0.667	2.798	Up
24142	NAA80	N-alpha-acetyltransferase 80, NatH catalytic subunit	0.567	3.013	Up
1.02E+08	RASSF1-AS1	RASSF1 antisense RNA 1	2.394	3.053	Up
51364	ZMYND10	zinc finger MYND-type containing 10	2.742	1.832	Up
9254	CACNA2D2	calcium voltage-gated channel auxiliary subunit alpha2delta 2	1.388	6.831	Up

1.08E+08	LINC02019	long intergenic non-protein coding RNA 2019	1.353	1.314	Up
51368	TEX264	testis expressed 264, ER-phagy receptor	0.642	2.26	Up
84836	ABHD14B	abhydrolase domain containing 14B	1.518	7.562	Up
25864	ABHD14A	abhydrolase domain containing 14A	0.797	2.474	Up
1849	DUSP7	dual specificity phosphatase 7	1.233	11.017	Up
54106	TLR9	toll like receptor 9	1.189	2.008	Up
51533	PHF7	PHD finger protein 7	1.789	9.386	Up
56920	SEMA3G	semaphorin 3G	1.917	2.411	Up
7134	TNNC1	troponin C1, slow skeletal and cardiac type	2.918	2.548	Up
23166	STAB1	stabilin 1	2.88	17.533	Up
55830	GLT8D1	glycosyltransferase 8 domain containing 1	0.542	2.949	Up
3700	ITIH4	inter-alpha-trypsin inhibitor heavy chain 4	2.026	1.647	Up
51460	SFMBT1	Scm like with four mbt domains 1	1.671	9.812	Up
285331	CCDC66	coiled-coil domain containing 66	1.289	4.934	Up
50650	ARHGEF3	Rho guanine nucleotide exchange factor 3	1.167	7.934	Up
26060	APPL1	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1	0.399	1.988	Up
1.06E+08	ARF4-AS1	ARF4 antisense RNA 1	1.114	1.502	Up
201627	DENND6A	DENN domain containing 6A	1.468	13.03	Up
2317	FLNB	filamin B	1.244	3.559	Up
1.05E+08	FLNB-AS1	FLNB antisense RNA 1	1.345	2.919	Up
57406	ABHD6	abhydrolase domain containing 6, acylglycerol lipase	0.59	2.313	Up
54899	PXK	PX domain containing serine/threonine kinase like	0.363	1.987	Up
2272	FHIT	fragile histidine triad diadenosine triphosphatase	1.7	4.25	Up
6314	ATXN7	ataxin 7	0.905	4.54	Up
407738	TAFA1	TAFA chemokine like family member 1	4.96	5.285	Up
7110	TMF1	TATA element modulatory factor 1	0.566	1.396	Up
4286	MITF	melanocyte inducing transcription factor	4.378	9.246	Up
27086	FOXP1	forkhead box P1	0.399	1.82	Up
1.08E+08	LOC107986097		3.566	3.842	Up
55279	ZNF654	zinc finger protein 654	0.488	1.641	Up
1.01E+08	ST3GAL6-AS1	ST3GAL6 antisense RNA 1	4.221	1.712	Up
10402	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	3.117	5.641	Up
50939	IMPG2	interphotoreceptor matrix proteoglycan 2	1.718	1.376	Up
57337	SENP7	SUMO specific peptidase 7	1.308	24.866	Up
27107	ZBTB11	zinc finger and BTB domain containing 11	0.377	2.388	Up
91775	NXPE3	neurexophilin and PC-esterase domain family member 3	0.411	1.57	Up
868	CBLB	Cbl proto-oncogene B	0.906	3.299	Up
9666	DZIP3	DAZ interacting zinc finger protein 3	0.514	1.949	Up
55347	ABHD10	abhydrolase domain containing 10, depalmitoylase	0.445	1.388	Up
25871	NEPRO	nucleolus and neural progenitor protein	0.451	1.818	Up
55779	CFAP44	cilia and flagella associated protein 44	2.467	3.374	Up
152185	SPICE1	spindle and centriole associated protein 1	0.582	1.366	Up
54847	SIDT1	SID1 transmembrane family member 1	0.857	8.476	Up
57577	CCDC191	coiled-coil domain containing 191	1.524	2.467	Up
1814	DRD3	dopamine receptor D3	3.246	2.776	Up

1.08E+08	LOC107986115		2.19	1.881	Up
26137	ZBTB20	zinc finger and BTB domain containing 20	2	9.599	Up
1.02E+08	LOC101926886		2.49	2.182	Up
11167	FSTL1	follistatin like 1	2.367	1.745	Up
6565	SLC15A2	solute carrier family 15 member 2	2.293	3.357	Up
54554	WDR5B	WD repeat domain 5B	0.664	3.064	Up
1.03E+08	WDR5B-DT	WDR5B divergent transcript	2.226	2.618	Up
79663	HSPBAP1	HSPB1 associated protein 1	0.592	2.142	Up
84925	SLC49A4	solute carrier family 49 member 4	1.614	7.429	Up
1E+08	LINC02035	long intergenic non-protein coding RNA 2035	2.145	9.445	Up
111	ADCY5	adenylate cyclase 5	2.593	2.339	Up
8997	KALRN	kalirin RhoGEF kinase	1.781	3.827	Up
3693	ITGB5	integrin subunit beta 5	3.173	8.651	Up
7707	ZNF148	zinc finger protein 148	0.481	2.885	Up
114885	OSBPL11	oxysterol binding protein like 11	0.323	1.437	Up
28999	KLF15	KLF transcription factor 15	1.948	1.495	Up
80325	ABTB1	ankyrin repeat and BTB domain containing 1	2.296	53.815	Up
8971	H1-10	H1.10 linker histone	0.923	3.343	Up
339942	H1-10-AS1	H1-10 antisense RNA 1	1.395	2.79	Up
132241	RPL32P3	ribosomal protein L32 pseudogene 3	1.29	2.764	Up
55764	IFT122	intraflagellar transport 122	0.926	5.41	Up
23129	PLXND1	plexin D1	2.447	9.763	Up
1.01E+08	TMCC1-DT	TMCC1 divergent transcript	1.01	1.428	Up
28990	ASTE1	asteroid homolog 1	0.908	6.282	Up
79858	NEK11	NIMA related kinase 11	1.621	4.552	Up
152195	NUDT16L2P	nudix hydrolase 16 like 2, pseudogene	2.705	1.968	Up
131870	NUDT16	nudix hydrolase 16	0.603	1.787	Up
55	ACP3	acid phosphatase 3	2.94	1.506	Up
23317	DNAJC13	DnaJ heat shock protein family (Hsp40) member C13	0.529	1.71	Up
1.01E+08	NPHP3-ACAD11	NPHP3-ACAD11 readthrough (NMD candidate)	2.132	3.679	Up
84129	ACAD11	acyl-CoA dehydrogenase family member 11	2.195	4.652	Up
27031	NPHP3	nephrocystin 3	2.025	2.658	Up
51560	RAB6B	RAB6B, member RAS oncogene family	1.07	2.474	Up
6259	RYK	receptor like tyrosine kinase	0.503	3.362	Up
80254	CEP63	centrosomal protein 63	0.741	4.744	Up
5523	PPP2R3A	protein phosphatase 2 regulatory subunit B''alpha	1.012	3.705	Up
55167	MSL2	MSL complex subunit 2	0.751	3.077	Up
347736	NME9	NME/NM23 family member 9	0.768	2.063	Up
22808	MRAS	muscle RAS oncogene homolog	3.433	8.547	Up
55186	SLC25A36	solute carrier family 25 member 36	0.656	5.606	Up
92370	PXYLP1	2-phosphoxylose phosphatase 1	1.03	4.978	Up
7029	TFDP2	transcription factor Dp-2	1.342	4.248	Up
7220	TRPC1	transient receptor potential cation channel subfamily C member 1	0.847	2.679	Up
285195	SLC9A9	solute carrier family 9 member A9	1.772	13.773	Up
205428	DIPK2A	divergent protein kinase domain 2A	0.974	4.176	Up
1359	CPA3	carboxypeptidase A3	2.942	5.373	Up

6596	HLTF	helicase like transcription factor	0.57	1.603	Up
84343	HPS3	HPS3 biogenesis of lysosomal organelles complex 2 subunit 1	1.006	4.657	Up
1356	CP	ceruloplasmin	1.393	5.165	Up
1.02E+08	ERICH6-AS1	ERICH6 antisense RNA 1	2.118	4.513	Up
401093	MBNL1-AS1	MBNL1 antisense RNA 1	0.547	2.892	Up
5028	P2RY1	purinergic receptor P2Y1	1.391	1.692	Up
5912	RAP2B	RAP2B, member of RAS oncogene family	0.882	6.481	Up
4311	MME	membrane metalloendopeptidase	4.112	3.59	Up
730091	LINC00886	long intergenic non-protein coding RNA 886	1.714	1.508	Up
1E+08	TRIM59-IFT80	TRIM59-IFT80 protein	0.409	1.549	Up
57560	IFT80	intraflagellar transport 80	0.877	4.223	Up
151742	PPM1L	protein phosphatase, Mg2+/Mn2+ dependent 1L	1.286	2.801	Up
1.05E+08	LOC105374187	uncharacterized LOC105374187	1.524	1.819	Up
5274	SERPINI1	serpin family I member 1	1.054	1.525	Up
80012	PHC3	polyhomeotic homolog 3	0.939	4.231	Up
6498	SKIL	SKI like proto-oncogene	1.616	2.785	Up
23043	TNIK	TRAF2 and NCK interacting kinase	0.956	3.293	Up
1.03E+08	LOC102724479	uncharacterized LOC102724479	1.665	2.483	Up
5337	PLD1	phospholipase D1	1.072	1.697	Up
5290	PIK3CA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	0.812	3.42	Up
51193	ZNF639	zinc finger protein 639	0.294	1.416	Up
23200	ATP11B	ATPase phospholipid transporting 11B (putative)	0.62	3.46	Up
56922	MCCC1	methylcrotonyl-CoA carboxylase subunit 1	0.636	3.459	Up
23101	MCF2L2	MCF.2 cell line derived transforming sequence-like 2	1.67	1.887	Up
84002	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	1.738	3.681	Up
1.08E+08	LOC107986162	uncharacterized LOC107986162	2.254	8.157	Up
54800	KLHL24	kelch like family member 24	2.481	32.194	Up
10057	ABCC5	ATP binding cassette subfamily C member 5	1.155	4.702	Up
1.05E+08	EIF2B5-DT	EIF2B5 divergent transcript	1.896	1.805	Up
2049	EPHB3	EPH receptor B3	1.975	1.428	Up
23355	VPS8	VPS8 subunit of CORVET complex	0.996	9.617	Up
1974	EIF4A2	eukaryotic translation initiation factor 4A2	0.949	5.221	Up
604	BCL6	BCL6 transcription repressor	0.588	2.424	Up
285386	TPRG1	tumor protein p63 regulated 1	1.608	2.944	Up
84239	ATP13A4	ATPase 13A4	1.528	1.728	Up
2814	GP5	glycoprotein V platelet	3.531	19.559	Up
23527	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	0.473	1.875	Up
5504	PPP1R2	protein phosphatase 1 regulatory inhibitor subunit 2	0.715	2.258	Up
200958	MUC20	mucin 20, cell surface associated	2.332	2.548	Up
10188	TNK2	tyrosine kinase non receptor 2	0.737	1.365	Up
1.05E+08	LOC105374301		2.56	1.699	Up
1.01E+08	TM4SF19-DYNLT2B	TM4SF19-DYNLT2B readthrough (NMD candidate)	1.505	2.176	Up

1.01E+08	TM4SF19-AS1	TM4SF19 antisense RNA 1	3.367	3.391	Up
116211	TM4SF19	transmembrane 4 L six family member 19	5.37	5.098	Up
165918	RNF168	ring finger protein 168	0.773	2.15	Up
152217	NCBP2AS2	NCBP2 antisense 2 (head to head)	0.367	1.841	Up
6165	RPL35A	ribosomal protein L35a	0.974	1.597	Up
7700	ZNF141	zinc finger protein 141	0.363	1.478	Up
79963	ABCA11P	ATP binding cassette subfamily A member 11, pseudogene	0.777	2.033	Up
170960	ZNF721	zinc finger protein 721	0.691	5.294	Up
84286	TMEM175	transmembrane protein 175	0.698	3.34	Up
10417	SPON2	spondin 2	2.07	1.764	Up
1E+08	LOC100130872	uncharacterized LOC100130872	2.053	5.317	Up
92070	CTBP1-DT	CTBP1 divergent transcript	0.677	2.929	Up
152877	FAM53A	family with sequence similarity 53 member A	1.744	4.118	Up
10460	TACC3	transforming acidic coiled-coil containing protein 3	0.55	2.123	Up
1.12E+08	LOC112268460	uncharacterized LOC112268460	0.676	3.09	Up
10608	MXD4	MAX dimerization protein 4	1.582	17.985	Up
1.01E+08	MIR4800	microRNA 4800	1.755	2.944	Up
166793	ZBTB49	zinc finger and BTB domain containing 49	0.872	4.737	Up
1.01E+08	STX18-AS1	STX18 antisense RNA 1 (head to head)	1.043	1.652	Up
54360	CYTL1	cytokine like 1	4.271	3.017	Up
1.05E+08	LINC02482	long intergenic non-protein coding RNA 2482	1.819	1.404	Up
93622	LOC93622	Morf4 family associated protein 1 like 1	1.32	8.275	Up
339988	LINC02481	long intergenic non-protein coding RNA 2481	3.687	9.611	Up
114932	MRFAP1L1	Morf4 family associated protein 1 like 1	0.647	2.611	Up
57533	TBC1D14	TBC1 domain family member 14	0.401	1.958	Up
1E+08	LOC100129931	uncharacterized LOC100129931	0.472	2.59	Up
257236	CCDC96	coiled-coil domain containing 96	1.278	2.582	Up
93624	TADA2B	transcriptional adaptor 2B	0.521	3.413	Up
730971	LINC02447	long intergenic non-protein coding RNA 2447	2.48	1.827	Up
84448	ABLIM2	actin binding LIM protein family member 2	1.92	9.119	Up
54436	SH3TC1	SH3 domain and tetratricopeptide repeats 1	1.064	4.462	Up
1.05E+08	LOC105369250	uncharacterized LOC105369250	1.61	2.16	Up
132864	CPEB2	cytoplasmic polyadenylation element binding protein 2	1.719	8.836	Up
285550	FAM200B	family with sequence similarity 200 member B	1.522	8.517	Up
683	BST1	bone marrow stromal cell antigen 1	1.475	1.606	Up
83888	FGFBP2	fibroblast growth factor binding protein 2	2.397	1.306	Up
202018	TAPT1	transmembrane anterior posterior transformation 1	0.606	2.826	Up
202020	TAPT1-AS1	TAPT1 antisense RNA 1 (head to head)	1.242	1.761	Up
27146	FAM184B	family with sequence similarity 184 member B	1.023	3.159	Up
54876	DCAF16	DDB1 and CUL4 associated factor 16	0.861	2.35	Up
254251	LCORL	ligand dependent nuclear receptor corepressor like	0.719	2.83	Up
285540	SEPSECS-AS1	SEPSECS antisense RNA 1 (head to head)	1.89	1.974	Up
389203	SMIM20	small integral membrane protein 20	0.988	2.367	Up
57620	STIM2	stromal interaction molecule 2	0.417	1.745	Up

1.06E+08	LINC01259	long intergenic non-protein coding RNA 1259	3.963	2.247	Up
1.03E+08	LOC102723415	replaced by ID 79667	4.756	3.538	Up
79667	KLF3-AS1	KLF3 antisense RNA 1	1.817	7.402	Up
51274	KLF3	KLF transcription factor 3	1.684	13.745	Up
57728	WDR19	WD repeat domain 19	0.874	2.541	Up
6133	RPL9	ribosomal protein L9	0.974	1.715	Up
11019	LIAS	lipoic acid synthetase	0.905	1.951	Up
1.01E+08	UGDH-AS1	UGDH antisense RNA 1	1.472	1.8	Up
201895	SMIM14	small integral membrane protein 14	2.858	26.279	Up
10396	ATP8A1	ATPase phospholipid transporting 8A1	2.297	15.233	Up
1.02E+08	LOC101927179	uncharacterized LOC101927179	0.889	1.396	Up
152518	NFXL1	nuclear transcription factor, X-box binding like 1	0.958	6.572	Up
7294	TXK	TXK tyrosine kinase	1.44	9.31	Up
7006	TEC	tec protein tyrosine kinase	0.684	1.457	Up
326340	ZAR1	zygote arrest 1	0.676	3.563	Up
132299	OCIAD2	OCIA domain containing 2	1.18	2.058	Up
26511	CHIC2	cysteine rich hydrophobic domain 2	0.947	3.585	Up
3815	KIT	KIT proto-oncogene, receptor tyrosine kinase	1.558	2.607	Up
55763	EXOC1	exocyst complex component 1	0.597	4.449	Up
5978	REST	RE1 silencing transcription factor	0.583	3.793	Up
84273	NOA1	nitric oxide associated 1	0.649	2.135	Up
1060	CENPC	centromere protein C	0.631	2.057	Up
550112	UBA6-DT	UBA6 divergent transcript	1.07	5.879	Up
91746	YTHDC1	YTH domain containing 1	0.573	1.752	Up
27284	SULT1B1	sulfotransferase family 1B member 1	6.003	36.516	Up
1633	DCK	deoxycytidine kinase	0.508	1.314	Up
166824	RASSF6	Ras association domain family member 6	2.452	2.764	Up
6374	CXCL5	C-X-C motif chemokine ligand 5	5.646	8.851	Up
8999	CDKL2	cyclin dependent kinase like 2	1.577	1.392	Up
27163	NAAA	N-acylethanolamine acid amidase	1.021	4.842	Up
950	SCARB2	scavenger receptor class B member 2	1.289	12.425	Up
1.05E+08	LOC105377291	uncharacterized LOC105377291	1.638	1.746	Up
1.08E+08	LOC107986290		2.894	3.568	Up
10983	CCNI	cyclin I	1.138	5.776	Up
1.02E+08	LOC101928864	uncharacterized LOC101928864	1.535	2.663	Up
901	CCNG2	cyclin G2	1.101	5.289	Up
246175	CNOT6L	CCR4-NOT transcription complex subunit 6 like	2.434	32.139	Up
55589	BMP2K	BMP2 inducible kinase	0.789	2.858	Up
5593	PRKG2	protein kinase cGMP-dependent 2	3.782	11.174	Up
1.05E+08	LOC105377308	uncharacterized LOC105377308	3.187	4.192	Up
1E+08	THAP9-AS1	THAP9 antisense RNA 1	1.118	4.165	Up
51316	PLAC8	placenta associated 8	1.058	3.953	Up
113510	HELQ	helicase, POLQ like	0.685	3.802	Up
84142	ABRAXAS1	abraxas 1, BRCA1 A complex subunit	0.994	4.043	Up

84803	GPAT3	glycerol-3-phosphate acyltransferase 3	1.309	4.317	Up
1040	CDS1	CDP-diacylglycerol synthase 1	1.794	2.156	Up
23001	WDFY3	WD repeat and FYVE domain containing 3	2.671	3.358	Up
132989	C4orf36	chromosome 4 open reading frame 36	1.65	1.396	Up
1.01E+08	AFF1-AS1	AFF1 antisense RNA 1	1.55	2.377	Up
345275	HSD17B13	hydroxysteroid 17-beta dehydrogenase 13	4.146	2.16	Up
51170	HSD17B11	hydroxysteroid 17-beta dehydrogenase 11	2.629	9.09	Up
6696	SPP1	secreted phosphoprotein 1	3.407	1.563	Up
8916	HERC3	HECT and RLD domain containing E3 ubiquitin protein ligase 3	0.528	2.974	Up
22915	MMRN1	multimerin 1	1.602	1.744	Up
1.01E+08	LOC100507053	uncharacterized LOC100507053	2.668	2.556	Up
5530	PPP3CA	protein phosphatase 3 catalytic subunit alpha	1.609	15.529	Up
90024	FLJ20021	uncharacterized LOC90024	2.672	7.88	Up
4126	MANBA	mannosidase beta	2.14	38.953	Up
93627	TBCK	TBC1 domain containing kinase	0.625	1.386	Up
113612	CYP2U1	cytochrome P450 family 2 subfamily U member 1	1.381	4.647	Up
51176	LEF1	lymphoid enhancer binding factor 1	1.238	4.013	Up
641518	LEF1-AS1	LEF1 antisense RNA 1	1.141	2.801	Up
6164	RPL34	ribosomal protein L34	1.137	2.049	Up
55013	MCUB	mitochondrial calcium uniporter dominant negative subunit beta	1.357	5.731	Up
839	CASP6	caspase 6	0.766	2.138	Up
1E+08	SNHG8	small nucleolar RNA host gene 8	1.098	4.295	Up
1.08E+08	LOC107983979		1.477	1.897	Up
645513	SEPTIN7P14	septin 7 pseudogene 14	1.129	3.394	Up
8654	PDE5A	phosphodiesterase 5A	1.052	2.815	Up
7222	TRPC3	transient receptor potential cation channel subfamily C member 3	3.743	4.364	Up
84162	BLTP1	bridge-like lipid transfer protein family member 1	1.548	3.328	Up
166379	BBS12	Bardet-Biedl syndrome 12	0.788	2.442	Up
256471	MFSD8	major facilitator superfamily domain containing 8	0.516	2.831	Up
79960	JADE1	jade family PHD finger 1	1.316	9.275	Up
23657	SLC7A11	solute carrier family 7 member 11	1.344	1.334	Up
1998	ELF2	E74 like ETS transcription factor 2	1.237	9.624	Up
83452	RAB33B	RAB33B, member RAS oncogene family	0.499	3.046	Up
80854	SETD7	SET domain containing 7, histone lysine methyltransferase	0.835	1.388	Up
55534	MAML3	mastermind like transcriptional coactivator 3	2.14	4.713	Up
1E+08	SCOC-AS1	SCOC antisense RNA 1	1.162	1.649	Up
23158	TBC1D9	TBC1 domain family member 9	1.461	1.801	Up
57484	RNF150	ring finger protein 150	3.428	1.532	Up
1.05E+08	LOC105377623	uncharacterized LOC105377623	1.649	3.057	Up
2549	GAB1	GRB2 associated binding protein 1	1.525	1.889	Up
4306	NR3C2	nuclear receptor subfamily 3 group C member 2	1.75	20.936	Up
1.08E+08	LOC107986195	uncharacterized LOC107986195	2.03	2.195	Up
6189	RPS3A	ribosomal protein S3A	0.94	1.463	Up
152503	SH3D19	SH3 domain containing 19	2.376	3.183	Up

1.08E+08	LOC107986196	uncharacterized LOC107986196	2.806	9.44	Up
729830	FHIP1A	FHF complex subunit HOOK interacting protein 1A	1.038	1.411	Up
201799	TMEM154	transmembrane protein 154	1.503	7.556	Up
23321	TRIM2	tripartite motif containing 2	1.257	1.597	Up
285533	RNF175	ring finger protein 175	2.823	5.455	Up
56034	PDGFC	platelet derived growth factor C	2.022	1.784	Up
51313	GASK1B	golgi associated kinase 1B	5.829	5.519	Up
55016	MARCHF1	membrane associated ring-CH-type finger 1	1.783	2.085	Up
23022	PALLD	palladin, cytoskeletal associated protein	1.769	2.155	Up
1.02E+08	GALNT7-DT	GALNT7 divergent transcript	0.977	1.697	Up
51809	GALNT7	polypeptide N-acetylgalactosaminyltransferase 7	0.522	2.147	Up
3148	HMGB2	high mobility group box 2	1.165	15.683	Up
1.05E+08	SAP30-DT	SAP30 divergent transcript	1.785	3.244	Up
80817	CEP44	centrosomal protein 44	0.471	1.987	Up
3248	HPGD	15-hydroxyprostaglandin dehydrogenase	1.251	1.76	Up
55602	CDKN2AIP	CDKN2A interacting protein	1.055	6.582	Up
3622	ING2	inhibitor of growth family member 2	0.883	3.978	Up
60684	TRAPPC11	trafficking protein particle complex subunit 11	0.467	1.976	Up
83891	SNX25	sorting nexin 25	0.771	2.034	Up
55325	UFSP2	UFM1 specific peptidase 2	0.673	4.829	Up
285440	CYP4V2	cytochrome P450 family 4 subfamily V member 2	1.002	4.413	Up
3818	KLKB1	kallikrein B1	2.878	2.17	Up
1.02E+08	PDCD6-DT	PDCD6 divergent transcript	3.283	2.729	Up
11076	TPPP	tubulin polymerization promoting protein	1.744	3.025	Up
653082	ZDHHC11B	zinc finger DHHC-type containing 11B	2.016	2.355	Up
1.02E+08	LOC101929200	uncharacterized LOC101929200	1.455	4.666	Up
11044	TENT4A	terminal nucleotidyltransferase 4A	0.69	4.062	Up
1.01E+08	SNHG18	small nucleolar RNA host gene 18	2.563	3.05	Up
54491	OTULINL	OTU deubiquitinase with linear linkage specificity like	1.257	10.562	Up
56172	ANKH	ANKH inorganic pyrophosphate transport regulator	0.806	4.413	Up
1E+08	LOC100130744	uncharacterized LOC100130744	0.622	3.575	Up
54463	RETREG1	reticulophagy regulator 1	1.699	18.369	Up
1.02E+08	RETREG1-AS1	RETREG1 antisense RNA 1	2.63	9.356	Up
1.12E+08	LOC112267938		2.352	1.696	Up
54545	MTMR12	myotubularin related protein 12	0.35	1.502	Up
4883	NPR3	natriuretic peptide receptor 3	1.463	1.96	Up
114899	C1QTNF3	C1q and TNF related 3	1.869	1.478	Up
1.02E+08	TTC23L-AS1	TTC23L antisense RNA 1	2.132	3.613	Up
1.05E+08	LOC105374724	uncharacterized LOC105374724	1.292	3.812	Up
3575	IL7R	interleukin 7 receptor	3.736	30.385	Up
133686	NADK2	NAD kinase 2, mitochondrial	0.322	1.545	Up
646719	NIPBL-DT	NIPBL divergent transcript	0.786	3.482	Up

9180	OSMR	oncostatin M receptor	0.796	1.561	Up
253260	RICTOR	RPTOR independent companion of MTOR complex 2	0.818	3.351	Up
2533	FYB1	FYN binding protein 1	1.573	10.336	Up
1601	DAB2	DAB adaptor protein 2	3.581	9.577	Up
6167	RPL37	ribosomal protein L37	0.957	1.889	Up
1.05E+08	LOC105374746	uncharacterized LOC105374746	1.901	6.172	Up
1.05E+08	LOC105374748	uncharacterized LOC105374748	0.972	2.002	Up
389289	ANXA2R	annexin A2 receptor	2.049	15.461	Up
153684	ANXA2R-AS1	ANXA2R antisense RNA 1	1.568	3.256	Up
1E+08	LOC100132356	uncharacterized LOC100132356	1.784	2.495	Up
1.01E+08	LOC100506639	uncharacterized LOC100506639	1.398	2.161	Up
7690	ZNF131	zinc finger protein 131	0.574	3.167	Up
56477	CCL28	C-C motif chemokine ligand 28	0.58	2.254	Up
375444	C5orf34	chromosome 5 open reading frame 34	0.623	1.361	Up
1.01E+08	NNT-AS1	NNT antisense RNA 1	0.916	4.066	Up
23530	NNT	nicotinamide nucleotide transhydrogenase	0.592	2.086	Up
133418	EMB	embigin	1.193	6.518	Up
79668	PARP8	poly(ADP-ribose) polymerase family member 8	1.37	8.186	Up
3673	ITGA2	integrin subunit alpha 2	1.748	2.307	Up
10468	FST	follistatin	2.711	1.376	Up
112574	SNX18	sorting nexin 18	0.62	3.697	Up
11082	ESM1	endothelial cell specific molecule 1	2.04	1.383	Up
3572	IL6ST	interleukin 6 cytokine family signal transducer	0.705	2.208	Up
79722	ANKRD55	ankyrin repeat domain 55	3.958	14.825	Up
1.02E+08	LOC101928419	uncharacterized LOC101928419	4.072	3.395	Up
4214	MAP3K1	mitogen-activated protein kinase kinase kinase 1	1.349	26.214	Up
1.05E+08	LOC105378980	uncharacterized LOC105378980	1.408	12.887	Up
202309	GAPT	GRB2 binding adaptor protein, transmembrane	3.275	5.17	Up
5144	PDE4D	phosphodiesterase 4D	1.142	5.402	Up
1E+08	LRRC70	leucine rich repeat containing 70	1.858	1.345	Up
11174	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif 6	2.774	4.509	Up
64105	CENPK	centromere protein K	1.459	6.899	Up
373	TRIM23	tripartite motif containing 23	0.889	5.032	Up
54557	SGTB	small glutamine rich tetratricopeptide repeat co-chaperone beta	1.086	3.696	Up
55914	ERBIN	erbb2 interacting protein	0.803	6.538	Up
4064	CD180	CD180 molecule	5.141	3.891	Up
5295	PIK3R1	phosphoinositide-3-kinase regulatory subunit 1	1.394	23.492	Up
653188	GUSBP3	GUSB pseudogene 3	1.592	1.687	Up
1.12E+08	LOC112267941		1.723	2.465	Up
11039	GUSBP14	GUSB pseudogene 14	1.685	1.888	Up
11042	GUSBP15	GUSB pseudogene 15	1.739	2.538	Up
653080	GUSBP16	GUSB pseudogene 16	1.586	1.474	Up
4671	NAIP	NLR family apoptosis inhibitory protein	1.718	1.91	Up

1E+08	GUSBP17	GUSB pseudogene 17	1.764	1.698	Up
79810	PTCD2	pentatricopeptide repeat domain 2	0.618	2.2	Up
115548	FCHO2	FCH and mu domain containing endocytic adaptor 2	1.89	6.492	Up
57763	ANKRA2	ankyrin repeat family A member 2	0.875	5.643	Up
3074	HEXB	hexosaminidase subunit beta	0.427	1.426	Up
51301	GCNT4	glucosaminyl (N-acetyl) transferase 4	1.922	13.125	Up
10788	IQGAP2	IQ motif containing GTPase activating protein 2	1.136	2.938	Up
2150	F2RL1	F2R like trypsin receptor 1	1.552	13.07	Up
8622	PDE8B	phosphodiesterase 8B	1.524	1.615	Up
728769	SCAMP1-AS1	SCAMP1 antisense RNA 1	1.309	4.277	Up
9522	SCAMP1	secretory carrier membrane protein 1	0.895	5.502	Up
10184	LHFPL2	LHFPL tetraspan subfamily member 2	2.104	4.369	Up
133746	JMY	junction mediating and regulatory protein, p53 cofactor	1.236	5	Up
167153	TENT2	terminal nucleotidyltransferase 2	0.561	2.449	Up
345778	MTX3	metaxin 3	0.971	3.448	Up
7060	THBS4	thrombospondin 4	2.229	2.592	Up
1.02E+08	THBS4-AS1	THBS4 antisense RNA 1	3.111	5.026	Up
256987	SERINC5	serine incorporator 5	1.699	21.784	Up
9765	ZFYVE16	zinc finger FYVE-type containing 16	0.752	2.121	Up
1E+08	MTRNR2L2	MT-RNR2 like 2 (pseudogene)	1.766	2.753	Up
1.03E+08	RASGRF2-AS1	RASGRF2 antisense RNA 1	2.06	3.67	Up
5924	RASGRF2	Ras protein specific guanine nucleotide releasing factor 2	2.08	15.018	Up
1160	CKMT2	creatine kinase, mitochondrial 2	2.044	15.055	Up
1E+08	CKMT2-AS1	CKMT2 antisense RNA 1	1.438	7.35	Up
6228	RPS23	ribosomal protein S23	0.706	1.439	Up
92270	ATP6AP1L	ATPase H+ transporting accessory protein 1 like (pseudogene)	1.533	1.743	Up
644285	LOC644285	uncharacterized LOC644285	2.99	1.989	Up
153364	MBLAC2	metallo-beta-lactamase domain containing 2	1.345	6.434	Up
57561	ARRDC3	arrestin domain containing 3	2.164	8.949	Up
83989	FAM172A	family with sequence similarity 172 member A	0.759	4.925	Up
79772	MCTP1	multiple C2 and transmembrane domain containing 1	1.785	4.465	Up
153642	ARSK	arylsulfatase family member K	1.078	3.096	Up
285601	GPR150	G protein-coupled receptor 150	1.537	2.844	Up
2745	GLRX	glutaredoxin	0.733	2.66	Up
1.03E+08	LOC102724720	uncharacterized LOC102724720	1.819	1.962	Up
285704	RGMB	repulsive guidance molecule BMP co-receptor b	2.053	23.776	Up
5066	PAM	peptidylglycine alpha-amidating monooxygenase	0.659	2.361	Up
64839	FBXL17	F-box and leucine rich repeat protein 17	0.604	2.168	Up
2241	FER	FER tyrosine kinase	0.699	2.465	Up
9867	PJA2	praja ring finger ubiquitin ligase 2	0.285	1.361	Up
4124	MAN2A1	mannosidase alpha class 2A member 1	0.896	5.776	Up
814	CAMK4	calcium/calmodulin dependent protein kinase IV	1.21	3.779	Up
114915	EPB41L4A-AS1	EPB41L4A antisense RNA 1	2.216	7.416	Up
167227	DCP2	decapping mRNA 2	0.443	1.457	Up
153733	CCDC112	coiled-coil domain containing 112	1.363	4.366	Up
1036	CDO1	cysteine dioxygenase type 1	2.823	3.207	Up
9140	ATG12	autophagy related 12	0.289	1.318	Up

153241	CEP120	centrosomal protein 120	1.302	7.407	Up
501	ALDH7A1	aldehyde dehydrogenase 7 family member A1	2.312	2.189	Up
1.05E+08	LOC105379198	uncharacterized LOC105379198	1.739	1.464	Up
56990	CDC42SE2	CDC42 small effector 2	0.441	2.015	Up
1.05E+08	LOC105379173	uncharacterized LOC105379173	0.545	2.362	Up
51735	RAPGEF6	Rap guanine nucleotide exchange factor 6	1.053	4.852	Up
96459	FNIP1	folliculin interacting protein 1	0.756	6.345	Up
23305	ACSL6	acyl-CoA synthetase long chain family member 6	3.062	15.788	Up
1.05E+08	LOC105379185	replaced by ID 7416	3.354	4.953	Up
6932	TCF7	transcription factor 7	1.984	24.769	Up
23338	JADE2	jade family PHD finger 2	0.728	2.62	Up
819	CAMLG	calcium modulating ligand	1.106	4.949	Up
84105	PCBD2	pterin-4 alpha-carbinolamine dehydratase 2	0.431	1.395	Up
347732	CATSPER3	cation channel sperm associated 3	1.884	1.85	Up
7045	TGFBI	transforming growth factor beta induced	2.552	4.703	Up
26249	KLHL3	kelch like family member 3	3.21	22.02	Up
27039	PKD2L2	polycystin 2 like 2, transient receptor potential cation channel	0.526	1.708	Up
51306	FAM13B	family with sequence similarity 13 member B	0.4	1.487	Up
10902	BRD8	bromodomain containing 8	0.435	2.368	Up
51523	CXXC5	CXXC finger protein 5	2.611	14.004	Up
1.01E+08	MALINC1	mitosis associated long intergenic non-coding RNA 1	2.004	14.818	Up
492311	IGIP	IgA inducing protein	1.421	3.822	Up
404734	ANKHD1-EIF4EBP3	ANKHD1-EIF4EBP3 readthrough	0.348	1.372	Up
8637	EIF4EBP3	eukaryotic translation initiation factor 4E binding protein 3	0.548	1.439	Up
929	CD14	CD14 molecule	3.985	13.503	Up
373863	DND1	DND microRNA-mediated repression inhibitor 1	0.56	1.372	Up
23438	HARS2	histidyl-tRNA synthetase 2, mitochondrial	0.753	7.736	Up
2908	NR3C1	nuclear receptor subfamily 3 group C member 1	1.158	5.001	Up
1809	DPYSL3	dihydropyrimidinase like 3	6.112	14.074	Up
9832	JAKMIP2	janus kinase and microtubule interacting protein 2	1.596	2.202	Up
78991	PCYOX1L	prenylcysteine oxidase 1 like	1.091	6.555	Up
1436	CSF1R	colony stimulating factor 1 receptor	3.531	3.099	Up
6208	RPS14	ribosomal protein S14	0.961	1.519	Up
85027	SMIM3	small integral membrane protein 3	1.206	3.155	Up
26112	CCDC69	coiled-coil domain containing 69	0.431	1.805	Up
2760	GM2A	ganglioside GM2 activator	1.835	7.519	Up
79685	SAP30L	SAP30 like	1.186	6.021	Up
9337	CNOT8	CCR4-NOT transcription complex subunit 8	0.7	2.64	Up
26762	HAVCR1	hepatitis A virus cellular receptor 1	5.195	7.385	Up
3702	ITK	IL2 inducible T cell kinase	0.447	1.822	Up
26999	CYFIP2	cytoplasmic FMR1 interacting protein 2	0.421	2.166	Up
114825	PWWP2A	PWWP domain containing 2A	0.421	2.639	Up
10569	SLU7	SLU7 homolog, splicing factor	0.4	1.334	Up
1.05E+08	LOC105377700	uncharacterized LOC105377700	1.167	6.757	Up

900	CCNG1	cyclin G1	1.09	4.575	Up
6793	STK10	serine/threonine kinase 10	0.627	2.001	Up
285590	SH3PXD2B	SH3 and PX domains 2B	1.582	3.033	Up
54492	NEURL1B	neuralized E3 ubiquitin protein ligase 1B	2.541	2.427	Up
1843	DUSP1	dual specificity phosphatase 1	1.457	6.359	Up
1.05E+08	LOC105377730	uncharacterized LOC105377730	3.652	4.325	Up
57222	ERGIC1	endoplasmic reticulum-golgi intermediate compartment 1	0.69	4.734	Up
153222	CREBRF	CREB3 regulatory factor	1.021	8.284	Up
1.05E+08	LOC105377735		1.489	1.745	Up
91272	BOD1	biorientation of chromosomes in cell division 1	0.431	1.517	Up
1.05E+08	LOC105377746		2.903	3.418	Up
202134	FAM153B	family with sequence similarity 153 member B	2.804	2.512	Up
22838	RNF44	ring finger protein 44	1.117	5.751	Up
1.12E+08	LOC112267951		2.253	2.208	Up
53917	RAB24	RAB24, member RAS oncogene family	0.634	3.967	Up
10636	RGS14	regulator of G protein signaling 14	0.523	1.896	Up
340037	PRR7-AS1	PRR7 antisense RNA 1	2.402	2.534	Up
79930	DOK3	docking protein 3	2.37	4.263	Up
54540	FAM193B	family with sequence similarity 193 member B	1.041	1.334	Up
285596	FAM153A	family with sequence similarity 153 member A	2.521	3.998	Up
653316	FAM153CP	protein FAM153C	1.946	1.318	Up
57396	CLK4	CDC like kinase 4	1.727	8.196	Up
6940	ZNF354A	zinc finger protein 354A	0.663	3.608	Up
117608	ZNF354B	zinc finger protein 354B	0.895	4.66	Up
80108	ZFP2	ZFP2 zinc finger protein	1.785	2.573	Up
30832	ZNF354C	zinc finger protein 354C	0.452	2.771	Up
4056	LTC4S	leukotriene C4 synthase	1.916	1.462	Up
51149	MRNIP	MRN complex interacting protein	0.853	4.763	Up
1.01E+08	MRNIP-DT	MRNIP divergent transcript	1.558	2.062	Up
23061	TBC1D9B	TBC1 domain family member 9B	0.45	1.323	Up
55819	RNF130	ring finger protein 130	1.842	15.899	Up
9945	GFPT2	glutamine-fructose-6-phosphate transaminase 2	2.93	4.049	Up
4245	MGAT1	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	0.454	3.7	Up
1.05E+08	LOC105377766		1.912	1.465	Up
1.01E+08	HEIH	hepatocellular carcinoma up-regulated EZH2-associated long non-coding RNA	1.303	11.452	Up
729678	LINC00847	long intergenic non-protein coding RNA 847	2.105	32.69	Up
643836	ZFP62	ZFP62 zinc finger protein	1.006	7.638	Up
81786	TRIM7	tripartite motif containing 7	1.702	4.357	Up
1.02E+08	CTC-338M12.4	uncharacterized LOC101928649	1.458	5.793	Up
84851	TRIM52	tripartite motif containing 52	1.008	16.432	Up
1.01E+08	TRIM52-AS1	TRIM52 antisense RNA 1 (head to head)	1.043	2.515	Up
1.01E+08	GMDS-DT	GMDS divergent transcript	1.423	2.082	Up

1.01E+08	MIR4645	microRNA 4645	2.694	2.265	Up
221756	SERPINB9P1	serpin family B member 9 pseudogene 1	1.771	6.318	Up
401232	LINC01011	long intergenic non-protein coding RNA 1011	3.628	15.651	Up
1.05E+08	NQO2-AS1	NQO2 antisense RNA 1	2.027	1.348	Up
63027	SLC22A23	solute carrier family 22 member 23	1.606	5.743	Up
643327	LOC643327	uncharacterized LOC643327	1.733	1.675	Up
404220	TEX56P	testis expressed 56, pseudogene	0.579	2.122	Up
10455	ECI2	enoyl-CoA delta isomerase 2	0.465	1.9	Up
1.08E+08	LOC107986515		2.643	2.017	Up
6239	RREB1	ras responsive element binding protein 1	1.173	2.207	Up
63915	BLOC1S5	biogenesis of lysosomal organelles complex 1 subunit 5	0.75	1.947	Up
51000	SLC35B3	solute carrier family 35 member B3	0.834	2.914	Up
1E+08	TMEM170B	transmembrane protein 170B	1.221	3.088	Up
221692	PHACTR1	phosphatase and actin regulator 1	3.287	10.169	Up
1E+08	LOC100130357	uncharacterized LOC100130357	2.105	2.003	Up
23408	SIRT5	sirtuin 5	0.743	4.408	Up
29116	MYLIP	myosin regulatory light chain interacting protein	1.137	5.661	Up
51439	FAM8A1	family with sequence similarity 8 member A1	2.267	25.038	Up
63971	KIF13A	kinesin family member 13A	1.363	1.688	Up
378884	NHLRC1	NHL repeat containing E3 ubiquitin protein ligase 1	0.891	1.602	Up
7913	DEK	DEK proto-oncogene	0.639	7.424	Up
255488	RNF144B	ring finger protein 144B	1.305	1.712	Up
729177	NBAT1	neuroblastoma associated transcript 1	5.425	1.642	Up
7915	ALDH5A1	aldehyde dehydrogenase 5 family member A1	0.55	1.403	Up
9750	RIPOR2	RHO family interacting cell polarization regulator 2	1.149	7.974	Up
1.05E+08	LOC105374981	uncharacterized LOC105374981	3.494	9.144	Up
3006	H1-2	H1.2 linker histone, cluster member	1.597	4.102	Up
8334	H2AC6	H2A clustered histone 6	2.808	7.045	Up
3017	H2BC5	H2B clustered histone 5	1.459	2.058	Up
11118	BTN3A2	butyrophilin subfamily 3 member A2	1.336	18.393	Up
11119	BTN3A1	butyrophilin subfamily 3 member A1	1.234	10.488	Up
10384	BTN3A3	butyrophilin subfamily 3 member A3	0.754	4.259	Up
285819	LOC285819	uncharacterized LOC285819	2.688	2.609	Up
387036	GUSBP2	GUSB pseudogene 2	1.703	1.447	Up
85236	H2BC12	H2B clustered histone 12	1.137	4.052	Up
7754	ZNF204P	zinc finger protein 204, pseudogene	2.1	9.051	Up
7738	ZNF184	zinc finger protein 184	0.561	2.477	Up
1E+08	ZSCAN16-AS1	ZSCAN16 antisense RNA 1	1.017	2.685	Up
80345	ZSCAN16	zinc finger and SCAN domain containing 16	0.892	3.479	Up
7745	ZKSCAN8	zinc finger with KRAB and SCAN domains 8	0.98	7.656	Up
387032	ZKSCAN4	zinc finger with KRAB and SCAN domains 4	1.258	9.478	Up
7741	ZSCAN26	zinc finger and SCAN domain containing 26	1.088	9.561	Up
80317	ZKSCAN3	zinc finger with KRAB and SCAN domains 3	1.928	12.117	Up
1.05E+08	LOC105374997	replaced by ID 222696	1.386	1.86	Up
222696	ZSCAN23	zinc finger and SCAN domain containing 23	2.004	2.698	Up
2550	GABBR1	gamma-aminobutyric acid type B receptor subunit 1	1.585	2.054	Up

285830	HLA-F-AS1	HLA-F antisense RNA 1	0.696	1.541	Up
80862	POLR1HASP	POLR1H antisense, pseudogene	1.655	4.845	Up
414777	HCG18	HLA complex group 18	0.531	4.587	Up
56658	TRIM39	tripartite motif containing 39	0.805	7.358	Up
3133	HLA-E	major histocompatibility complex, class I, E	0.694	3.488	Up
401247	LINC00243	long intergenic non-protein coding RNA 243	2.999	10.498	Up
780	DDR1	discoidin domain receptor tyrosine kinase 1	0.859	2.816	Up
54535	CCHCR1	coiled-coil alpha-helical rod protein 1	0.525	1.638	Up
253018	HCG27	HLA complex group 27	1.293	1.308	Up
1.02E+08	MICA-AS1	MICA antisense RNA 1	2.217	3.07	Up
352961	HCG26	HLA complex group 26	0.817	2.578	Up
534	ATP6V1G2	ATPase H+ transporting V1 subunit G2	2.07	2.331	Up
4795	NFKBIL1	NFKB inhibitor like 1	1.159	10.282	Up
57827	C6orf47	chromosome 6 open reading frame 47	0.333	1.474	Up
23564	DDAH2	dimethylarginine dimethylaminohydrolase 2	0.688	1.727	Up
3305	HSPA1L	heat shock protein family A (Hsp70) member 1 like	0.694	1.661	Up
50854	SNHG32	small nucleolar RNA host gene 32	2.146	10.92	Up
10919	EHMT2	euchromatic histone lysine methyltransferase 2	0.515	2.571	Up
1.08E+08	EHMT2-AS1	EHMT2 and SLC44A4 antisense RNA 1	0.536	1.985	Up
1797	DXO	decapping exoribonuclease	0.71	2.623	Up
7146	TNXA	tenascin XA (pseudogene)	3.465	2.906	Up
7148	TNXB	tenascin XB	2.978	4.548	Up
80863	PRRT1	proline rich transmembrane protein 1	2.247	6.735	Up
177	AGER	advanced glycosylation end-product specific receptor	2.176	3.656	Up
63940	GPSM3	G protein signaling modulator 3	0.945	6.549	Up
3109	HLA-DMB	major histocompatibility complex, class II, DM beta	1.933	4.239	Up
3108	HLA-DMA	major histocompatibility complex, class II, DM alpha	0.889	1.304	Up
3111	HLA-DOA	major histocompatibility complex, class II, DO alpha	1.462	1.428	Up
3115	HLA-DPB1	major histocompatibility complex, class II, DP beta 1	1.657	2.557	Up
6222	RPS18	ribosomal protein S18	0.773	1.33	Up
8705	B3GALT4	beta-1,3-galactosyltransferase 4	1.473	13.934	Up
5863	RGL2	ral guanine nucleotide dissociation stimulator like 2	0.846	2.991	Up
9278	ZBTB22	zinc finger and BTB domain containing 22	0.623	2.465	Up
5252	PHF1	PHD finger protein 1	0.648	3.888	Up
51596	CUTA	cutA divalent cation tolerance homolog	0.891	2.265	Up
8831	SYNGAP1	synaptic Ras GTPase activating protein 1	1.681	5.677	Up
1.01E+08	MIR5004	microRNA 5004	1.336	1.357	Up
221491	SMIM29	small integral membrane protein 29	0.984	6.359	Up
1.01E+08	RPS10-NUDT3	RPS10-NUDT3 readthrough	0.855	1.439	Up
6204	RPS10	ribosomal protein S10	0.876	1.444	Up
29993	PACSIN1	protein kinase C and casein kinase substrate in neurons 1	1.864	1.387	Up
50619	DEF6	DEF6 guanine nucleotide exchange factor	0.967	6.613	Up
5467	PPARD	peroxisome proliferator activated receptor delta	0.988	8.13	Up
2289	FKBP5	FKBP prolyl isomerase 5	1.659	30.557	Up
221481	ARMC12	armadillo repeat containing 12	2.197	2.572	Up
1.03E+08	BRPF3-AS1	BRPF3 antisense RNA 1	2.821	1.376	Up
11329	STK38	serine/threonine kinase 38	2.551	28.96	Up

221477	C6orf89	chromosome 6 open reading frame 89	0.579	2.04	Up
221476	PI16	peptidase inhibitor 16	2.785	3.915	Up
1.01E+08	LINC02520	long intergenic non-protein coding RNA 2520	1.971	3.635	Up
60685	ZFAND3	zinc finger AN1-type containing 3	0.552	2.993	Up
1769	DNAH8	dynein axonemal heavy chain 8	1.904	1.351	Up
55776	SAYSD1	SAYSVFN motif domain containing 1	0.699	2.158	Up
222643	UNC5CL	unc-5 family C-terminal like	2.728	4.393	Up
10930	APOBEC2	apolipoprotein B mRNA editing enzyme catalytic subunit 2	2.353	3.197	Up
221443	OARD1	O-acyl-ADP-ribose deacylase 1	1.013	7.105	Up
221442	ADCY10P1	ADCY10 pseudogene 1	1.912	2.337	Up
54209	TREM2	triggering receptor expressed on myeloid cells 2	5.114	5.849	Up
1.05E+08	LOC105375059	uncharacterized LOC105375059	2.885	1.856	Up
6903	TBCC	tubulin folding cofactor C	0.508	2.694	Up
23506	BICRAL	BICRA like chromatin remodeling complex associated protein	1.154	10.442	Up
401261	LOC401261	uncharacterized LOC401261	1.988	1.47	Up
441150	C6orf226	chromosome 6 open reading frame 226	0.674	1.684	Up
10695	CNPY3	canopy FGF signaling regulator 3	0.98	9.729	Up
1.07E+08	CNPY3-GNMT	CNPY3-GNMT readthrough	0.943	9.095	Up
5190	PEX6	peroxisomal biogenesis factor 6	1.135	12.423	Up
89953	KLC4	kinesin light chain 4	1.122	4.585	Up
1.12E+08	KLC4-AS1	KLC4 antisense RNA 1	1.19	1.55	Up
23113	CUL9	cullin 9	0.67	2.787	Up
24149	ZNF318	zinc finger protein 318	1.162	5.398	Up
860	RUNX2	RUNX family transcription factor 2	0.619	1.311	Up
59084	ENPP5	ectonucleotide pyrophosphatase/phosphodiesterase family member 5	2.054	2.045	Up
221400	TDRD6	tudor domain containing 6	4.801	11.284	Up
7941	PLA2G7	phospholipase A2 group VII	4.819	15.398	Up
85315	PAQR8	progestin and adipoQ receptor family member 8	1.509	4.487	Up
114327	EFHC1	EF-hand domain containing 1	1.811	4.498	Up
9697	TRAM2	translocation associated membrane protein 2	1.103	3.769	Up
22858	CILK1	ciliogenesis associated kinase 1	1.042	5.209	Up
26268	FBXO9	F-box protein 9	0.409	2.814	Up
647190	RPS16P5	ribosomal protein S16 pseudogene 5	4.084	2.49	Up
375513	GUSBP4	GUSB pseudogene 4	2.885	5.734	Up
1E+08	MTRNR2L9	MT-RNR2 like 9 (pseudogene)	1.984	1.861	Up
23469	PHF3	PHD finger protein 3	1.213	3.172	Up
346007	EYS	eyes shut homolog	1.982	2.376	Up
55788	LMBRD1	LMBR1 domain containing 1	0.811	4.064	Up
135154	SDHAF4	succinate dehydrogenase complex assembly factor 4	0.936	1.647	Up
79627	OGFRL1	opioid growth factor receptor like 1	1.615	10.107	Up
26503	SLC17A5	solute carrier family 17 member 5	0.889	5.983	Up
27145	FILIP1	filamin A interacting protein 1	2.021	1.81	Up
83699	SH3BGRL2	SH3 domain binding glutamate rich protein like 2	1.63	2.168	Up
55603	TENT5A	terminal nucleotidyltransferase 5A	1.029	4.222	Up
23033	DOP1A	DOP1 leucine zipper like protein A	0.995	5.525	Up
5238	PGM3	phosphoglucomutase 3	0.471	2.538	Up

112611	RWDD2A	RWD domain containing 2A	1.806	10.536	Up
167681	PRSS35	serine protease 35	2.988	2.524	Up
4907	NT5E	5'-nucleotidase ecto	1.427	1.431	Up
387066	SNHG5	small nucleolar RNA host gene 5	0.891	2.67	Up
23036	ZNF292	zinc finger protein 292	0.991	1.516	Up
10559	SLC35A1	solute carrier family 35 member A1	0.862	2.11	Up
10957	PNRC1	proline rich nuclear receptor coactivator 1	0.757	7.575	Up
58528	RRAGD	Ras related GTP binding D	1.149	6.815	Up
9994	CASP8AP2	caspase 8 associated protein 2	1.012	3.571	Up
60468	BACH2	BTB domain and CNC homolog 2	1.34	3.167	Up
1.02E+08	MANEA-DT	MANEA divergent transcript	2.183	2.63	Up
23376	UFL1	UFM1 specific ligase 1	0.673	4.896	Up
114792	KLHL32	kelch like family member 32	1.507	8.862	Up
26235	FBXL4	F-box and leucine rich repeat protein 4	0.755	2.023	Up
1.02E+08	PNISR-AS1	PNISR antisense RNA 1	0.941	3.295	Up
1E+08	TSTD3	thiosulfate sulfurtransferase like domain containing 3	0.981	3.815	Up
57531	HACE1	HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1	0.667	2.863	Up
202	CRYBG1	crystallin beta-gamma domain containing 1	0.769	2.548	Up
256380	SCML4	Scm polycomb group protein like 4	2.953	16.506	Up
2309	FOXO3	forkhead box O3	0.965	5.173	Up
27244	SESN1	sestrin 1	1.489	4.818	Up
221264	AK9	adenylate kinase 9	0.992	3.378	Up
23097	CDK19	cyclin dependent kinase 19	1.458	17.593	Up
117247	SLC16A10	solute carrier family 16 member 10	1.807	3.294	Up
5980	REV3L	REV3 like, DNA directed polymerase zeta catalytic subunit	0.886	1.391	Up
643749	TRAF3IP2-AS1	TRAF3IP2 antisense RNA 1	0.697	2.224	Up
2534	FYN	FYN proto-oncogene, Src family tyrosine kinase	1.318	14.034	Up
1.05E+08	LOC105377945	uncharacterized LOC105377945	1.435	19.033	Up
1.03E+08	LOC102724646	uncharacterized LOC102724646	0.982	2.929	Up
1.12E+08	LOC112267965		1.709	2.474	Up
3841	KPNA5	karyopherin subunit alpha 5	0.853	5.805	Up
254394	MCM9	minichromosome maintenance 9 homologous recombination repair factor	0.427	1.435	Up
221322	TBC1D32	TBC1 domain family member 32	0.619	1.416	Up
57515	SERINC1	serine incorporator 1	0.651	3.397	Up
5570	PKIB	cAMP-dependent protein kinase inhibitor beta	2.085	1.819	Up
23493	HEY2	hes related family bHLH transcription factor with YRPW motif 2	3.417	2.075	Up
1.12E+08	LOC112267973	replaced by ID 387357	1.986	2.245	Up
387357	THEMIS	thymocyte selection associated	0.805	1.968	Up
154075	SAMD3	sterile alpha motif domain containing 3	1.393	3.067	Up
9465	AKAP7	A-kinase anchoring protein 7	1.328	2.431	Up
8875	VNN2	vanin 2	2.441	6.278	Up
116843	SLC18B1	solute carrier family 18 member B1	1.289	6.016	Up
27115	PDE7B	phosphodiesterase 7B	3.355	8.443	Up
3459	IFNGR1	interferon gamma receptor 1	0.514	2.876	Up

1E+08	WAKMAR2	wound and keratinocyte migration associated lncRNA 2	2.492	7.605	Up
1.08E+08	LOC107986649		2.875	18.198	Up
64065	PERP	p53 apoptosis effector related to PMP22	1.43	3.424	Up
23593	HEBP2	heme binding protein 2	0.752	9.718	Up
25901	CCDC28A	coiled-coil domain containing 28A	1.362	5.071	Up
85021	REPS1	RALBP1 associated Eps domain containing 1	0.37	1.722	Up
51696	HECA	hdc homolog, cell cycle regulator	0.769	4.42	Up
167838	TXLNB	taxilin beta	1.49	1.571	Up
10370	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2	1.531	15.119	Up
9749	PHACTR2	phosphatase and actin regulator 2	1.042	1.903	Up
7402	UTRN	utrophin	1.73	4.427	Up
57621	ZBTB2	zinc finger and BTB domain containing 2	0.901	6.313	Up
55005	RMND1	required for meiotic nuclear division 1 homolog	0.727	1.521	Up
2099	ESR1	estrogen receptor 1	1.342	2.02	Up
23345	SYNE1	spectrin repeat containing nuclear envelope protein 1	1.329	14.885	Up
80177	MYCT1	MYC target 1	1.84	1.739	Up
26271	FBXO5	F-box protein 5	0.519	2.595	Up
4988	OPRM1	opioid receptor mu 1	0.882	1.399	Up
26034	IPCEF1	interaction protein for cytohesin exchange factors 1	0.8	3.273	Up
57492	ARID1B	AT-rich interaction domain 1B	0.651	1.409	Up
729515	TMEM242	transmembrane protein 242	0.377	2.03	Up
94120	SYTL3	synaptotagmin like 3	0.888	2.955	Up
1.01E+08	MIR3918	microRNA 3918	1.101	2.69	Up
56895	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4	1.772	6.211	Up
5071	PRKN	parkin RBR E3 ubiquitin protein ligase	2.259	3.317	Up
1E+08	LOC100289495	uncharacterized LOC100289495	1.911	2.03	Up
8635	RNASET2	ribonuclease T2	1.244	7.136	Up
1.05E+08	LOC105378122		1.517	2.08	Up
83887	TTLL2	tubulin tyrosine ligase like 2	3.633	2.495	Up
253769	WDR27	WD repeat domain 27	1.827	3.947	Up
55274	PHF10	PHD finger protein 10	0.625	7.884	Up
1.01E+08	LINC03014	long intergenic non-protein coding RNA 3014	0.999	2.142	Up
56975	FAM20C	FAM20C golgi associated secretory pathway kinase	5.104	11.967	Up
23353	SUN1	Sad1 and UNC84 domain containing 1	0.801	7.296	Up
90639	COX19	cytochrome c oxidase assembly factor COX19	0.792	2.712	Up
115330	GPR146	G protein-coupled receptor 146	2.779	25.279	Up
90637	ZFAND2A	zinc finger AN1-type containing 2A	0.74	1.964	Up
1E+08	LOC100128653	uncharacterized LOC100128653	1.638	1.373	Up
8379	MAD1L1	mitotic arrest deficient 1 like 1	1.412	22.216	Up
155185	AMZ1	archaelysin family metallopeptidase 1	2.146	2.572	Up
221937	FOXK1	forkhead box K1	0.754	1.748	Up
645700	ZNF890P	zinc finger protein 890, pseudogene	3.528	9.635	Up
26100	WIPI2	WD repeat domain, phosphoinositide interacting 2	0.8	4.424	Up
401303	ZNF815P	zinc finger protein 815, pseudogene	3.412	29.882	Up
654231	OCM	oncomodulin	4.159	8.324	Up

9265	CYTH3	cytohesin 3	1.793	6.509	Up
84792	FAM220A	family with sequence similarity 220 member A	0.748	1.606	Up
221955	DAGLB	diacylglycerol lipase beta	1.31	3.125	Up
54753	ZNF853	zinc finger protein 853	0.867	1.559	Up
7559	ZNF12	zinc finger protein 12	0.695	7.813	Up
729852	UMAD1	UBAP1-MVB12-associated (UMA) domain containing 1	0.921	3.9	Up
113263	GLCCI1	glucocorticoid induced 1	0.707	4.193	Up
3382	ICA1	islet cell autoantigen 1	1.436	2.02	Up
221806	VWDE	von Willebrand factor D and EGF domains	2.024	2.258	Up
85477	SCIN	scinderin	5.36	4.145	Up
57037	ANKMY2	ankyrin repeat and MYND domain containing 2	0.774	3.994	Up
1.02E+08	LOC101927609	uncharacterized LOC101927609	1.109	1.703	Up
54543	TOMM7	translocase of outer mitochondrial membrane 7	1.267	4.308	Up
55975	KLHL7	kelch like family member 7	0.636	1.694	Up
10457	GPNMB	glycoprotein nmb	6.896	51.256	Up
1687	GSDME	gasdermin E	2.999	3.887	Up
136895	C7orf31	chromosome 7 open reading frame 31	1.035	4.243	Up
54504	CPVL	carboxypeptidase vitellogenic like	4.266	5.498	Up
222166	MTURN	maturin, neural progenitor differentiation regulator homolog	1.01	7.451	Up
223082	ZNRF2	zinc and ring finger 2	0.354	1.365	Up
222161	DKFZP586I1420	uncharacterized protein DKFZp586I1420	1.002	5.866	Up
10392	NOD1	nucleotide binding oligomerization domain containing 1	0.969	4.104	Up
1.05E+08	LOC105375219	uncharacterized LOC105375219	4.993	4.207	Up
25948	KBTBD2	kelch repeat and BTB domain containing 2	0.635	6.632	Up
27241	BBS9	Bardet-Biedl syndrome 9	0.732	2.209	Up
64224	HERPUD2	HERPUD family member 2	0.812	4.497	Up
1.02E+08	HERPUD2-AS1	HERPUD2 antisense RNA 1	0.67	1.691	Up
80820	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1	2.723	10.312	Up
313	AOAH	acyloxyacyl hydrolase	2.618	2.133	Up
353345	GPR141	G protein-coupled receptor 141	1.252	1.307	Up
445347	TARP	TCR gamma alternate reading frame protein	0.896	5.213	Up
6967	TRGC2	T cell receptor gamma constant 2	0.87	1.457	Up
6966	TRGC1	T cell receptor gamma constant 1	0.729	1.93	Up
6984	TRGV10	T cell receptor gamma variable 10 (non-functional)	1.741	3.226	Up
1.01E+08	TRG-AS1	T cell receptor gamma locus antisense RNA 1	2.295	14.181	Up
6974	TRGV2	T cell receptor gamma variable 2	1.393	1.697	Up
57002	YAE1	YAE1 maturation factor of ABCE1	0.618	1.564	Up
9263	STK17A	serine/threonine kinase 17a	1.341	3.126	Up
55744	COA1	cytochrome c oxidase assembly factor 1	1.115	3.27	Up
401331	RASA4CP	RAS p21 protein activator 4C, pseudogene	1.13	8.289	Up
255031	LINC00957	long intergenic non-protein coding RNA 957	1.603	11.502	Up
5224	PGAM2	phosphoglycerate mutase 2	2.384	3.947	Up
27434	POLM	DNA polymerase mu	0.871	2.772	Up
83605	CCM2	CCM2 scaffold protein	0.597	5.029	Up
641977	SEPTIN7P2	septin 7 pseudogene 2	0.594	1.849	Up

3486	IGFBP3	insulin like growth factor binding protein 3	1.158	2.162	Up
64759	TNS3	tensin 3	1.569	2.099	Up
168507	PKD1L1	polycystin 1 like 1, transient receptor potential channel interacting	1.355	2.466	Up
7378	UPP1	uridine phosphorylase 1	1.221	6.026	Up
10320	IKZF1	IKAROS family zinc finger 1	0.628	4.844	Up
25870	SUMF2	sulfatase modifying factor 2	0.751	3.064	Up
5260	PHKG1	phosphorylase kinase catalytic subunit gamma 1	0.768	2.396	Up
1.08E+08	LINC02848	long intergenic non-protein coding RNA 2848	2.481	3.013	Up
340252	ZNF680	zinc finger protein 680	0.548	1.359	Up
7697	ZNF138	zinc finger protein 138	0.619	1.536	Up
441242	LINC03006	long intergenic non-protein coding RNA 3006	1.715	5.281	Up
643253	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1	1.721	7.485	Up
2990	GUSB	glucuronidase beta	0.579	2.53	Up
285908	LINC00174	long intergenic non-protein coding RNA 174	2.295	3.122	Up
1E+08	LINC03011	long intergenic non-protein coding RNA 3011	1.885	3.842	Up
154881	KCTD7	potassium channel tetramerization domain containing 7	1.617	9.188	Up
644794	LINC02604	long intergenic non-protein coding RNA 2604	2.147	2.747	Up
64940	STAG3L4	stromal antigen 3-like 4 (pseudogene)	0.934	2.143	Up
26053	AUTS2	activator of transcription and developmental regulator AUTS2	0.984	1.325	Up
378108	TRIM74	tripartite motif containing 74	1.243	2.351	Up
1E+08	LOC100101148	FKBP prolyl isomerase 6 pseudogene	1.377	1.385	Up
442578	STAG3L3	stromal antigen 3-like 3 (pseudogene)	0.992	1.738	Up
654816	NCF1B	neutrophil cytosolic factor 1B pseudogene	1.467	4.981	Up
8468	FKBP6	FKBP prolyl isomerase family member 6 (inactive)	1.37	1.319	Up
9569	GTF2IRD1	GTF2I repeat domain containing 1	1.497	3.449	Up
653361	NCF1	neutrophil cytosolic factor 1	1.581	3.159	Up
84163	GTF2IRD2	GTF2I repeat domain containing 2	0.449	1.319	Up
442582	STAG3L2	stromal antigen 3-like 2 (pseudogene)	0.966	1.623	Up
729438	CASTOR2	cytosolic arginine sensor for mTORC1 subunit 2	1.269	2.685	Up
389524	GTF2IRD2B	GTF2I repeat domain containing 2B	0.347	1.449	Up
654817	NCF1C	neutrophil cytosolic factor 1C pseudogene	1.48	3.413	Up
1.08E+08	LOC107986710	uncharacterized LOC107986710	0.78	1.731	Up
54441	STAG3L1	stromal antigen 3-like 1 (pseudogene)	1.108	2.01	Up
375593	TRIM73	tripartite motif containing 73	1.5	1.371	Up
155400	NSUN5P1	NSUN5 pseudogene 1	1.058	3.136	Up
5387	PMS2P3	PMS1 homolog 2, mismatch repair system component pseudogene 3	0.966	1.566	Up
57414	RHBDD2	rhomboid domain containing 2	1.257	14.818	Up
1.01E+08	SPDYE18	speedy/RINGO cell cycle regulator family member E18	2.066	2.608	Up
57639	CCDC146	coiled-coil domain containing 146	2.048	3.97	Up
5782	PTPN12	protein tyrosine phosphatase non-receptor type 12	0.896	3.427	Up
1.01E+08	APTR	Alu-mediated CDKN1A/p21 transcriptional regulator	0.677	1.728	Up
222194	RSBN1L	round spermatid basic protein 1 like	0.782	4.394	Up
85025	TMEM60	transmembrane protein 60	0.687	3.599	Up
948	CD36	CD36 molecule	1.933	3.121	Up

9988	DMTF1	cyclin D binding myb like transcription factor 1	0.404	1.649	Up
11257	TP53TG1	TP53 target 1	1.492	5.632	Up
54677	CROT	carnitine O-octanoyltransferase	0.593	1.816	Up
5244	ABCB4	ATP binding cassette subfamily B member 4	1.051	2.323	Up
5243	ABCB1	ATP binding cassette subfamily B member 1	1.706	2.194	Up
55972	SLC25A40	solute carrier family 25 member 40	0.664	3.314	Up
53616	ADAM22	ADAM metallopeptidase domain 22	1.955	3.874	Up
5218	CDK14	cyclin dependent kinase 14	3.113	4.224	Up
8321	FZD1	frizzled class receptor 1	2.393	4.457	Up
5189	PEX1	peroxisomal biogenesis factor 1	0.382	1.391	Up
84060	RBM48	RNA binding motif protein 48	0.6	3.827	Up
2791	GNG11	G protein subunit gamma 11	3.069	2.184	Up
1.08E+08	LOC107986820	uncharacterized LOC107986820	1.272	1.794	Up
5166	PDK4	pyruvate dehydrogenase kinase 4	9.539	10.659	Up
4951	OCM2	oncomodulin 2	3.571	1.608	Up
25851	TECPR1	tectonin beta-propeller repeat containing 1	1.612	10.063	Up
25798	BRI3	brain protein I3	0.615	2.978	Up
84124	ZNF394	zinc finger protein 394	0.455	2.086	Up
221786	FAM200A	family with sequence similarity 200 member A	0.493	2.041	Up
221785	ZSCAN25	zinc finger and SCAN domain containing 25	0.298	1.886	Up
89122	TRIM4	tripartite motif containing 4	0.907	7.962	Up
7586	ZKSCAN1	zinc finger with KRAB and SCAN domains 1	0.641	1.536	Up
7551	ZNF3	zinc finger protein 3	0.828	5.026	Up
245812	CNPY4	canopy FGF signaling regulator 4	1.401	6.57	Up
79690	GAL3ST4	galactose-3-O-sulfotransferase 4	3.104	6.794	Up
221914	GPC2	glypican 2	2.456	2.778	Up
352954	CASTOR3P	CASTOR family member 3, pseudogene	1.197	8.974	Up
1.08E+08	LOC107986828		0.986	1.311	Up
1.02E+08	STAG3L5P-PVRIG2P-PILRB	STAG3L5P-PVRIG2P-PILRB readthrough	1.278	1.577	Up
1.02E+08	PVRIG2P	PVR related immunoglobulin domain containing 2, pseudogene	0.978	1.593	Up
29992	PILRA	paired immunoglobin like type 2 receptor alpha	2.729	3.552	Up
402573	SPACDR	sperm acrosome developmental regulator	1.806	1.334	Up
1E+08	SAP25	Sin3A associated protein 25	2.521	4.732	Up
4034	LRCH4	leucine rich repeats and calponin homology domain containing 4	0.802	3.452	Up
1.02E+08	ZASP		1.065	3.914	Up
26261	FBXO24	F-box protein 24	2.29	1.741	Up
5118	PCOLCE	procollagen C-endopeptidase enhancer	1.633	1.569	Up
64599	GIGYF1	GRB10 interacting GYF protein 1	1.047	2.205	Up
2050	EPHB4	EPH receptor B4	1.423	3.304	Up
56996	SLC12A9	solute carrier family 12 member 9	0.478	1.644	Up
24146	CLDN15	claudin 15	1.833	3.242	Up
1.01E+08	LOC100630923	LOC100289561-PRKRIP1 readthrough	0.553	1.382	Up
1E+08	RASA4B	RAS p21 protein activator 4B	1.301	4.069	Up
1.08E+08	UPK3BL2	uroplakin 3B like 2	1.481	1.926	Up

10156	RASA4	RAS p21 protein activator 4	1.294	4.204	Up
1E+08	UPK3BL1	uroplakin 3B like 1	1.521	1.942	Up
1E+08	RASA4DP	RAS p21 protein activator 4D, pseudogene	1.264	4.519	Up
349152	DPY19L2P2	DPY19L2 pseudogene 2	1.093	4.793	Up
6733	SRPK2	SRSF protein kinase 2	0.416	2.657	Up
222255	ATXN7L1	ataxin 7 like 1	2.559	28.451	Up
222256	CDHR3	cadherin related family member 3	2.593	11.003	Up
6856	SYPL1	synaptophysin like 1	0.643	1.733	Up
5294	PIK3CG	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	0.671	2.791	Up
26959	HBP1	HMG-box transcription factor 1	1.389	8.4	Up
10466	COG5	component of oligomeric golgi complex 5	0.369	1.468	Up
1.02E+08	CBLL1-AS1	CBLL1 antisense RNA 1	1.852	5.025	Up
79872	CBLL1	Cbl proto-oncogene like 1	0.68	2.86	Up
168451	THAP5	THAP domain containing 5	0.346	1.331	Up
11179	ZNF277	zinc finger protein 277	1.233	3.19	Up
8976	WASL	WASP like actin nucleation promoting factor	0.52	2.772	Up
25913	POT1	protection of telomeres 1	0.552	1.652	Up
401398	POT1-AS1	POT1 antisense RNA 1	2.004	3.799	Up
402483	LINC01000	long intergenic non-protein coding RNA 1000	1.598	1.793	Up
23382	AHCYL2	adenosylhomocysteinase like 2	0.781	6.664	Up
4899	NRF1	nuclear respiratory factor 1	0.438	1.557	Up
7328	UBE2H	ubiquitin conjugating enzyme E2 H	0.471	2.195	Up
4289	MKLN1	muskelin 1	0.321	1.762	Up
91584	PLXNA4	plexin A4	2.393	2.419	Up
29062	WDR91	WD repeat domain 91	0.577	1.995	Up
254048	UBN2	ubinuclein 2	0.718	1.788	Up
90956	ADCK2	aarF domain containing kinase 2	0.564	2.217	Up
57189	DENND11	DENN domain containing 11	0.659	3.374	Up
285962	WEE2-AS1	WEE2 antisense RNA 1	2.095	2.823	Up
54429	TAS2R5	taste 2 receptor member 5	3.242	2.868	Up
23601	CLEC5A	C-type lectin domain containing 5A	3.431	4.905	Up
8972	MGAM	maltase-glucoamylase	4.165	2.148	Up
1.05E+08	LOC105375539	uncharacterized LOC105375539	2.964	4.897	Up
28619	TRBV3-1	T cell receptor beta variable 3-1	0.767	2.112	Up
28614	TRBV5-1	T cell receptor beta variable 5-1	0.75	1.306	Up
28597	TRBV7-1	T cell receptor beta variable 7-1 (non-functional)	2.216	1.781	Up
28582	TRBV11-1	T cell receptor beta variable 11-1	1.056	3.199	Up
28602	TRBV6-5	T cell receptor beta variable 6-5	0.915	2.178	Up
1.08E+08	LOC107986855	uncharacterized LOC107986855	0.747	1.934	Up
1.05E+08	LOC105379749	uncharacterized LOC105379749	1.81	6.668	Up
28601	TRBV6-6	T cell receptor beta variable 6-6	0.959	2.623	Up
28610	TRBV5-5	T cell receptor beta variable 5-5	0.937	1.903	Up
28600	TRBV6-7	T cell receptor beta variable 6-7 (non-functional)	2.171	1.734	Up
28608	TRBV5-7	T cell receptor beta variable 5-7 (non-functional)	1.397	1.57	Up
28589	TRBV7-9	T cell receptor beta variable 7-9	1.05	2.412	Up
28583	TRBV10-3	T cell receptor beta variable 10-3	0.959	2.477	Up
28577	TRBV12-3	T cell receptor beta variable 12-3	1.108	2.484	Up

28576	TRBV12-4	T cell receptor beta variable 12-4	1.126	1.592	Up
28573	TRBV14	T cell receptor beta variable 14	1.505	4.676	Up
28572	TRBV15	T cell receptor beta variable 15	0.731	1.355	Up
28569	TRBV18	T cell receptor beta variable 18	1.349	3.372	Up
28568	TRBV19	T cell receptor beta variable 19	1.64	5.827	Up
28566	TRBV21-1	T cell receptor beta variable 21-1 (pseudogene)	1.66	7.119	Up
28564	TRBV23-1	T cell receptor beta variable 23-1 (non-functional)	2.438	2.598	Up
1E+08	MTRNR2L6	MT-RNR2 like 6 (pseudogene)	2.069	3.549	Up
5644	PRSS1	serine protease 1	1.441	6.407	Up
28558	TRBV29-1	T cell receptor beta variable 29-1	1.435	6.32	Up
28637	TRBD1	T cell receptor beta diversity 1	1.185	3.443	Up
28633	TRBJ1-3	T cell receptor beta joining 1-3	1.51	2.312	Up
28632	TRBJ1-4	T cell receptor beta joining 1-4	1.259	3.16	Up
28630	TRBJ1-6	T cell receptor beta joining 1-6	1.913	6.824	Up
28639	TRBC1	T cell receptor beta constant 1	0.792	1.919	Up
28628	TRBJ2-2	T cell receptor beta joining 2-2	0.671	1.442	Up
28624	TRBJ2-5	T cell receptor beta joining 2-5	0.632	1.535	Up
28623	TRBJ2-6	T cell receptor beta joining 2-6	0.867	1.775	Up
28622	TRBJ2-7	T cell receptor beta joining 2-7	0.674	1.573	Up
28638	TRBC2	T cell receptor beta constant 2	0.675	1.767	Up
28557	TRBV30	T cell receptor beta variable 30	1.051	2.326	Up
1.05E+08	LOC105375541	uncharacterized LOC105375541	1.148	2.146	Up
2051	EPHB6	EPH receptor B6	1.086	4.321	Up
285965	EPHA1-AS1	EPHA1 antisense RNA 1	1.432	1.346	Up
27010	TPK1	thiamin pyrophosphokinase 1	0.475	1.386	Up
136051	ZNF786	zinc finger protein 786	0.708	3.231	Up
155054	ZNF425	zinc finger protein 425	1.92	10.395	Up
57541	ZNF398	zinc finger protein 398	0.389	2.631	Up
7988	ZNF212	zinc finger protein 212	0.438	2.354	Up
155060	LOC155060	AI894139 pseudogene	1.698	2.211	Up
168544	ZNF467	zinc finger protein 467	2.474	7.309	Up
23145	SSPOP	SCO-spondin, pseudogene	4.075	1.603	Up
643641	ZNF862	zinc finger protein 862	1.651	9.518	Up
401431	ATP6V0E2-AS1	ATP6V0E2 antisense RNA 1	2.101	7.928	Up
1.05E+08	REPIN1-AS1	REPIN1 antisense RNA 1	1.002	2.707	Up
1.08E+08	LOC107986859		2.566	4.478	Up
728743	LOC728743	zinc finger domain-containing protein LOC728743	2.076	20.852	Up
155038	GIMAP8	GTPase, IMAP family member 8	1.147	5.744	Up
168537	GIMAP7	GTPase, IMAP family member 7	0.781	3.122	Up
55303	GIMAP4	GTPase, IMAP family member 4	1.172	4.239	Up
474344	GIMAP6	GTPase, IMAP family member 6	1.351	9.522	Up
26157	GIMAP2	GTPase, IMAP family member 2	2.615	15.317	Up
1.01E+08	GIMAP1-GIMAP5	GIMAP1-GIMAP5 readthrough	1.16	5.726	Up
170575	GIMAP1	GTPase, IMAP family member 1	2.638	44.44	Up
55340	GIMAP5	GTPase, IMAP family member 5	0.974	3.379	Up
55365	TMEM176A	transmembrane protein 176A	3.089	1.633	Up
26	AOC1	amine oxidase copper containing 1	5.963	5.501	Up

285973	ATG9B	autophagy related 9B	2.012	30.565	Up
9311	ASIC3	acid sensing ion channel subunit 3	2.059	3.757	Up
116988	AGAP3	ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	1.027	2.594	Up
1.14E+08	H2BK1	H2B.K variant histone 1	2.245	3.635	Up
6604	SMARCD3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	1.485	5.064	Up
349136	WDR86	WD repeat domain 86	0.549	1.788	Up
1E+08	WDR86-AS1	WDR86 antisense RNA 1	3.946	7.035	Up
51422	PRKAG2	protein kinase AMP-activated non-catalytic subunit gamma 2	0.451	2.993	Up
1.01E+08	PRKAG2-AS1	PRKAG2 antisense RNA 1	1.066	3.977	Up
1E+08	LINC01003	long intergenic non-protein coding RNA 1003	1.216	3.757	Up
1E+08	PAXIP1-AS2	PAXIP1 antisense RNA 2	0.618	2.273	Up
202781	PAXIP1-DT	PAXIP1 divergent transcript	1.512	9.659	Up
140545	RNF32	ring finger protein 32	1.464	4.302	Up
64327	LMBR1	limb development membrane protein 1	0.435	1.968	Up
1.01E+08	PTPRN2-AS1	PTPRN2 antisense RNA 1	6.48	3.733	Up
57488	ESYT2	extended synaptotagmin 2	0.903	5.677	Up
26260	FBXO25	F-box protein 25	0.908	3.948	Up
1.02E+08	CLN8-AS1	CLN8 antisense RNA 1	1.467	7.35	Up
1.05E+08	LOC105377782	uncharacterized LOC105377782	3.929	2.453	Up
1E+08	MCPH1-DT	MCPH1 divergent transcript	1.08	1.457	Up
1.01E+08	MCPH1-AS1	MCPH1 antisense RNA 1	1.085	1.379	Up
1.05E+08	FAM85B	family with sequence similarity 85 member B	2.076	2.796	Up
286042	FAM86B3P	family with sequence similarity 86, member A pseudogene	1.269	2.019	Up
157285	PRAG1	PEAK1 related, kinase-activating pseudokinase 1	1.921	8.621	Up
137075	CLDN23	claudin 23	5.301	4.174	Up
79660	PPP1R3B	protein phosphatase 1 regulatory subunit 3B	0.918	2.789	Up
8658	TNKS	tankyrase	0.951	4.432	Up
286046	XKR6	XK related 6	0.978	2.18	Up
252969	NEIL2	nei like DNA glycosylase 2	0.477	2.039	Up
1508	CTSB	cathepsin B	1.22	3.864	Up
85002	FAM86B1	family with sequence similarity 86 member B1	0.895	1.895	Up
619423	FAM85A	family with sequence similarity 85 member A	1.928	2.482	Up
1.01E+08	FAM86B2-DT	FAM86B2 divergent transcript	2.076	20.487	Up
4481	MSR1	macrophage scavenger receptor 1	7.256	6.164	Up
57509	MTUS1	microtubule associated scaffold protein 1	1.715	2.117	Up
5108	PCM1	pericentriolar material 1	0.695	1.427	Up
427	ASAH1	N-acylsphingosine amidohydrolase 1	1.346	7.934	Up
55790	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1	3.007	34.866	Up
55174	INTS10	integrator complex subunit 10	0.846	4.428	Up
4023	LPL	lipoprotein lipase	7.705	13.641	Up
2675	GFRA2	GDNF family receptor alpha 2	6.011	3.184	Up

55124	PIWIL2	piwi like RNA-mediated gene silencing 2	2.454	1.573	Up
10174	SORBS3	sorbin and SH3 domain containing 3	1.006	2.279	Up
8793	TNFRSF10D	TNF receptor superfamily member 10d	1.353	1.762	Up
389641	TNFRSF10A-DT	TNFRSF10A divergent transcript	0.844	1.396	Up
91782	CHMP7	charged multivesicular body protein 7	1.099	3.465	Up
1.05E+08	LOC105379326		3.412	15.971	Up
10863	ADAM28	ADAM metallopeptidase domain 28	1.481	1.667	Up
4747	NEFL	neurofilament light chain	1.567	2.348	Up
80005	DOCK5	dedicator of cytokinesis 5	2.332	3.876	Up
157489	SDAD1P1	SDA1 domain containing 1 pseudogene 1	1.404	4.396	Up
1.05E+08	LOC105379337		1.982	2.478	Up
1808	DPYSL2	dihydropyrimidinase like 2	1.367	6.028	Up
23087	TRIM35	tripartite motif containing 35	0.466	1.791	Up
1191	CLU	clusterin	0.654	1.359	Up
51435	SCARA3	scavenger receptor class A member 3	0.482	1.652	Up
55893	ZNF395	zinc finger protein 395	1.054	6.518	Up
51669	SARAF	store-operated calcium entry associated regulatory factor	2.056	13.922	Up
23484	LEPROTL1	leptin receptor overlapping transcript like 1	1.869	10.624	Up
619373	MBOAT4	membrane bound O-acyltransferase domain containing 4	2.434	4.692	Up
1.05E+08	LOC105379362	uncharacterized LOC105379362	0.996	1.7	Up
79845	RNF122	ring finger protein 122	1.075	2.511	Up
11160	ERLIN2	ER lipid raft associated 2	0.38	1.724	Up
23259	DDHD2	DDHD domain containing 2	0.468	2.443	Up
2260	FGFR1	fibroblast growth factor receptor 1	0.826	1.637	Up
59339	PLEKHA2	pleckstrin homology domain containing A2	0.569	2.47	Up
8754	ADAM9	ADAM metallopeptidase domain 9	1.574	2.241	Up
286	ANK1	ankyrin 1	1.333	2.588	Up
7994	KAT6A	lysine acetyltransferase 6A	1.132	5.49	Up
1.05E+08	KAT6A-AS1	KAT6A antisense RNA 1	1.247	2.224	Up
1.08E+08	LOC107986939	uncharacterized LOC107986939	1.973	4.864	Up
10947	AP3M2	adaptor related protein complex 3 subunit mu 2	0.827	2.363	Up
3551	IKBKB	inhibitor of nuclear factor kappa B kinase subunit beta	0.438	1.328	Up
6575	SLC20A2	solute carrier family 20 member 2	0.606	2.936	Up
81790	RNF170	ring finger protein 170	0.702	4.304	Up
2339	FNTA	farnesyltransferase, CAAX box, alpha	0.446	1.846	Up
138050	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase	0.894	2.181	Up
115294	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	1.341	5.316	Up
1.03E+08	PCMTD1-DT	PCMTD1 divergent transcript	1.554	4.935	Up
9821	RB1CC1	RB1 inducible coiled-coil 1	0.815	6.338	Up
6224	RPS20	ribosomal protein S20	0.959	1.9	Up
5324	PLAG1	PLAG1 zinc finger	1.894	7.274	Up
137886	UBXN2B	UBX domain protein 2B	0.442	1.355	Up
1.05E+08	LOC105375938	uncharacterized LOC105375938	1.477	1.738	Up
444	ASPH	aspartate beta-hydroxylase	1.519	8.795	Up

5150	PDE7A	phosphodiesterase 7A	1.354	10.53	Up
1.08E+08	LOC107986948		1.553	5.894	Up
137872	ADHFE1	alcohol dehydrogenase iron containing 1	2.347	6.767	Up
4603	MYBL1	MYB proto-oncogene like 1	0.978	1.687	Up
1.01E+08	C8orf44-SGK3	C8orf44-SGK3 readthrough	0.544	1.762	Up
23678	SGK3	serum/glucocorticoid regulated kinase family member 3	0.547	1.812	Up
157777	MCMDC2	minichromosome maintenance domain containing 2	1.383	6.985	Up
641638	SNHG6	small nucleolar RNA host gene 6	1.488	7.585	Up
10565	ARFGEF1	ADP ribosylation factor guanine nucleotide exchange factor 1	0.378	1.41	Up
5569	PKIA	cAMP-dependent protein kinase inhibitor alpha	0.791	3.59	Up
619279	ZNF704	zinc finger protein 704	4.317	10.685	Up
2167	FABP4	fatty acid binding protein 4	10.662	13.235	Up
245972	ATP6V0D2	ATPase H+ transporting V0 subunit d2	7.864	6.45	Up
1.05E+08	WWP1-AS1	WWP1 antisense RNA 1	3.03	6.427	Up
11059	WWP1	WW domain containing E3 ubiquitin protein ligase 1	0.663	7.062	Up
51115	RMDN1	regulator of microtubule dynamics 1	0.296	1.41	Up
137392	CIBAR1	CBY1 interacting BAR domain containing 1	0.576	1.477	Up
54704	PDP1	pyruvate dehydrogenase phosphatase catalytic subunit 1	0.882	5.767	Up
79666	PLEKHF2	pleckstrin homology and FYVE domain containing 2	0.513	2.925	Up
7381	UQCRB	ubiquinol-cytochrome c reductase binding protein	0.976	1.907	Up
9791	PTDSS1	phosphatidylserine synthase 1	0.809	4.343	Up
6383	SDC2	syndecan 2	5.432	21.645	Up
10404	CPQ	carboxypeptidase Q	1.005	4.724	Up
6156	RPL30	ribosomal protein L30	1.136	2.445	Up
1.05E+08	VPS13B-DT	VPS13B divergent transcript	1.697	1.528	Up
26986	PABPC1	poly(A) binding protein cytoplasmic 1	1.721	13.488	Up
1.02E+08	MIR7705	microRNA 7705	1.714	7.835	Up
79870	BAALC	BAALC binder of MAP3K1 and KLF4	4.639	4.185	Up
55074	OXR1	oxidation resistance 1	1.806	42.263	Up
284	ANGPT1	angiopoietin 1	2.745	1.457	Up
3646	EIF3E	eukaryotic translation initiation factor 3 subunit E	0.838	1.87	Up
9166	EBAG9	estrogen receptor binding site associated antigen 9	0.54	1.674	Up
7227	TRPS1	transcriptional repressor GATA binding 1	0.604	2.481	Up
1.12E+08	LOC112268030	uncharacterized LOC112268030	1.982	1.84	Up
64798	DEPTOR	DEP domain containing MTOR interacting protein	2.21	5.411	Up
22882	ZHX2	zinc fingers and homeoboxes 2	0.589	2.303	Up
114907	FBXO32	F-box protein 32	3.163	14.48	Up
1.02E+08	RNF139-DT	RNF139 divergent transcript	1.381	1.497	Up
9788	MTSS1	MTSS I-BAR domain containing 1	2.652	40.131	Up
137209	ZNF572	zinc finger protein 572	1.044	2.172	Up
1.05E+08	LOC105375748		5.231	4.001	Up
1.08E+08	LOC107986974		2.634	2.992	Up
1E+08	LINC00861	long intergenic non-protein coding RNA 861	2.706	16.862	Up

5462	POU5F1B	POU class 5 homeobox 1B	3.104	3.08	Up
1.02E+08	LINC00824	long intergenic non-protein coding RNA 824	2.157	1.839	Up
23639	DNAAF11	dynein axonemal assembly factor 11	2.764	2.28	Up
137835	TMEM71	transmembrane protein 71	1.202	2.738	Up
10397	NDRG1	N-myc downstream regulated 1	0.602	3.642	Up
359809	PEG13	paternally expressed 13	3.583	24.251	Up
203062	TSNARE1	t-SNARE domain containing 1	0.935	1.687	Up
51337	THEM6	thioesterase superfamily member 6	1.064	8.272	Up
2738	GLI4	GLI family zinc finger 4	1.259	5.319	Up
1.01E+08	MINCR	MYC-induced long non-coding RNA	2.246	8.971	Up
79943	ZNF696	zinc finger protein 696	0.848	2.773	Up
78998	RHPN1-AS1	RHPN1 antisense RNA 1 (head to head)	1.756	1.466	Up
114822	RHPN1	rhophilin Rho GTPase binding protein 1	1.391	4.081	Up
1E+08	LOC100310756	uncharacterized LOC100310756	1.426	8.311	Up
642475	MROH6	maestro heat like repeat family member 6	2.001	3.631	Up
1936	EEF1D	eukaryotic translation elongation factor 1 delta	0.792	1.616	Up
9831	ZNF623	zinc finger protein 623	0.968	5.725	Up
286075	ZNF707	zinc finger protein 707	0.524	2.867	Up
286076	LINC02878	long intergenic non-protein coding RNA 2878	2.213	1.333	Up
340371	NRBP2	nuclear receptor binding protein 2	1.003	2.492	Up
83481	EPPK1	epiplakin 1	2.649	7.396	Up
5339	PLEC	plectin	1.047	1.304	Up
50626	ZFTRAF1	zinc finger TRAF-type containing 1	0.396	1.629	Up
90987	ZNF251	zinc finger protein 251	1.401	7.916	Up
80778	ZNF34	zinc finger protein 34	0.731	2.462	Up
340385	ZNF517	zinc finger protein 517	1.294	7.215	Up
1E+08	LOC100130027	uncharacterized LOC100130027	1.661	7.017	Up
7553	ZNF7	zinc finger protein 7	0.737	2.958	Up
58500	ZNF250	zinc finger protein 250	1.005	6.586	Up
7564	ZNF16	zinc finger protein 16	0.412	1.528	Up
286101	ZNF252P	zinc finger protein 252, pseudogene	1.003	8.136	Up
81704	DOCK8	dedicator of cytokinesis 8	0.798	7.33	Up
1.12E+08	DOCK8-AS2	DOCK8 antisense RNA 2	0.878	5.263	Up
6595	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	1.014	4.682	Up
169792	GLIS3	GLIS family zinc finger 3	2.11	2.578	Up
6505	SLC1A1	solute carrier family 1 member 1	5.087	12.873	Up
55064	SPATA6L	spermatogenesis associated 6 like	1.489	4.146	Up
403313	PLPP6	phospholipid phosphatase 6	1.565	11.623	Up
1.02E+08	CDC37L1-DT	CDC37L1 divergent transcript	2.308	2.413	Up
55664	CDC37L1	cell division cycle 37 like 1, HSP90 cochaperone	0.658	4.523	Up
6013	RLN1	relaxin 1	2.082	2.552	Up
6019	RLN2	relaxin 2	1.914	1.935	Up
57589	RIC1	RIC1 homolog, RAB6A GEF complex partner 1	0.503	2.99	Up
79956	ERMP1	endoplasmic reticulum metallopeptidase 1	1.615	9.569	Up
158358	KIAA2026	KIAA2026	0.781	1.729	Up

115426	UHRF2	ubiquitin like with PHD and ring finger domains 2	1.033	9.08	Up
23081	KDM4C	lysine demethylase 4C	0.6	6.997	Up
158326	FREM1	FRAS1 related extracellular matrix 1	3.87	2.181	Up
1.05E+08	LOC105375981		0.709	1.629	Up
6619	SNAPC3	small nuclear RNA activating complex polypeptide 3	0.534	3.456	Up
11168	PSIP1	PC4 and SRSF1 interacting protein 1	0.637	2.887	Up
123	PLIN2	perilipin 2	1.049	6.073	Up
55667	DENND4C	DENN domain containing 4C	0.832	3.553	Up
340485	ACER2	alkaline ceramidase 2	1.266	7.288	Up
4300	MLLT3	MLLT3 super elongation complex subunit	1.32	9.158	Up
401494	HACD4	3-hydroxyacyl-CoA dehydratase 4	0.963	1.657	Up
79817	MOB3B	MOB kinase activator 3B	2.039	2.695	Up
203228	C9orf72	C9orf72-SMCR8 complex subunit	0.903	3.992	Up
10210	TOPORS	TOP1 binding arginine/serine rich protein, E3 ubiquitin ligase	0.566	5.922	Up
1E+08	SMIM27	small integral membrane protein 27	1.074	3.492	Up
4799	NFX1	nuclear transcription factor, X-box binding 1	0.613	5.06	Up
360	AQP3	aquaporin 3 (Gill blood group)	2.926	21.799	Up
11191	PTENP1	phosphatase and tensin homolog pseudogene 1	0.676	2.763	Up
54926	UBE2R2	ubiquitin conjugating enzyme E2 R2	0.753	6.753	Up
318	NUDT2	nudix hydrolase 2	0.639	1.986	Up
84688	C9orf24	chromosome 9 open reading frame 24	1.987	1.929	Up
3590	IL11RA	interleukin 11 receptor subunit alpha	1.797	5.787	Up
80256	ATOSB	atos homolog B	0.983	5.268	Up
7169	TPM2	tropomyosin 2	3.54	4.139	Up
4882	NPR2	natriuretic peptide receptor 2	1.056	1.995	Up
26206	SPAG8	sperm associated antigen 8	1.279	1.309	Up
51754	TMEM8B	transmembrane protein 8B	1.626	9.955	Up
8434	RECK	reversion inducing cysteine rich protein with kazal motifs	1.084	10.985	Up
152006	RNF38	ring finger protein 38	1.177	9.765	Up
1.01E+08	EBLN3P	endogenous Bornavirus like nucleoprotein 3, pseudogene	0.626	1.802	Up
84186	ZCCHC7	zinc finger CCHC-type containing 7	0.831	4.352	Up
64425	POLR1E	RNA polymerase I subunit E	0.552	2.083	Up
26267	FBXO10	F-box protein 10	1.645	4.751	Up
158234	TRMT10B	tRNA methyltransferase 10B	1	2.549	Up
158228	FAM201A	family with sequence similarity 201 member A	1.877	1.677	Up
401509	ZNF658B	zinc finger protein 658B (pseudogene)	0.997	1.868	Up
1.05E+08	LOC105376046		3.695	5.446	Up
1.08E+08	LOC107986991		1.185	1.63	Up
1.08E+08	LOC107986997	uncharacterized LOC107986997	1.1	2.819	Up
1E+08	FRG1HP	FSHD region gene 1 family member H, pseudogene	1.228	16.495	Up
595135	PGM5P2	phosphoglucomutase 5 pseudogene 2	1.262	2.94	Up
1.08E+08	LOC107984035	uncharacterized LOC107984035	0.965	1.318	Up
1.08E+08	LOC107984126	zinc finger protein 658B-like	1.205	1.322	Up
1E+08	LOC100132249	uncharacterized LOC100132249	1.779	1.862	Up

642236	FRG1JP	FSHD region gene 1 family member J, pseudogene	0.775	1.83	Up
1.08E+08	LOC107987072		1.101	1.493	Up
26149	ZNF658	zinc finger protein 658	1.089	1.969	Up
286380	FOXD4L3	forkhead box D4 like 3	4.29	1.767	Up
138241	C9orf85	chromosome 9 open reading frame 85	0.65	1.334	Up
216	ALDH1A1	aldehyde dehydrogenase 1 family member A1	2.022	2.951	Up
301	ANXA1	annexin A1	0.764	1.911	Up
54981	NMRK1	nicotinamide riboside kinase 1	0.815	1.719	Up
5125	PCSK5	proprotein convertase subtilisin/kexin type 5	2.138	12.148	Up
2776	GNAQ	G protein subunit alpha q	0.482	2.354	Up
7091	TLE4	TLE family member 4, transcriptional corepressor	0.747	1.328	Up
7088	TLE1	TLE family member 1, transcriptional corepressor	2.699	8.051	Up
414328	IDNK	IDNK gluconokinase	0.659	1.978	Up
80318	GKAP1	G kinase anchoring protein 1	1.569	5.787	Up
23287	AGTPBP1	ATP/GTP binding carboxypeptidase 1	1.297	13.389	Up
1.03E+08	LOC102724057	replaced by ID 23287	1.788	1.312	Up
389765	LOC389765	kinesin family member 27 pseudogene	1.885	2.599	Up
51280	GOLM1	golgi membrane protein 1	0.512	1.858	Up
2619	GAS1	growth arrest specific 1	1.036	1.335	Up
1514	CTSL	cathepsin L	1.87	5.092	Up
23552	CDK20	cyclin dependent kinase 20	0.582	1.452	Up
10507	SEMA4D	semaphorin 4D	1.112	7.232	Up
6850	SYK	spleen associated tyrosine kinase	2.596	9.636	Up
89846	FGD3	FYVE, RhoGEF and PH domain containing 3	1.319	13.964	Up
1.02E+08	LOC101927954	uncharacterized LOC101927954	1.178	7.76	Up
203328	SUSD3	sushi domain containing 3	0.963	2.423	Up
1.08E+08	LOC107987097	uncharacterized LOC107987097	1.962	3.062	Up
5253	PHF2	PHD finger protein 2	0.991	3.839	Up
169841	ZNF169	zinc finger protein 169	0.698	4.437	Up
2203	FBP1	fructose-bisphosphatase 1	3.924	9.236	Up
5727	PTCH1	patched 1	2.116	7.908	Up
1.01E+08	LOC100507346	uncharacterized LOC100507346	1.869	2.052	Up
1E+08	ERCC6L2-AS1	ERCC6L2 antisense RNA 1	1.245	1.636	Up
375748	ERCC6L2	ERCC excision repair 6 like 2	0.92	4.104	Up
22927	HABP4	hyaluronan binding protein 4	1.167	17.063	Up
8555	CDC14B	cell division cycle 14B	1.681	7.325	Up
22869	ZNF510	zinc finger protein 510	1.232	14.229	Up
158431	ZNF782	zinc finger protein 782	1.135	7.027	Up
57653	SUGT1P4-STRA6LP-CCDC180	SUGT1P4-STRA6LP-CCDC180 readthrough	1.92	3.35	Up
1E+08	SUGT1P4-STRA6LP	SUGT1P4-STRA6LP readthrough	1.7	1.729	Up
1E+08	CCDC180	coiled-coil domain containing 180	2.092	3.228	Up
7507	XPA	XPA, DNA damage recognition and repair factor	0.332	1.543	Up
1.12E+08	LOC112268051		2.301	2.486	Up
55363	HEMGN	hemogen	2.159	3.862	Up

10541	ANP32B	acidic nuclear phosphoprotein 32 family member B	0.711	2.736	Up
55357	TBC1D2	TBC1 domain family member 2	1.356	5.365	Up
79695	GALNT12	polypeptide N-acetylgalactosaminyltransferase 12	1.275	4.651	Up
91283	MSANTD3	Myb/SANT DNA binding domain containing 3	0.393	1.476	Up
7743	ZNF189	zinc finger protein 189	0.294	1.548	Up
116443	GRIN3A	glutamate ionotropic receptor NMDA type subunit 3A	1.397	2.552	Up
55335	NIPSNAP3B	nipsnap homolog 3B	1.347	1.633	Up
19	ABCA1	ATP binding cassette subfamily A member 1	1.621	1.421	Up
23446	SLC44A1	solute carrier family 44 member 1	0.861	8.6	Up
58499	ZNF462	zinc finger protein 462	1.397	1.665	Up
23731	TMEM245	transmembrane protein 245	1.09	9.792	Up
158399	ZNF483	zinc finger protein 483	1.11	1.644	Up
22949	PTGR1	prostaglandin reductase 1	3.537	4.663	Up
9991	PTBP3	polypyrimidine tract binding protein 3	0.464	1.439	Up
158405	KIAA1958	KIAA1958	0.572	2.83	Up
401548	SNX30	sorting nexin family member 30	1.673	21.472	Up
114987	WDR31	WD repeat domain 31	1.044	1.5	Up
81932	HDHD3	haloacid dehalogenase like hydrolase domain containing 3	0.533	3.346	Up
210	ALAD	aminolevulinate dehydratase	0.408	2.445	Up
5005	ORM2	orosomucoid 2	3.693	4.663	Up
80709	AKNA	AT-hook transcription factor	0.993	2.149	Up
25861	WHRN	whirlin	2.501	4.366	Up
944	TNFSF8	TNF superfamily member 8	0.892	1.604	Up
7099	TLR4	toll like receptor 4	3.627	9.107	Up
1955	MEGF9	multiple EGF like domains 9	0.87	5.666	Up
26190	FBXW2	F-box and WD repeat domain containing 2	0.541	1.306	Up
253039	CUTALP	cutA divalent cation tolerance like, pseudogene	0.685	3.733	Up
727	C5	complement C5	2.168	5.977	Up
2040	STOM	stomatin	0.536	2.146	Up
5742	PTGS1	prostaglandin-endoperoxide synthase 1	2.291	9.166	Up
23637	RABGAP1	RAB GTPase activating protein 1	0.718	6.804	Up
81571	MIR600HG	MIR600 host gene	0.885	1.954	Up
286205	SCAI	suppressor of cancer cell invasion	1.082	2.423	Up
5090	PBX3	PBX homeobox 3	1.265	9.782	Up
403341	ZBTB34	zinc finger and BTB domain containing 34	0.567	2.121	Up
1.03E+08	LOC102723566	uncharacterized LOC102723566	0.885	1.522	Up
203	AK1	adenylate kinase 1	1.644	3.451	Up
30815	ST6GALNAC6	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	0.691	3.724	Up
399665	EEIG1	estrogen-induced osteoclastogenesis regulator 1	1.613	4.307	Up
203245	NAIF1	nuclear apoptosis inducing factor 1	0.477	1.732	Up
1E+08	SLC25A25-AS1	SLC25A25 antisense RNA 1	1.648	1.712	Up
6709	SPTAN1	spectrin alpha, non-erythrocytic 1	0.955	3	Up
10444	ZER1	zyg-11 related cell cycle regulator	0.962	7.441	Up
883	KYAT1	kynurenine aminotransferase 1	1.023	3.288	Up
56262	LRRC8A	leucine rich repeat containing 8 VRAC subunit A	0.43	1.669	Up
389792	IER5L	immediate early response 5 like	3.516	8.505	Up
1.05E+08	IER5L-AS1	IER5L antisense RNA 1	7.909	7.096	Up
10868	USP20	ubiquitin specific peptidase 20	0.393	2.134	Up
10319	LAMC3	laminin subunit gamma 3	2.417	1.875	Up

286336	FAM78A	family with sequence similarity 78 member A	1.808	11.583	Up
84726	PRRC2B	proline rich coiled-coil 2B	1.494	6.084	Up
1.08E+08	LOC107987135		1.511	9.313	Up
84628	NTNG2	netrin G2	1.121	2.168	Up
11092	SPACA9	sperm acrosome associated 9	1.457	2.587	Up
5900	RALGDS	ral guanine nucleotide dissociation stimulator	0.725	1.5	Up
6834	SURF1	SURF1 cytochrome c oxidase assembly factor	0.79	2.116	Up
9719	ADAMTSL2	ADAMTS like 2	2.288	1.351	Up
1621	DBH	dopamine beta-hydroxylase	3.832	10.994	Up
138948	DBH-AS1	DBH antisense RNA 1	4.615	13.834	Up
1757	SARDH	sarcosine dehydrogenase	0.971	2.565	Up
8019	BRD3	bromodomain containing 3	0.882	2.698	Up
2219	FCN1	ficolin 1	5.507	7.032	Up
138311	DIPK1B	divergent protein kinase domain 1B	2.138	9.983	Up
84973	SNHG7	small nucleolar RNA host gene 7	2.781	26.578	Up
84960	CCDC183	coiled-coil domain containing 183	1.209	1.566	Up
1E+08	CCDC183-AS1	CCDC183 antisense RNA 1	1.103	1.881	Up
9022	CLIC3	chloride intracellular channel 3	4.623	10.415	Up
11253	MAN1B1	mannosidase alpha class 1B member 1	1.262	16.987	Up
1.02E+08	LOC101930307		2.643	3.379	Up
94107	TMEM203	transmembrane protein 203	0.548	1.384	Up
10811	NOXA1	NADPH oxidase activator 1	1.462	1.446	Up
375775	PNPLA7	patatin like phospholipase domain containing 7	1.429	3.972	Up
10771	ZMYND11	zinc finger MYND-type containing 11	0.473	1.883	Up
22982	DIP2C	disco interacting protein 2 homolog C	1.872	2.249	Up
22884	WDR37	WD repeat domain 37	0.916	5.737	Up
10276	NET1	neuroepithelial cell transforming 1	1.6	3.951	Up
1.05E+08	LOC105376381	uncharacterized LOC105376381	2.346	1.309	Up
79754	ASB13	ankyrin repeat and SOCS box containing 13	1.239	6.561	Up
5209	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	0.57	1.711	Up
399715	LINC02649	long intergenic non-protein coding RNA 2649	2.864	4.368	Up
399716	LINC02656	long intergenic non-protein coding RNA 2656	2.726	2.846	Up
5588	PRKCQ	protein kinase C theta	0.505	3.528	Up
1.02E+08	LINC02648	long intergenic non-protein coding RNA 2648	2.686	6.391	Up
57118	CAMK1D	calcium/calmodulin dependent protein kinase ID	0.649	2.218	Up
441549	CDNF	cerebral dopamine neurotrophic factor	2.671	8.856	Up
9397	NMT2	N-myristoyltransferase 2	1.589	26.555	Up
1.08E+08	LOC107984210	uncharacterized LOC107984210	1.765	7.181	Up
8029	CUBN	cubilin	2.283	3.85	Up
1.01E+08	VIM-AS1	VIM antisense RNA 1	0.932	4.171	Up
7431	VIM	vimentin	0.961	3.377	Up
338596	ST8SIA6	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6	1.396	1.992	Up
4360	MRC1	mannose receptor C-type 1	5.554	8.586	Up
84898	PLXDC2	plexin domain containing 2	4.071	13.155	Up
8028	MLLT10	MLLT10 histone lysine methyltransferase DOT1L cofactor	0.718	2.878	Up

64215	DNAJC1	DnaJ heat shock protein family (Hsp40) member C1	1.016	3.05	Up
1E+08	LOC100130992	uncharacterized LOC100130992	1.988	3.401	Up
648	BMI1	BMI1 proto-oncogene, polycomb ring finger	0.49	1.811	Up
220213	OTUD1	OTU deubiquitinase 1	1.865	45.993	Up
57584	ARHGAP21	Rho GTPase activating protein 21	1.12	2.471	Up
79896	THNSL1	threonine synthase like 1	1.762	9.068	Up
54518	APBB1IP	amyloid beta precursor protein binding family B member 1 interacting protein	1.057	9.509	Up
22852	ANKRD26	ankyrin repeat domain containing 26	1.379	1.61	Up
91452	ACBD5	acyl-CoA binding domain containing 5	0.435	1.617	Up
143098	MPP7	MAGUK p55 scaffold protein 7	3.134	18.509	Up
1.05E+08	LOC105376467	replaced by ID 143098	4.193	9.729	Up
51322	WAC	WW domain containing adaptor with coiled-coil	0.424	2.998	Up
220929	ZNF438	zinc finger protein 438	0.564	1.404	Up
6935	ZEB1	zinc finger E-box binding homeobox 1	1.264	6.209	Up
94134	ARHGAP12	Rho GTPase activating protein 12	1.591	11.599	Up
80314	EPC1	enhancer of polycomb homolog 1	0.736	4.427	Up
1.05E+08	LOC105376486		1.234	1.793	Up
3688	ITGB1	integrin subunit beta 1	0.634	2.713	Up
1.07E+08	SNORA86	small nucleolar RNA, H/ACA box 86	0.657	2.814	Up
1.02E+08	IATPR	ITGB1 adjacent tumor promoting lncRNA	1.824	3.802	Up
8829	NRP1	neuropilin 1	2.252	5.195	Up
57209	ZNF248	zinc finger protein 248	1.499	15.576	Up
219749	ZNF25	zinc finger protein 25	1.458	24.972	Up
7581	ZNF33A	zinc finger protein 33A	0.895	9.677	Up
7582	ZNF33B	zinc finger protein 33B	1.844	12.486	Up
1.05E+08	LOC105378268	uncharacterized LOC105378268	2.433	11.11	Up
55454	CSGALNACT2	chondroitin sulfate N-acetylgalactosaminyltransferase 2	0.442	2.416	Up
221002	RASGEF1A	RasGEF domain family member 1A	1.998	2.739	Up
642819	ZNF487	zinc finger protein 487	1.031	2.347	Up
220972	MARCHF8	membrane associated ring-CH-type finger 8	1.118	7.844	Up
1.05E+08	LOC105378286	uncharacterized LOC105378286	1.071	2.844	Up
93550	ZFAND4	zinc finger AN1-type containing 4	0.528	1.711	Up
653268	AGAP7P	ArfGAP with GTPase domain, ankyrin repeat and PH domain 7, pseudogene	1.864	2.399	Up
1.01E+08	ANTXRLP1	ANTXR like pseudogene 1	4.324	12.028	Up
57705	WDFY4	WDFY family member 4	2.045	2.264	Up
2074	ERCC6	ERCC excision repair 6, chromatin remodeling factor	0.73	2.612	Up
259230	SGMS1	sphingomyelin synthase 1	0.359	1.822	Up
221037	JMJD1C	jumonji domain containing 1C	0.934	1.351	Up
26091	HERC4	HECT and RLD domain containing E3 ubiquitin protein ligase 4	0.504	3.812	Up
80312	TET1	tet methylcytosine dioxygenase 1	2.257	5.396	Up
80201	HKDC1	hexokinase domain containing 1	5.639	17.593	Up
55506	MACROH2A2	macroH2A.2 histone	2.004	8.751	Up

219743	TYSND1	trypsin like peroxisomal matrix peptidase 1	1.539	14.106	Up
64106	NPFFR1	neuropeptide FF receptor 1	2.364	1.454	Up
55315	SLC29A3	solute carrier family 29 member 3	0.847	3.2	Up
64072	CDH23	cadherin related 23	3.466	9.705	Up
414152	C10orf105	chromosome 10 open reading frame 105	4.468	3.986	Up
64115	VSIR	V-set immunoregulatory receptor	1.209	4.221	Up
5660	PSAP	prosaposin	0.912	6.569	Up
9806	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2	1.557	13.905	Up
414245	DNAJC9-AS1	DNAJC9 and MRPS16 antisense RNA 1	1.66	4.324	Up
118491	CFAP70	cilia and flagella associated protein 70	1.18	1.376	Up
1.02E+08	PPP3CB-AS1	PPP3CB antisense RNA 1 (head to head)	0.704	3.558	Up
1.08E+08	LOC107984243	uncharacterized LOC107984243	2.18	3.669	Up
23053	ZSWIM8	zinc finger SWIM-type containing 8	0.722	1.94	Up
1.01E+08	ZSWIM8-AS1	ZSWIM8 antisense RNA 1	0.869	2.591	Up
818	CAMK2G	calcium/calmodulin dependent protein kinase II gamma	1.199	11.074	Up
283050	ZMIZ1-AS1	ZMIZ1 antisense RNA 1	2.591	2.841	Up
1.08E+08	LOC107984248	replaced by ID 729262	1.883	2.676	Up
729262	NUTM2B	NUT family member 2B	1.768	5.405	Up
283008	NUTM2E	NUT family member 2E	1.65	9.351	Up
81619	TSPAN14	tetraspanin 14	2.088	14.919	Up
79812	MMRN2	multimerin 2	2.914	1.855	Up
119385	AGAP11	ArfGAP with GTPase domain, ankyrin repeat and PH domain 11	1.645	1.362	Up
728118	NUTM2A	NUT family member 2A	1.579	5.14	Up
439994	LINC00863	long intergenic non-protein coding RNA 863	0.94	1.832	Up
728130	NUTM2D	NUT family member 2D	1.772	4.722	Up
9060	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	3.072	7.316	Up
5728	PTEN	phosphatase and tensin homolog	0.773	3.01	Up
3988	LIPA	lipase A, lysosomal acid type	0.83	3.878	Up
53354	PANK1	pantothenate kinase 1	1.642	3.485	Up
80351	TNKS2	tankyrase 2	0.548	3.394	Up
143282	FGFBP3	fibroblast growth factor binding protein 3	0.757	1.72	Up
3087	HHEX	hematopoietically expressed homeobox	1.35	1.744	Up
118924	FRA10AC1	FRA10A associated CGG repeat 1	0.404	1.383	Up
23232	TBC1D12	TBC1 domain family member 12	1.508	1.695	Up
728658	RPL13AP5	ribosomal protein L13a pseudogene 5	0.871	1.425	Up
10023	FRAT1	FRAT regulator of WNT signaling pathway 1	2.544	25.655	Up
23401	FRAT2	FRAT regulator of WNT signaling pathway 2	1.626	13.062	Up
64210	MMS19	MMS19 homolog, cytosolic iron-sulfur assembly component	0.394	2.754	Up
80019	UBTD1	ubiquitin domain containing 1	0.626	1.887	Up
118812	MORN4	MORN repeat containing 4	1.094	2.043	Up
60370	AVPI1	arginine vasopressin induced 1	1.635	5.256	Up
83742	MARVELD1	MARVEL domain containing 1	0.941	1.924	Up
118813	ZFYVE27	zinc finger FYVE-type containing 27	0.447	2.102	Up
84795	PYROXD2	pyridine nucleotide-disulphide oxidoreductase domain 2	1.851	3.147	Up

26507	CNNM1	cyclin and CBS domain divalent metal cation transport mediator 1	1.559	2.426	Up
1.02E+08	GOT1-DT	GOT1 divergent transcript	2.548	2.183	Up
51076	CUTC	cutC copper transporter	0.517	2.859	Up
1244	ABCC2	ATP binding cassette subfamily C member 2	2.184	2.759	Up
23268	DNMBP	dynamin binding protein	1.909	10.987	Up
1E+08	DNMBP-AS1	DNMBP antisense RNA 1	1.975	2.223	Up
7479	WNT8B	Wnt family member 8B	5.367	4.189	Up
25956	SEC31B	SEC31 homolog B, COPII coat complex component	2.026	2.683	Up
55719	SLF2	SMC5-SMC6 complex localization factor 2	1.158	8.256	Up
84445	LZTS2	leucine zipper tumor suppressor 2	1.509	12	Up
79955	PDZD7	PDZ domain containing 7	1.674	4.13	Up
81855	SFXN3	sideroflexin 3	1.794	15.783	Up
8945	BTRC	beta-transducin repeat containing E3 ubiquitin protein ligase	0.405	3.094	Up
27343	POLL	DNA polymerase lambda	0.952	8.14	Up
8861	LDB1	LIM domain binding 1	0.763	4.702	Up
1.01E+08	C10orf95-AS1	C10orf95 antisense RNA 1	0.582	1.853	Up
79946	C10orf95	chromosome 10 open reading frame 95	0.761	2.003	Up
51684	SUFU	SUFU negative regulator of hedgehog signaling	0.952	6.493	Up
81603	TRIM8	tripartite motif containing 8	1.337	9.033	Up
1.05E+08	LOC105378460	uncharacterized LOC105378460	1.463	6.561	Up
54838	WBP1L	WW domain binding protein 1 like	0.653	2.448	Up
54805	CNNM2	cyclin and CBS domain divalent metal cation transport mediator 2	0.416	2.614	Up
51063	CALHM2	calcium homeostasis modulator family member 2	2.361	10.996	Up
79991	STN1	STN1 subunit of CST complex	0.537	2.489	Up
85450	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein	0.5	3.106	Up
1.01E+08	ADD3-AS1	ADD3 antisense RNA 1	1.472	5.989	Up
120	ADD3	adducin 3	1.844	23.188	Up
4601	MXI1	MAX interactor 1, dimerization protein	1.626	28.774	Up
282997	PDCD4-AS1	PDCD4 antisense RNA 1	2.587	16.084	Up
27250	PDCD4	programmed cell death 4	1.633	9.77	Up
1.01E+08	MIR4680	microRNA 4680	1.624	5.351	Up
92482	BBIP1	BBSome interacting protein 1	0.917	3.906	Up
644511	RPL13AP6	ribosomal protein L13a pseudogene 6	0.758	1.341	Up
150	ADRA2A	adrenoceptor alpha 2A	3.638	3.571	Up
1.03E+08	LOC103344931	uncharacterized LOC103344931	0.586	1.308	Up
84632	AFAP1L2	actin filament associated protein 1 like 2	1.927	5.584	Up
3983	ABLIM1	actin binding LIM protein 1	1.325	3.957	Up
57700	FHIP2A	FHF complex subunit HOOK interacting protein 2A	0.55	1.84	Up
22841	RAB11FIP2	RAB11 family interacting protein 2	0.762	7.831	Up
2869	GRK5	G protein-coupled receptor kinase 5	0.485	2.37	Up
9531	BAG3	BAG cochaperone 3	0.909	5.862	Up
59338	PLEKHA1	pleckstrin homology domain containing A1	1.105	8.276	Up
5654	HTRA1	HtrA serine peptidase 1	4.81	3.34	Up

1.01E+08	FAM24B-CUZD1	FAM24B-CUZD1 readthrough	1.698	3.194	Up
50624	CUZD1	CUB and zona pellucida like domains 1	2.224	2.105	Up
196792	FAM24B	family with sequence similarity 24 member B	1.986	6.535	Up
399815	C10orf88B	C10orf88B (pseudogene)	1.094	2.171	Up
64376	IKZF5	IKAROS family zinc finger 5	0.652	6.618	Up
51363	CHST15	carbohydrate sulfotransferase 15	1.668	1.602	Up
64077	LHPP	phospholysine phosphohistidine inorganic pyrophosphate phosphatase	1.464	12.108	Up
1.05E+08	LOC105378539		0.54	1.72	Up
54764	ZRANB1	zinc finger RANBP2-type containing 1	0.73	4.27	Up
1488	CTBP2	C-terminal binding protein 2	0.708	5.11	Up
283038	LOC283038	uncharacterized LOC283038	1.511	1.333	Up
399821	EDRF1-DT	EDRF1 divergent transcript	1.867	2.288	Up
119437	CTAGE7P	CTAGE family member 7, pseudogene	1.563	1.743	Up
84504	NKX6-2	NK6 homeobox 2	0.733	1.561	Up
51272	BET1L	Bet1 golgi vesicular membrane trafficking protein like	0.926	15.518	Up
23410	SIRT3	sirtuin 3	0.98	11.849	Up
171389	NLRP6	NLR family pyrin domain containing 6	1.568	1.843	Up
80162	PGGHG	protein-glucosylgalactosylhydroxylysine glucosidase	1.829	2.786	Up
1.05E+08	LOC105376505	uncharacterized LOC105376505	2.727	3.183	Up
59307	SIGIRR	single Ig and TIR domain containing	2.126	34.727	Up
256329	LMNTD2	lamin tail domain containing 2	1.569	1.944	Up
8045	RASSF7	Ras association domain family member 7	0.914	2.258	Up
1.01E+08	MIR210HG	MIR210 host gene	1.691	2.407	Up
143666	LOC143666	uncharacterized LOC143666	3.158	6.218	Up
10522	DEAF1	DEAF1 transcription factor	1.032	1.676	Up
283232	TMEM80	transmembrane protein 80	1.726	10.897	Up
171391	GATD1-DT	GATD1 divergent transcript	1.364	1.779	Up
55367	PIDD1	p53-induced death domain protein 1	0.914	1.749	Up
6181	RPLP2	ribosomal protein lateral stalk subunit P2	0.835	1.603	Up
57104	PNPLA2	patatin like phospholipase domain containing 2	0.651	2.541	Up
255512	TOLLIP-DT	TOLLIP divergent transcript	2.1	3.176	Up
81532	MOB2	MOB kinase activator 2	0.707	3.299	Up
338651	KRTAP5-AS1	KRTAP5-1/KRTAP5-2 antisense RNA 1	3.244	7.793	Up
387264	KRTAP5-1	keratin associated protein 5-1	2.765	1.55	Up
440021	KRTAP5-2	keratin associated protein 5-2	2.643	2.493	Up
402778	IFITM10	interferon induced transmembrane protein 10	1.812	5.109	Up
1509	CTSD	cathepsin D	1.579	15.088	Up
7140	TNNT3	troponin T3, fast skeletal type	4.244	6.717	Up
29125	C11orf21	chromosome 11 open reading frame 21	3.024	4.823	Up
10077	TSPAN32	tetraspanin 32	2.098	3.118	Up
3784	KCNQ1	potassium voltage-gated channel subfamily Q member 1	1.134	9.549	Up
10984	KCNQ1OT1	KCNQ1 opposite strand/antisense transcript 1	0.942	2.08	Up
1028	CDKN1C	cyclin dependent kinase inhibitor 1C	1.533	4.455	Up
5003	SLC22A18AS	SLC22A18 antisense RNA	2.4	2.363	Up
5002	SLC22A18	solute carrier family 22 member 18	1.965	9.794	Up
6786	STIM1	stromal interaction molecule 1	0.389	2.684	Up
55128	TRIM68	tripartite motif containing 68	0.955	8.863	Up

3045	HBD	hemoglobin subunit delta	2.295	1.621	Up
160298	C11orf42	chromosome 11 open reading frame 42	2.048	2.697	Up
84067	FHIP1B	FHF complex subunit HOOK interacting protein 1B	0.594	1.455	Up
6609	SMPD1	sphingomyelin phosphodiesterase 1	1.117	1.835	Up
322	APBB1	amyloid beta precursor protein binding family B member 1	0.686	2.26	Up
10612	TRIM3	tripartite motif containing 3	0.564	1.477	Up
144132	DNHD1	dynein heavy chain domain 1	1.587	2.614	Up
1200	TPP1	tripeptidyl peptidase 1	1.492	16.979	Up
8642	DCHS1	dachsous cadherin-related 1	1.179	1.517	Up
8665	EIF3F	eukaryotic translation initiation factor 3 subunit F	0.859	2.44	Up
9866	TRIM66	tripartite motif containing 66	0.82	1.921	Up
6157	RPL27A	ribosomal protein L27a	0.818	1.605	Up
56672	AKIP1	A-kinase interacting protein 1	1.166	5.353	Up
493900	TMEM9B-AS1	TMEM9B antisense RNA 1	1.841	3.825	Up
81846	SBF2	SET binding factor 2	0.579	1.697	Up
133	ADM	adrenomedullin	2.144	2.189	Up
1E+08	MTRNR2L8	MT-RNR2 like 8 (pseudogene)	2.023	2.964	Up
50862	RNF141	ring finger protein 141	0.354	1.595	Up
58486	ZBED5	zinc finger BED-type containing 5	0.562	3.01	Up
729013	ZBED5-AS1	ZBED5 antisense RNA 1	0.656	1.363	Up
1.05E+08	LOC105376548	uncharacterized LOC105376548	4.599	17.748	Up
27122	DKK3	dickkopf WNT signaling pathway inhibitor 3	4.292	6.082	Up
406	BMAL1	basic helix-loop-helix ARNT like 1	0.66	3.617	Up
10418	SPON1	spondin 1	4.465	129.43	Up
5140	PDE3B	phosphodiesterase 3B	1.945	24.084	Up
120227	CYP2R1	cytochrome P450 family 2 subfamily R member 1	0.978	3.083	Up
6207	RPS13	ribosomal protein S13	0.933	1.669	Up
4925	NUCB2	nucleobindin 2	1.073	2.914	Up
26297	SERGEF	secretion regulating guanine nucleotide exchange factor	0.796	2.068	Up
1.05E+08	LOC105376577	uncharacterized LOC105376577	1.719	1.308	Up
144110	TMEM86A	transmembrane protein 86A	1.526	4.13	Up
89797	NAV2	neuron navigator 2	2.636	2.158	Up
2620	GAS2	growth arrest specific 2	1.493	1.761	Up
497258	BDNF-AS	BDNF antisense RNA	1.554	1.745	Up
5080	PAX6	paired box 6	0.848	1.59	Up
79832	QSER1	glutamine and serine rich 1	0.648	3.446	Up
91614	DEPDC7	DEP domain containing 7	1.682	1.589	Up
338739	CSTF3-DT	CSTF3 divergent transcript	2.112	1.595	Up
10114	HIPK3	homeodomain interacting protein kinase 3	0.612	2.766	Up
26273	FBXO3	F-box protein 3	0.727	3.014	Up
1.03E+08	LOC102723539		1.264	1.668	Up
847	CAT	catalase	0.663	5.871	Up
1.05E+08	LOC105376626	uncharacterized LOC105376626	1.938	1.974	Up
960	CD44	CD44 molecule (Indian blood group)	0.498	1.459	Up
5896	RAG1	recombination activating 1	1.695	1.601	Up
84680	ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (inactive)	1.381	1.817	Up

90139	TSPAN18	tetraspanin 18	2.442	33.84	Up
1408	CRY2	cryptochrome circadian regulator 2	0.537	1.871	Up
8525	DGKZ	diacylglycerol kinase zeta	0.566	2.411	Up
79797	ZNF408	zinc finger protein 408	0.429	1.76	Up
6688	SPI1	Spi-1 proto-oncogene	2.598	5.074	Up
91252	SLC39A13	solute carrier family 39 member 13	0.875	8.953	Up
114900	C1QTNF4	C1q and TNF related 4	2.946	3.121	Up
5795	PTPRJ	protein tyrosine phosphatase receptor type J	1.104	4.895	Up
219539	YPEL4	yippee like 4	4.634	16.592	Up
1500	CTNND1	catenin delta 1	0.913	3.462	Up
1.02E+08	FAM111A-DT	FAM111A divergent transcript	1.875	4.889	Up
63901	FAM111A	FAM111 trypsin like peptidase A	0.935	3.744	Up
23220	DTX4	deltex E3 ubiquitin ligase 4	3.315	8.624	Up
932	MS4A3	membrane spanning 4-domains A3	3.129	1.896	Up
2206	MS4A2	membrane spanning 4-domains A2	1.659	1.433	Up
64231	MS4A6A	membrane spanning 4-domains A6A	2.487	1.906	Up
51338	MS4A4A	membrane spanning 4-domains A4A	7.343	4.504	Up
58475	MS4A7	membrane spanning 4-domains A7	6.454	4.321	Up
1.08E+08	PRPF19-DT	PRPF19 divergent transcript	2.451	1.903	Up
923	CD6	CD6 molecule	0.539	4.046	Up
921	CD5	CD5 molecule	0.901	3.796	Up
220002	CYB561A3	cytochrome b561 family member A3	0.481	1.542	Up
7439	BEST1	bestrophin 1	0.882	2.122	Up
1.08E+08	LOC107984334	uncharacterized LOC107984334	1.566	2.489	Up
2495	FTH1	ferritin heavy chain 1	0.848	1.701	Up
79026	AHNAK	AHNAK nucleoprotein	1.27	2.898	Up
64852	TUT1	terminal uridylyl transferase 1, U6 snRNA-specific	0.321	2.396	Up
256364	EML3	EMAP like 3	0.512	2.414	Up
6094	ROM1	retinal outer segment membrane protein 1	2.381	7.802	Up
51035	UBXN1	UBX domain protein 1	0.98	3.594	Up
26580	BSCL2	BSCL2 lipid droplet biogenesis associated, seipin	1.555	12.82	Up
2785	GNG3	G protein subunit gamma 3	2.272	7.716	Up
79842	ZBTB3	zinc finger and BTB domain containing 3	0.775	1.616	Up
23642	SNHG1	small nucleolar RNA host gene 1	2.575	16.603	Up
117245	PLAAT5	phospholipase A and acyltransferase 5	2.536	1.421	Up
3338	DNAJC4	DnaJ heat shock protein family (Hsp40) member C4	1.599	17.889	Up
7423	VEGFB	vascular endothelial growth factor B	1.017	6.523	Up
10235	RASGRP2	RAS guanyl releasing protein 2	3.466	77.688	Up
5837	PYGM	glycogen phosphorylase, muscle associated	2.462	3.106	Up
5871	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2	0.586	3.824	Up
55561	CDC42BPG	CDC42 binding protein kinase gamma	1.809	3.75	Up
10938	EHD1	EH domain containing 1	0.571	2.358	Up
220359	TIGD3	tigger transposable element derived 3	1.028	1.318	Up
283130	SLC25A45	solute carrier family 25 member 45	0.765	2.219	Up
378938	MALAT1	metastasis associated lung adenocarcinoma transcript 1	1.416	2.512	Up
1.09E+08	TALAM1	TALAM1 transcript, MALAT1 antisense RNA	1.408	2.518	Up
4054	LTBP3	latent transforming growth factor beta binding protein 3	0.751	5.292	Up
6494	SIPA1	signal-induced proliferation-associated 1	0.973	2.051	Up

1.05E+08	RELA-DT	RELA divergent transcript	0.822	1.616	Up
83638	C11orf68	chromosome 11 open reading frame 68	1.181	13.015	Up
55690	PACS1	phosphofurin acidic cluster sorting protein 1	1.507	9.808	Up
9610	RIN1	Ras and Rab interactor 1	1.2	3.605	Up
11041	B4GAT1	beta-1,4-glucuronyltransferase 1	1.497	11.444	Up
582	BBS1	Bardet-Biedl syndrome 1	0.913	3.78	Up
254359	ZDHHC24	zinc finger DHHC-type containing 24	0.751	3.035	Up
8722	CTSF	cathepsin F	2.675	23.99	Up
156	GRK2	G protein-coupled receptor kinase 2	0.379	1.449	Up
57804	POLD4	DNA polymerase delta 4, accessory subunit	1.017	4.451	Up
374403	TBC1D10C	TBC1 domain family member 10C	0.891	4.009	Up
57010	CABP4	calcium binding protein 4	3.383	3.68	Up
221	ALDH3B1	aldehyde dehydrogenase 3 family member B1	3.878	5.778	Up
1374	CPT1A	carnitine palmitoyltransferase 1A	2.812	6.068	Up
220064	LTO1	LTO1 maturation factor of ABCE1	1.016	3.474	Up
4926	NUMA1	nuclear mitotic apparatus protein 1	1.177	2.575	Up
1E+08	LOC100128494	uncharacterized LOC100128494	1.168	2.222	Up
116985	ARAP1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	0.732	3.123	Up
5031	P2RY6	pyrimidinergic receptor P2Y6	2.881	2.355	Up
23201	FAM168A	family with sequence similarity 168 member A	0.877	4.241	Up
58473	PLEKHB1	pleckstrin homology domain containing B1	1.442	11.298	Up
374407	DNAJB13	DnaJ heat shock protein family (Hsp40) member B13	3.075	1.97	Up
7351	UCP2	uncoupling protein 2	0.515	1.634	Up
283209	PGM2L1	phosphoglucomutase 2 like 1	1.999	4.661	Up
10008	KCNE3	potassium voltage-gated channel subfamily E regulatory subunit 3	5.341	4.195	Up
387787	LIPT2	lipoyl(octanoyl) transferase 2	1.192	7.502	Up
1E+08	LIPT2-AS1	LIPT2 antisense RNA 1	2.315	10.044	Up
11309	SLCO2B1	solute carrier organic anion transporter family member 2B1	5.161	10.662	Up
408	ARRB1	arrestin beta 1	0.653	2.981	Up
6188	RPS3	ribosomal protein S3	0.806	1.413	Up
81544	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5	1.433	5.267	Up
7405	UVRAG	UV radiation resistance associated	0.44	1.714	Up
1.01E+08	GVQW3	GVQW motif containing 3	2.411	8.415	Up
726	CAPN5	calpain 5	0.737	1.411	Up
4647	MYO7A	myosin VIIA	3.506	2.926	Up
1E+08	KCTD21-AS1	KCTD21 antisense RNA 1	1.385	3.255	Up
283219	KCTD21	potassium channel tetramerization domain containing 21	1.682	5.309	Up
57558	USP35	ubiquitin specific peptidase 35	0.887	1.813	Up
338699	ANKRD42	ankyrin repeat domain 42	0.886	2.084	Up
1740	DLG2	discs large MAGUK scaffold protein 2	1.236	1.876	Up
58487	CREBZF	CREB/ATF bZIP transcription factor	0.796	3.155	Up
54843	SYTL2	synaptotagmin like 2	1.847	4.774	Up
85459	CEP295	centrosomal protein 295	1.223	2.456	Up
79101	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D	1.678	10.755	Up

4361	MRE11	MRE11 homolog, double strand break repair nuclease	0.355	1.319	Up
54851	ANKRD49	ankyrin repeat domain 49	0.528	2.765	Up
143689	PIWIL4	piwi like RNA-mediated gene silencing 4	2.813	5.156	Up
10929	SRSF8	serine and arginine rich splicing factor 8	0.504	3.68	Up
1.02E+08	LNCRNA-IUR	lncRNA imatinib upregulated	2.053	2.305	Up
143686	SESN3	sestrin 3	1.302	2.158	Up
1E+08	LOC100129203	uncharacterized LOC100129203	2.251	11.57	Up
9702	CEP57	centrosomal protein 57	1.203	8.365	Up
84441	MAML2	mastermind like transcriptional coactivator 2	0.712	1.794	Up
329	BIRC2	baculoviral IAP repeat containing 2	0.819	2.426	Up
114908	TMEM123	transmembrane protein 123	1.122	4.967	Up
79659	DYNC2H1	dynein cytoplasmic 2 heavy chain 1	1.162	1.949	Up
80310	PDGFD	platelet derived growth factor D	1.765	1.394	Up
143879	KBTBD3	kelch repeat and BTB domain containing 3	1.367	5.136	Up
1.05E+08	LOC105369477	uncharacterized LOC105369477	1.09	3.838	Up
472	ATM	ATM serine/threonine kinase	2.006	17.461	Up
160140	C11orf65	chromosome 11 open reading frame 65	1.958	6.245	Up
23235	SIK2	salt inducible kinase 2	1.191	4.461	Up
64776	CFAP68	cilia and flagella associated protein 68	0.885	1.738	Up
283140	LINC02762	long intergenic non-protein coding RNA 2762	3.168	2.812	Up
7704	ZBTB16	zinc finger and BTB domain containing 16	1.444	3.513	Up
23387	SIK3	SIK family kinase 3	0.639	1.757	Up
51092	SIDT2	SID1 transmembrane family member 2	1.482	18.432	Up
1.01E+08	LOC100652768	uncharacterized LOC100652768	1.55	6.844	Up
23621	BACE1	beta-secretase 1	0.978	2.474	Up
1E+08	BACE1-AS	BACE1 antisense RNA	1.316	1.763	Up
120425	JAML	junction adhesion molecule like	0.429	1.454	Up
916	CD3E	CD3 epsilon subunit of T-cell receptor complex	0.705	3.036	Up
917	CD3G	CD3 gamma subunit of T-cell receptor complex	1.117	4.226	Up
84866	TMEM25	transmembrane protein 25	0.753	3.362	Up
1.05E+08	LOC105369519	uncharacterized LOC105369519	2.601	2.03	Up
1656	DDX6	DEAD-box helicase 6	0.628	3.679	Up
643	CXCR5	C-X-C motif chemokine receptor 5	1.116	3.448	Up
283149	BCL9L	BCL9 like	2.289	7.599	Up
338657	CENATAC	centrosomal AT-AC splicing factor	0.788	1.89	Up
6230	RPS25	ribosomal protein S25	0.837	1.715	Up
55823	VPS11	VPS11 core subunit of CORVET and HOPS complexes	0.826	3.039	Up
25988	HINFP	histone H4 transcription factor	0.776	4.065	Up
79102	RNF26	ring finger protein 26	0.537	2.434	Up
219899	TBCEL	tubulin folding cofactor E like	0.543	2.276	Up
1.05E+08	SORL1-AS1	SORL1 antisense RNA 1	1.888	4.7	Up
6653	SORL1	sortilin related receptor 1	2.878	26.295	Up
84959	UBASH3B	ubiquitin associated and SH3 domain containing B	2.604	12.562	Up
1.02E+08	LOC101929289		3.45	2.735	Up
79827	CLMP	CXADR like membrane protein	1.432	1.733	Up

4013	VWA5A	von Willebrand factor A domain containing 5A	1.477	12.41	Up
54414	SIAE	sialic acid acetylesterase	0.572	2.172	Up
90952	ESAM	endothelial cell adhesion molecule	1.328	2.222	Up
80071	CCDC15	coiled-coil domain containing 15	1.395	3.592	Up
219855	SLC37A2	solute carrier family 37 member 2	5.897	18.207	Up
2113	ETS1	ETS proto-oncogene 1, transcription factor	0.418	1.383	Up
2313	FLI1	Fli-1 proto-oncogene, ETS transcription factor	1.362	8.934	Up
219833	KCNJ5-AS1	KCNJ5 antisense RNA 1	2.451	2.095	Up
120224	TMEM45B	transmembrane protein 45B	2.646	7.167	Up
4798	NFRKB	nuclear factor related to kappaB binding protein	0.746	2.126	Up
56980	PRDM10	PR/SET domain 10	0.697	4.888	Up
6768	ST14	ST14 transmembrane serine protease matriptase	5.446	3.965	Up
29068	ZBTB44	zinc finger and BTB domain containing 44	0.936	4.433	Up
1.04E+08	LOC103611081	replaced by ID 399979	0.911	2.218	Up
283174	MIR4697HG	replaced by ID 22997	1.942	4.226	Up
1.01E+08	MIR4697	microRNA 4697	1.892	1.644	Up
22997	IGSF9B	immunoglobulin superfamily member 9B	1.43	1.679	Up
1E+08	LINC02731	long intergenic non-protein coding RNA 2731	2.893	2.114	Up
112936	VPS26B	VPS26 retromer complex component B	1.073	34.628	Up
65125	WNK1	WNK lysine deficient protein kinase 1	0.573	1.362	Up
5893	RAD52	RAD52 homolog, DNA repair protein	1.042	5.917	Up
144699	FBXL14	F-box and leucine rich repeat protein 14	0.953	6.438	Up
196513	DCP1B	decapping mRNA 1B	0.599	3.779	Up
775	CACNA1C	calcium voltage-gated channel subunit alpha1 C	1.158	1.549	Up
1.01E+08	CACNA1C-AS2	CACNA1C antisense RNA 2	1.449	1.835	Up
55846	ITFG2	integrin alpha FG-GAP repeat containing 2	0.525	4.711	Up
83714	NRIP2	nuclear receptor interacting protein 2	1.972	3.3	Up
1.05E+08	PARP11-AS1	PARP11 antisense RNA 1	2.722	7.621	Up
928	CD9	CD9 molecule	3.554	58.774	Up
6337	SCNN1A	sodium channel epithelial 1 subunit alpha	2.19	1.919	Up
678655	CD27-AS1	CD27 antisense RNA 1	1.39	4.221	Up
939	CD27	CD27 molecule	1.391	3.813	Up
6843	VAMP1	vesicle associated membrane protein 1	0.973	1.579	Up
1.12E+08	GAPDH-DT	GAPDH divergent transcript	0.466	2.143	Up
25900	IFFO1	intermediate filament family orphan 1	1.428	2.303	Up
57121	LPAR5	lysophosphatidic acid receptor 5	0.615	1.667	Up
84519	ACRBP	acrosin binding protein	1.957	2.417	Up
51147	ING4	inhibitor of growth family member 4	1.447	8.28	Up
920	CD4	CD4 molecule	0.531	2.417	Up
84727	SPSB2	splA/ryanodine receptor domain and SOCS box containing 2	0.661	1.593	Up
10233	LRRC23	leucine rich repeat containing 23	1.448	2.665	Up
113246	C12orf57	chromosome 12 open reading frame 57	0.782	1.855	Up
9746	CLSTN3	calsyntenin 3	1.407	10.027	Up
9332	CD163	CD163 molecule	5.046	2.421	Up
55810	FOXJ2	forkhead box J2	0.84	4.625	Up
50856	CLEC4A	C-type lectin domain family 4 member A	1.722	1.302	Up

440078	FAM66C	family with sequence similarity 66 member C	1.527	2.561	Up
144571	A2M-AS1	A2M antisense RNA 1	3.188	2.786	Up
2	A2M	alpha-2-macroglobulin	4.185	12.18	Up
5858	PZP	PZP alpha-2-macroglobulin like	3.272	3.282	Up
3820	KLRB1	killer cell lectin like receptor B1	2.311	11.851	Up
1.08E+08	LOC107987174		2.412	11.305	Up
374443	LOC374443	C-type lectin domain family 2 member D pseudogene	1.157	14.619	Up
1.05E+08	LINC02390	long intergenic non-protein coding RNA 2390	1.471	3.077	Up
51348	KLRF1	killer cell lectin like receptor F1	2.002	2.609	Up
9976	CLEC2B	C-type lectin domain family 2 member B	0.901	3.043	Up
160364	CLEC12A	C-type lectin domain family 12 member A	3.547	2.25	Up
4973	OLR1	oxidized low density lipoprotein receptor 1	4.592	6.101	Up
23710	GABARAPL1	GABA type A receptor associated protein like 1	0.703	1.715	Up
259295	TAS2R20	taste 2 receptor member 20	1.503	1.951	Up
118426	BORCS5	BLOC-1 related complex subunit 5	0.492	2.24	Up
1.08E+08	LOC107984485		1.435	6.408	Up
80824	DUSP16	dual specificity phosphatase 16	1.112	3.573	Up
2842	GPR19	G protein-coupled receptor 19	0.885	5.726	Up
1027	CDKN1B	cyclin dependent kinase inhibitor 1B	1.068	7.321	Up
1.05E+08	LOC105369663	uncharacterized LOC105369663	1.109	6.081	Up
81575	APOLD1	apolipoprotein L domain containing 1	0.796	1.831	Up
1.08E+08	LOC107984129		2.34	2.531	Up
50865	HEBP1	heme binding protein 1	0.945	5.486	Up
93164	HTR7P1	5-hydroxytryptamine receptor 7 pseudogene 1	1.133	3.064	Up
79887	PLBD1	phospholipase B domain containing 1	2.574	3.101	Up
121504	H4C16	H4 histone 16	2.121	2.02	Up
121506	ERP27	endoplasmic reticulum protein 27	1.92	9.021	Up
397	ARHGDIB	Rho GDP dissociation inhibitor beta	0.825	2.262	Up
5800	PTPRO	protein tyrosine phosphatase receptor type O	2.558	11.87	Up
4257	MGST1	microsomal glutathione S-transferase 1	3.121	7.265	Up
9847	C2CD5	C2 calcium dependent domain containing 5	0.648	2.948	Up
645177	LOC645177	replaced by ID 4033	1.999	1.969	Up
4033	IRAG2	inositol 1,4,5-triphosphate receptor associated 2	2.363	9.451	Up
144363	ETFRF1	electron transfer flavoprotein regulatory factor 1	0.889	2.837	Up
79365	BHLHE41	basic helix-loop-helix family member e41	3.274	2.645	Up
8082	SSPN	sarcospan	2.342	1.373	Up
729291	LOC729291	uncharacterized LOC729291	0.821	1.616	Up
1.02E+08	LOC101928705		1.119	2.082	Up
65981	CAPRIN2	caprin family member 2	1.424	4.266	Up
196394	AMN1	antagonist of mitotic exit network 1 homolog	0.651	1.99	Up
121512	FGD4	FYVE, RhoGEF and PH domain containing 4	1.69	1.515	Up
114134	SLC2A13	solute carrier family 2 member 13	0.984	6.523	Up
120892	LRRK2	leucine rich repeat kinase 2	3.285	1.784	Up
51135	IRAK4	interleukin 1 receptor associated kinase 4	0.605	3.399	Up
4753	NELL2	neural EGFL like 2	1.059	3.996	Up
51054	PLEKHA8P1	pleckstrin homology domain containing A8 pseudogene 1	1.733	9.095	Up

196527	ANO6	anoctamin 6	0.682	5.023	Up
9169	SCAF11	SR-related CTD associated factor 11	0.509	1.6	Up
1.05E+08	LOC105378248	uncharacterized LOC105378248	1.007	1.371	Up
1E+08	SLC38A4-AS1	SLC38A4 antisense RNA 1	2.435	2.37	Up
91523	PCED1B	PC-esterase domain containing 1B	0.845	1.83	Up
1E+08	PCED1B-AS1	PCED1B antisense RNA 1	0.766	1.645	Up
140461	ASB8	ankyrin repeat and SOCS box containing 8	0.523	3.596	Up
121274	ZNF641	zinc finger protein 641	0.53	1.414	Up
85478	CCDC65	coiled-coil domain containing 65	2.917	15.437	Up
7480	WNT10B	Wnt family member 10B	2.561	3.139	Up
7471	WNT1	Wnt family member 1	2.233	5.787	Up
55716	LMBR1L	limb development membrane protein 1 like	0.862	9.236	Up
1E+08	BCDIN3D-AS1	BCDIN3D antisense RNA 1	0.569	1.382	Up
144233	BCDIN3D	BCDIN3 domain containing RNA methyltransferase	0.781	2.934	Up
25840	METTL7A	methyltransferase like 7A	1.746	5.009	Up
25875	LETMD1	LETM1 domain containing 1	2.031	23.53	Up
5463	POU6F1	POU class 6 homeobox 1	1.204	6.116	Up
57228	SMAGP	small cell adhesion glycoprotein	1.008	3.635	Up
1.03E+08	LOC102723983		1.67	1.48	Up
51411	BIN2	bridging integrator 2	0.82	1.944	Up
1990	CELA1	chymotrypsin like elastase 1	3.166	4.368	Up
140807	KRT72	keratin 72	6.045	13.603	Up
319101	KRT73	keratin 73	6.749	23.502	Up
1E+08	KRT73-AS1	KRT73 antisense RNA 1	6.917	22.679	Up
1.05E+08	LOC105369772	replaced by ID 319101	5.686	14.142	Up
3849	KRT2	keratin 2	8.973	9.989	Up
1975	EIF4B	eukaryotic translation initiation factor 4B	0.757	4.029	Up
51380	CSAD	cysteine sulfinic acid decarboxylase	0.921	1.692	Up
5204	PFDN5	prefoldin subunit 5	1.148	2.16	Up
1.12E+08	MYG1-AS1	MYG1 antisense RNA 1	1.129	2.138	Up
5094	PCBP2	poly(rC) binding protein 2	0.666	2.795	Up
1.02E+08	PCBP2-OT1	PCBP2 overlapping transcript 1	0.787	3.611	Up
7786	MAP3K12	mitogen-activated protein kinase kinase kinase 12	0.417	1.719	Up
57658	CALCOCO1	calcium binding and coiled-coil domain 1	1.727	24.62	Up
4778	NFE2	nuclear factor, erythroid 2	1.879	3.871	Up
1.03E+08	GPR84-AS1	GPR84, ZNF385A, ITGA5 and GTSF1 antisense RNA 1	2.152	5.702	Up
25946	ZNF385A	zinc finger protein 385A	1.729	4.87	Up
3678	ITGA5	integrin subunit alpha 5	2.527	11.014	Up
1.08E+08	LOC107984515	uncharacterized LOC107984515	2.111	4.738	Up
440104	TMEM198B	transmembrane protein 198B (pseudogene)	1.34	6.591	Up
4327	MMP19	matrix metallopeptidase 19	3.374	10.421	Up
1606	DGKA	diacylglycerol kinase alpha	1.005	8.017	Up
6490	PMEL	premelanosome protein	1.908	1.424	Up
5869	RAB5B	RAB5B, member RAS oncogene family	0.709	6.183	Up
6821	SUOX	sulfite oxidase	0.74	5.73	Up

2065	ERBB3	erb-b2 receptor tyrosine kinase 3	2.255	2.216	Up
93058	COQ10A	coenzyme Q10A	0.838	1.905	Up
9924	PAN2	poly(A) specific ribonuclease subunit PAN2	1.463	11.955	Up
27165	GLS2	glutaminase 2	0.827	1.845	Up
4666	NACA	nascent polypeptide associated complex subunit alpha	0.761	1.476	Up
8608	RDH16	retinol dehydrogenase 16	2.409	2.838	Up
4035	LRP1	LDL receptor related protein 1	2.372	10.89	Up
22864	R3HDM2	R3H domain containing 2	1.698	4.751	Up
2735	GLI1	GLI family zinc finger 1	1.07	3.864	Up
64333	ARHGAP9	Rho GTPase activating protein 9	1.264	9.527	Up
1649	DDIT3	DNA damage inducible transcript 3	0.944	3.118	Up
116986	AGAP2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	0.699	3.864	Up
1E+08	AGAP2-AS1	AGAP2 antisense RNA 1	0.716	3.603	Up
92979	MARCHF9	membrane associated ring-CH-type finger 9	0.666	4.449	Up
25895	EEF1AKMT3	EEF1A lysine methyltransferase 3	1.844	2.525	Up
10106	CTDSP2	CTD small phosphatase 2	1.183	3.855	Up
338811	TAFA2	TAFA chemokine like family member 2	2.956	7.625	Up
57460	PPM1H	protein phosphatase, Mg2+/Mn2+ dependent 1H	2.812	4.18	Up
1.13E+08	MIR10527	microRNA 10527	1.804	7.616	Up
144577	KICS2	KICSTOR subunit 2	0.846	4.948	Up
283349	RASSF3	Ras association domain family member 3	1.547	12.084	Up
2799	GNS	glucosamine (N-acetyl)-6-sulfatase	0.522	1.878	Up
253827	MSRB3	methionine sulfoxide reductase B3	1.448	1.563	Up
1.04E+08	LLPH-DT	LLPH divergent transcript	1.695	2.127	Up
11213	IRAK3	interleukin 1 receptor associated kinase 3	2.325	7.824	Up
8445	DYRK2	dual specificity tyrosine phosphorylation regulated kinase 2	1.922	26.359	Up
1.05E+08	LOC105369816	uncharacterized LOC105369816	2.038	5.78	Up
56890	MDM1	Mdm1 nuclear protein	0.574	2.97	Up
55508	SLC35E3	solute carrier family 35 member E3	1.163	9.188	Up
4069	LYZ	lysozyme	2.831	2.07	Up
10818	FRS2	fibroblast growth factor receptor substrate 2	0.439	1.338	Up
1.02E+08	PRANCR	progenitor renewal associated non-coding RNA	1.358	3.808	Up
27345	KCNMB4	potassium calcium-activated channel subfamily M regulatory beta subunit 4	2.667	8.575	Up
64786	TBC1D15	TBC1 domain family member 15	1.376	16.249	Up
552889	ATXN7L3B	ataxin 7 like 3B	0.511	1.338	Up
144321	GLIPR1L2	GLIPR1 like 2	1.409	1.442	Up
79738	BBS10	Bardet-Biedl syndrome 10	0.946	7.223	Up
114882	OSBPL8	oxysterol binding protein like 8	1.121	5.506	Up
160418	TMTC3	transmembrane O-mannosyltransferase targeting cadherins 3	0.552	2.194	Up
490	ATP2B1	ATPase plasma membrane Ca2+ transporting 1	0.62	2.659	Up
1.05E+08	LOC105369901	uncharacterized LOC105369901	4.802	4.385	Up
256021	LINC01619	long intergenic non-protein coding RNA 1619	0.967	1.719	Up
694	BTG1	BTG anti-proliferation factor 1	1.485	6.5	Up

1.02E+08	BTG1-DT	BTG1 divergent transcript	2.927	8.757	Up
1.08E+08	LOC107984023		1.816	1.744	Up
8411	EEA1	early endosome antigen 1	0.856	2.996	Up
8738	CRADD	CASP2 and RIPK1 domain containing adaptor with death domain	0.724	1.563	Up
57458	TMCC3	transmembrane and coiled-coil domain family 3	1.587	1.553	Up
55785	FGD6	FYVE, RhoGEF and PH domain containing 6	1.039	2.111	Up
84101	USP44	ubiquitin specific peptidase 44	1.005	1.538	Up
59277	NTN4	netrin 4	3.789	8.533	Up
55592	GOLGA2P5	GOLGA2 pseudogene 5	2.12	1.859	Up
283431	GAS2L3	growth arrest specific 2 like 3	3.049	2.765	Up
79158	GNPTAB	N-acetylglucosamine-1-phosphate transferase subunits alpha and beta	1.056	6.483	Up
374470	C12orf42	chromosome 12 open reading frame 42	3.584	11.401	Up
23325	WASHC4	WASH complex subunit 4	0.522	3.055	Up
55198	APPL2	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2	1.314	8.286	Up
255394	TCP11L2	t-complex 11 like 2	2.992	23.409	Up
121551	ABTB3	ankyrin repeat and BTB domain containing 3	2.489	9.811	Up
1240	CMKLR1	chemerin chemokine-like receptor 1	3.525	3.196	Up
338773	TMEM119	transmembrane protein 119	5.615	8.253	Up
6404	SELPLG	selectin P ligand	2.089	45.132	Up
84749	USP30	ubiquitin specific peptidase 30	0.794	4.362	Up
32	ACACB	acetyl-CoA carboxylase beta	2.948	9.731	Up
400073	C12orf76	chromosome 12 open reading frame 76	0.572	1.387	Up
79600	TCTN1	tectonic family member 1	1.465	2.399	Up
84329	HVCN1	hydrogen voltage gated channel 1	2.469	4.047	Up
8315	BRAP	BRCA1 associated protein	0.302	1.364	Up
51275	MAPKAPK5-AS1	MAPKAPK5 antisense RNA 1	1.238	10.639	Up
89894	TMEM116	transmembrane protein 116	1.815	14.338	Up
10961	ERP29	endoplasmic reticulum protein 29	1.066	4.215	Up
8437	RASAL1	RAS protein activator like 1	1.022	1.381	Up
53373	TPCN1	two pore segment channel 1	1.273	6.958	Up
80024	SLC8B1	solute carrier family 8 member B1	1.917	20.537	Up
10993	SDS	serine dehydratase	7.578	6.718	Up
113675	SDSL	serine dehydratase like	2.966	3.871	Up
23389	MED13L	mediator complex subunit 13L	0.621	1.83	Up
4842	NOS1	nitric oxide synthase 1	5.167	2.461	Up
51347	TAOK3	TAO kinase 3	0.537	2.685	Up
1.01E+08	PXN-AS1	PXN antisense RNA 1	1.222	8.212	Up
5829	PXN	paxillin	1.415	13.222	Up
84747	UNC119B	unc-119 lipid binding chaperone B	1.024	13.314	Up
1.01E+08	MIR4700	microRNA 4700	1.246	3.344	Up
121665	SPPL3	signal peptide peptidase like 3	0.464	1.848	Up
84678	KDM2B	lysine demethylase 2B	0.575	1.759	Up
1.02E+08	KDM2B-DT	KDM2B divergent transcript	4.387	2.671	Up
283385	MORN3	MORN repeat containing 3	3.745	9.141	Up

338799	LINC01089	long intergenic non-protein coding RNA 1089	2.517	6.033	Up
23067	SETD1B	SET domain containing 1B, histone lysine methyltransferase	1.167	4.807	Up
22877	MLXIP	MLX interacting protein	0.773	2.182	Up
9026	HIP1R	huntingtin interacting protein 1 related	0.513	1.372	Up
79676	OGFOD2	2-oxoglutarate and iron dependent oxygenase domain containing 2	0.428	1.413	Up
57605	PITPNM2	phosphatidylinositol transfer protein membrane associated 2	1.286	4.309	Up
1.12E+08	SBNO1-AS1	SBNO1 antisense RNA 1	3.147	2.197	Up
79867	TCTN2	tectonic family member 2	1.378	3.956	Up
80212	CCDC92	coiled-coil domain containing 92	0.369	1.789	Up
8408	ULK1	unc-51 like autophagy activating kinase 1	0.718	2.689	Up
1.01E+08	LINC02361	long intergenic non-protein coding RNA 2361	2.712	21.992	Up
1E+08	ZNF605	zinc finger protein 605	1.041	3.977	Up
7574	ZNF26	zinc finger protein 26	0.709	7.524	Up
7637	ZNF84	zinc finger protein 84	0.985	11.043	Up
7556	ZNF10	zinc finger protein 10	1.365	9.986	Up
9205	ZMYM5	zinc finger MYM-type containing 5	0.471	1.416	Up
7750	ZMYM2	zinc finger MYM-type containing 2	0.682	2.494	Up
51084	CRYL1	crystallin lambda 1	0.924	4.364	Up
143	PARP4	poly(ADP-ribose) polymerase family member 4	0.863	7.082	Up
5042	PABPC3	poly(A) binding protein cytoplasmic 3	1.632	8.561	Up
6144	RPL21	ribosomal protein L21	0.979	1.793	Up
219402	MTIF3	mitochondrial translational initiation factor 3	0.736	5.754	Up
222484	LNX2	ligand of numb-protein X 2	0.735	1.69	Up
51082	POLR1D	RNA polymerase I and III subunit D	0.619	1.656	Up
255967	PAN3	poly(A) specific ribonuclease subunit PAN3	0.563	2.794	Up
283537	SLC46A3	solute carrier family 46 member 3	1.256	6.245	Up
1.03E+08	LOC102723345	uncharacterized LOC102723345	4.184	5.625	Up
1E+08	LINC00426	long intergenic non-protein coding RNA 426	2.824	14.487	Up
241	ALOX5AP	arachidonate 5-lipoxygenase activating protein	0.833	1.849	Up
1.01E+08	FRY-AS1	FRY antisense RNA 1	2.204	1.432	Up
10129	FRY	FRY microtubule binding protein	1.539	14.722	Up
10443	N4BP2L2	NEDD4 binding protein 2 like 2	0.263	1.996	Up
116828	N4BP2L2-IT2	N4BPL2 intronic transcript 2	1.752	2.385	Up
4093	SMAD9	SMAD family member 9	2.824	2.181	Up
55578	SUPT20H	SPT20 homolog, SAGA complex component	0.401	2.163	Up
387921	NHLRC3	NHL repeat containing 3	0.993	4.8	Up
57511	COG6	component of oligomeric golgi complex 6	0.643	3.297	Up
2308	FOXO1	forkhead box O1	1.302	4.957	Up
1.01E+08	TPTE2P5	TPTE2 pseudogene 5	0.665	1.622	Up
89890	KBTBD6	kelch repeat and BTB domain containing 6	0.949	4.308	Up
84078	KBTBD7	kelch repeat and BTB domain containing 7	1.007	4.535	Up
9617	MTRF1	mitochondrial translation release factor 1	0.543	2.442	Up
79612	NAA16	N-alpha-acetyltransferase 16, NatA auxiliary subunit	0.826	2.424	Up
28984	RGCC	regulator of cell cycle	1.063	2.442	Up

8848	TSC22D1	TSC22 domain family member 1	2.221	41.633	Up
641467	TSC22D1-AS1	TSC22D1 antisense RNA 1	2.101	5.958	Up
7178	TPT1	tumor protein, translationally-controlled 1	1.105	2.078	Up
1E+08	TPT1-AS1	TPT1 antisense RNA 1	0.641	2.537	Up
83548	COG3	component of oligomeric golgi complex 3	0.543	2.246	Up
283514	SIAH3	siah E3 ubiquitin protein ligase family member 3	5.692	8.06	Up
9445	ITM2B	integral membrane protein 2B	1.036	3.165	Up
10161	LPAR6	lysophosphatidic acid receptor 6	1.11	4.07	Up
83852	SETDB2	SET domain bifurcated histone lysine methyltransferase 2	0.942	7.88	Up
10206	TRIM13	tripartite motif containing 13	0.57	3.903	Up
1.08E+08	LOC107984567	LINE-1 retrotransposable element ORF2 protein-like	2.578	2.558	Up
1.01E+08	INTS6-AS1	INTS6 antisense RNA 1	2.047	3.534	Up
115825	WDFY2	WD repeat and FYVE domain containing 2	0.743	5.416	Up
79758	DHRS12	dehydrogenase/reductase 12	0.42	1.396	Up
1.01E+08	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5	1.703	4.579	Up
55901	THSD1	thrombospondin type 1 domain containing 1	1.461	1.313	Up
26586	CKAP2	cytoskeleton associated protein 2	0.965	7.478	Up
81550	TDRD3	tudor domain containing 3	0.772	3.661	Up
5101	PCDH9	protocadherin 9	1.38	1.559	Up
6315	ATXN8OS	ATXN8 opposite strand lncRNA	0.444	1.407	Up
688	KLF5	KLF transcription factor 5	0.935	2.366	Up
11278	KLF12	KLF transcription factor 12	0.915	5.842	Up
1.01E+08	LINC00402	long intergenic non-protein coding RNA 402	3.559	15.102	Up
1.05E+08	LOC105370259	uncharacterized LOC105370259	4.219	17.093	Up
1.01E+08	LINC00381	long intergenic non-protein coding RNA 381	5.187	2.725	Up
170622	COMMD6	COMM domain containing 6	1.286	2.326	Up
115207	KCTD12	potassium channel tetramerization domain containing 12	1.111	8.132	Up
26224	FBXL3	F-box and leucine rich repeat protein 3	0.786	3.168	Up
10253	SPRY2	sprouty RTK signaling antagonist 2	1.138	1.574	Up
26050	SLITRK5	SLIT and NTRK like family member 5	5.476	4.358	Up
1638	DCT	dopachrome tautomerase	4.251	4.576	Up
1E+08	DNAJC3-DT	DNAJC3 divergent transcript	1.861	5.089	Up
23348	DOCK9	dedicator of cytokinesis 9	0.707	2.14	Up
1.01E+08	DOCK9-DT	DOCK9 divergent transcript	1.436	5.471	Up
337867	UBAC2	UBA domain containing 2	0.795	2.819	Up
87769	GGACT	gamma-glutamylamine cyclotransferase	0.594	1.363	Up
1.01E+08	BIVM-ERCC5	BIVM-ERCC5 readthrough	1.14	9.264	Up
2073	ERCC5	ERCC excision repair 5, endonuclease	1.174	8.725	Up
23026	MYO16	myosin XVI	2.079	1.431	Up
8660	IRS2	insulin receptor substrate 2	2.116	18.558	Up
55647	RAB20	RAB20, member RAS oncogene family	1.498	5.569	Up
55739	NAXD	NAD(P)HX dehydratase	0.454	3.316	Up
3621	ING1	inhibitor of growth family member 1	1.098	14.818	Up
55608	ANKRD10	ankyrin repeat domain 10	1.04	4.551	Up

8874	ARHGEF7	Rho guanine nucleotide exchange factor 7	0.657	2.405	Up
23263	MCF2L	MCF.2 cell line derived transforming sequence like	0.844	1.414	Up
1E+08	MCF2L-AS1	MCF2L antisense RNA 1	1.522	3.397	Up
55208	DCUN1D2	defective in cullin neddylation 1 domain containing 2	1.191	3.266	Up
1.01E+08	SWINGN	SWI/SNF complex interacting GAS6 enhancer non-coding RNA	5.119	10.892	Up
1.05E+08	LOC105377806		3.796	9.617	Up
1.01E+08	C13orf46	chromosome 13 open reading frame 46	4.584	12.087	Up
22821	RASA3	RAS p21 protein activator 3	3.189	45.789	Up
1.02E+08	CFAP97D2	CFAP97 domain containing 2	3.957	2.391	Up
57820	CCNB1IP1	cyclin B1 interacting protein 1	0.947	2.604	Up
6039	RNASE6	ribonuclease A family member k6	3.28	11.748	Up
6035	RNASE1	ribonuclease A family member 1, pancreatic	7.627	17.379	Up
57447	NDRG2	NDRG family member 2	0.768	2.431	Up
1.02E+08	MIR6717	microRNA 6717	1.438	1.466	Up
55701	ARHGEF40	Rho guanine nucleotide exchange factor 40	1.648	2.461	Up
51222	ZNF219	zinc finger protein 219	0.757	2.222	Up
6297	SALL2	spalt like transcription factor 2	1.432	6.829	Up
28665	TRAV18	T cell receptor alpha variable 18	1.026	2.676	Up
5018	OXA1L	OXA1L mitochondrial inner membrane protein	0.721	2.246	Up
9056	SLC7A7	solute carrier family 7 member 7	2.516	5.559	Up
26020	LRP10	LDL receptor related protein 10	0.264	1.861	Up
161253	REM2	RRAD and GEM like GTPase 2	2.939	4.022	Up
1.08E+08	AJUBA-DT	AJUBA divergent transcript	1.486	1.906	Up
60686	C14orf93	chromosome 14 open reading frame 93	1.466	7.156	Up
122706	PSMB11	proteasome subunit beta 11	7.241	3.379	Up
1053	CEBPE	CCAAT enhancer binding protein epsilon	2.827	2.937	Up
23428	SLC7A8	solute carrier family 7 member 8	3.446	3.035	Up
90673	PPP1R3E	protein phosphatase 1 regulatory subunit 3E	1.889	8.265	Up
599	BCL2L2	BCL2 like 2	1.239	1.949	Up
51310	SLC22A17	solute carrier family 22 member 17	1.744	6.882	Up
55449	DHRS4-AS1	DHRS4 antisense RNA 1	0.747	3.016	Up
51292	GMPR2	guanosine monophosphate reductase 2	0.809	4.185	Up
115817	DHRS1	dehydrogenase/reductase 1	0.855	3.755	Up
56413	LTB4R2	leukotriene B4 receptor 2	1.19	2.32	Up
1241	LTB4R	leukotriene B4 receptor	2.287	8.142	Up
196883	ADCY4	adenylate cyclase 4	2.732	1.329	Up
56948	SDR39U1	short chain dehydrogenase/reductase family 39U member 1	0.468	2.933	Up
55632	G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.464	3.714	Up
394	ARHGAP5	Rho GTPase activating protein 5	0.578	3.702	Up
84837	ARHGAP5-AS1	ARHGAP5 antisense RNA 1 (head to head)	2.212	1.774	Up
1.01E+08	SRP54-AS1	SRP54 antisense RNA 1	1.815	6.891	Up
280655	IGBP1P1	immunoglobulin (CD79A) binding protein 1 pseudogene 1	1.279	2.44	Up
9692	PRORP	protein only RNase P catalytic subunit	0.493	1.603	Up
122525	C14orf28	chromosome 14 open reading frame 28	1.164	5.548	Up

54813	KLHL28	kelch like family member 28	0.478	2.038	Up
23116	TOGARAM1	TOG array regulator of axonemal microtubules 1	1.172	4.219	Up
1.08E+08	LOC107984701	uncharacterized LOC107984701	2.349	2.654	Up
6235	RPS29	ribosomal protein S29	1.122	2.711	Up
122773	KLHDC1	kelch domain containing 1	2.056	7.222	Up
23588	KLHDC2	kelch domain containing 2	0.547	2.916	Up
6655	SOS2	SOS Ras/Rho guanine nucleotide exchange factor 2	0.938	2.56	Up
51062	ATL1	atlastin GTPase 1	1.362	2.936	Up
51199	NIN	ninein	0.686	1.465	Up
1.05E+08	LOC105370489	uncharacterized LOC105370489	0.826	1.447	Up
5836	PYGL	glycogen phosphorylase L	2.09	4.98	Up
114088	TRIM9	tripartite motif containing 9	1.634	3.025	Up
57544	TXNDC16	thioredoxin domain containing 16	0.498	2.175	Up
652	BMP4	bone morphogenetic protein 4	3.898	2.073	Up
10175	CNIH1	cornichon family AMPA receptor auxiliary protein 1	0.675	1.621	Up
10668	CGRRF1	cell growth regulator with ring finger domain 1	0.622	1.868	Up
3958	LGALS3	galectin 3	1.174	2.689	Up
55030	FBXO34	F-box protein 34	0.937	2.732	Up
22863	ATG14	autophagy related 14	1.122	5.738	Up
57161	PELI2	pellino E3 ubiquitin protein ligase family member 2	2.076	15.437	Up
54916	TMEM260	transmembrane protein 260	1.636	13.599	Up
5926	ARID4A	AT-rich interaction domain 4A	1.136	2.866	Up
9786	KIAA0586	KIAA0586	1.073	8.172	Up
23002	DAAM1	dishevelled associated activator of morphogenesis 1	0.889	3.711	Up
64582	GPR135	G protein-coupled receptor 135	0.891	1.34	Up
6252	RTN1	reticulon 1	2.409	1.568	Up
64430	PCNX4	pecanex 4	0.411	1.371	Up
145389	SLC38A6	solute carrier family 38 member 6	0.752	1.412	Up
5583	PRKCH	protein kinase C eta	1.182	7.35	Up
1.05E+08	LOC105370525	uncharacterized LOC105370525	1.804	1.583	Up
400221	LINC03033	long intergenic non-protein coding RNA 3033	2.92	2.523	Up
7597	ZBTB25	zinc finger and BTB domain containing 25	1.188	5.631	Up
26030	PLEKHG3	pleckstrin homology and RhoGEF domain containing G3	1.764	9.125	Up
645431	FUT8-AS1	FUT8 antisense RNA 1	0.926	1.787	Up
161145	TMEM229B	transmembrane protein 229B	1.061	1.387	Up
87	ACTN1	actinin alpha 1	1.261	5.849	Up
8816	DCAF5	DDB1 and CUL4 associated factor 5	0.639	7.165	Up
23508	TTC9	tetratricopeptide repeat domain 9	1.136	3.025	Up
89932	PAPLN	papilin, proteoglycan like sulfated glycoprotein	3.476	2.732	Up
9240	PNMA1	PNMA family member 1	0.668	3.886	Up
1.01E+08	MIDEAS-AS1	MIDEAS antisense RNA 1	2.547	3.875	Up
957	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5 (inactive)	0.512	3.106	Up
80127	BBOF1	basal body orientation factor 1	1.452	10.364	Up
4329	ALDH6A1	aldehyde dehydrogenase 6 family member A1	1.604	15.583	Up
10577	NPC2	NPC intracellular cholesterol transporter 2	0.966	3.747	Up
1.01E+08	MIR4709	microRNA 4709	1.065	3.436	Up

4053	LTBP2	latent transforming growth factor beta binding protein 2	1.086	2.308	Up
283571	PROX2	prospero homeobox 2	2.732	13.922	Up
27030	MLH3	mutL homolog 3	0.916	1.516	Up
91754	NEK9	NIMA related kinase 9	0.583	5.827	Up
7043	TGFB3	transforming growth factor beta 3	1.669	3.051	Up
1.01E+08	VASH1-AS1	VASH1 antisense RNA 1	1.02	5.608	Up
23357	ANGEL1	angel homolog 1	0.42	1.458	Up
64207	IRF2BPL	interferon regulatory factor 2 binding protein like	0.535	2.132	Up
1.08E+08	LOC107984638	arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2	0.803	3.824	Up
1.05E+08	LOC105370579	uncharacterized LOC105370579	2.162	4.448	Up
85457	CIPC	CLOCK interacting pacemaker	0.403	2.376	Up
122945	NOXRED1	NADP dependent oxidoreductase domain containing 1	2.171	2.649	Up
63894	VIPAS39	VPS33B interacting protein, apical-basolateral polarity regulator, spe-39 homolog	0.542	2.314	Up
145508	CEP128	centrosomal protein 128	0.957	2.396	Up
23768	FLRT2	fibronectin leucine rich transmembrane protein 2	4.769	4.453	Up
56659	KCNK13	potassium two pore domain channel subfamily K member 13	3.733	3.593	Up
440193	CCDC88C	coiled-coil domain containing 88C	1.102	1.409	Up
79820	CATSPERB	cation channel sperm associated auxiliary subunit beta	2.31	2.281	Up
123036	TC2N	tandem C2 domains, nuclear	1.446	7.458	Up
10516	FBLN5	fibulin 5	2.106	3.584	Up
79890	RIN3	Ras and Rab interactor 3	1.037	3.438	Up
64112	MOAP1	modulator of apoptosis 1	1.003	7.312	Up
1.12E+08	LOC112268122		2.25	2.2	Up
56967	C14orf132	chromosome 14 open reading frame 132	3.47	14.83	Up
1.02E+08	LINC02325	long intergenic non-protein coding RNA 2325	0.878	2.051	Up
388011	LINC01550	long intergenic non-protein coding RNA 1550	0.947	1.64	Up
1.05E+08	LOC105370655	uncharacterized LOC105370655	3.299	1.584	Up
1.05E+08	LINC02295	long intergenic non-protein coding RNA 2295	0.969	1.5	Up
1.08E+08	LOC107987207	uncharacterized LOC107987207	2.361	1.382	Up
64919	BCL11B	BCL11 transcription factor B	0.88	3.717	Up
1.05E+08	LOC105370660	uncharacterized LOC105370660	4.751	2.118	Up
84439	HHIPL1	HHIP like 1	3.147	2.24	Up
51466	EVL	Enah/Vasp-like	0.703	4.228	Up
123099	DEGS2	delta 4-desaturase, sphingolipid 2	0.786	4.257	Up
7528	YY1	YY1 transcription factor	0.413	1.519	Up
123096	SLC25A29	solute carrier family 25 member 29	0.51	3.136	Up
1.08E+08	LOC107984698		3.416	8.01	Up
1.05E+08	LINC02320	long intergenic non-protein coding RNA 2320	5.207	11.242	Up
145200	LINC00239	long intergenic non-protein coding RNA 239	3.186	19.959	Up
5527	PPP2R5C	protein phosphatase 2 regulatory subunit B'gamma	1.101	11.305	Up

1.08E+08	LOC107984658	uncharacterized LOC107984658	1.296	10.242	Up
1.08E+08	LOC107984659		1.899	24.019	Up
55778	ZNF839	zinc finger protein 839	0.483	2.003	Up
81693	AMN	amnion associated transmembrane protein	1.26	4.326	Up
1E+08	ZBTB42	zinc finger and BTB domain containing 42	0.45	2.594	Up
196872	LINC00638	long intergenic non-protein coding RNA 638	0.828	1.309	Up
122616	CLBA1	clathrin binding box of aftiphilin containing 1	1.51	2.505	Up
29933	GPR132	G protein-coupled receptor 132	1.191	2.882	Up
1.03E+08	LINC02298	long intergenic non-protein coding RNA 2298	3.296	4.525	Up
23241	PACS2	phosphofurin acidic cluster sorting protein 2	0.593	1.316	Up
1397	CRIP2	cysteine rich protein 2	2.538	7.371	Up
1396	CRIP1	cysteine rich protein 1	1.593	7.776	Up
9834	FAM30A	family with sequence similarity 30 member A	1.454	2.172	Up
283755	HERC2P3	HERC2 pseudogene 3	1.313	2.246	Up
654499	FAM30C	family with sequence similarity 30 member C	4.196	1.529	Up
1.03E+08	LOC102724760	immunoglobulin heavy variable 1/OR15-1 pseudogene	2.477	5.73	Up
388077	IGHV1OR15-1	immunoglobulin heavy variable 1/OR15-1 (non-functional)	2.437	5.579	Up
400322	HERC2P2	HERC2 pseudogene 2	1.48	1.933	Up
339005	WHAMMP3	WHAMM pseudogene 3	3.252	8.893	Up
1.03E+08	LOC102723564	E3 ubiquitin-protein ligase HERC2-like	2.006	1.34	Up
1.04E+08	SNHG14	small nucleolar RNA host gene 14	0.684	5.147	Up
6638	SNRPN	small nuclear ribonucleoprotein polypeptide N	0.52	1.788	Up
8926	SNURF	SNRPN upstream open reading frame	0.519	1.733	Up
1.01E+08	PWAR6	Prader Willi/Angelman region RNA 6	2.213	7.715	Up
3653	IPW	imprinted in Prader-Willi syndrome	1.289	3.103	Up
57194	ATP10A	ATPase phospholipid transporting 10A (putative)	0.89	4.064	Up
8924	HERC2	HECT and RLD domain containing E3 ubiquitin protein ligase 2	0.727	1.874	Up
440248	HERC2P9	HERC2 pseudogene 9	1.422	1.943	Up
653720	GOLGA8M	golgin A8 family member M	1.75	2.974	Up
440253	WHAMMP2	WHAMM pseudogene 2	3.586	13.772	Up
321	APBA2	amyloid beta precursor protein binding family A member 2	2.581	18.982	Up
1E+08	WHAMMP4	WHAMM pseudogene 4	2.438	12.211	Up
1.03E+08	ARHGAP11B-DT	ARHGAP11B divergent transcript	1.82	4.024	Up
54893	MTMR10	myotubularin related protein 10	0.568	2.692	Up
1.05E+08	LOC105370939	uncharacterized LOC105370939	2.728	4.134	Up
1.08E+08	LOC107987222		2.663	5.446	Up
1E+08	WHAMMP1	WHAMM pseudogene 1	2.084	4.265	Up
1.01E+08	LINC02256	long intergenic non-protein coding RNA 2256	3.032	2.957	Up
6447	SCG5	secretogranin V	2.846	2.155	Up

26585	GREM1	gremlin 1, DAN family BMP antagonist	4.925	7.65	Up
342184	FMN1	formin 1	4.717	2.016	Up
9990	SLC12A6	solute carrier family 12 member 6	0.506	1.366	Up
254531	LPCAT4	lysophosphatidylcholine acyltransferase 4	1.563	8.801	Up
7057	THBS1	thrombospondin 1	4.434	16.879	Up
1E+08	SRP14-DT	SRP14 divergent transcript	1.306	5.884	Up
388115	CCDC9B	coiled-coil domain containing 9B	2.176	1.454	Up
643338	C15orf62	chromosome 15 open reading frame 62	2.136	4.871	Up
84936	ZFYVE19	zinc finger FYVE-type containing 19	0.449	1.521	Up
8681	JMJD7-PLA2G4B	JMJD7-PLA2G4B readthrough	1.44	3.954	Up
1E+08	JMJD7	jumonji domain containing 7	0.944	6.059	Up
1E+08	PLA2G4B	phospholipase A2 group IVB	2.145	3.469	Up
23339	VPS39	VPS39 subunit of HOPS complex	0.673	3.693	Up
2595	GANC	glucosidase alpha, neutral C	0.739	4.377	Up
825	CAPN3	calpain 3	2.361	2.394	Up
57519	STARD9	StAR related lipid transfer domain containing 9	1.413	1.801	Up
146059	CDAN1	codanin 1	1.155	6.695	Up
146057	TTBK2	tau tubulin kinase 2	0.859	3.314	Up
23582	CCNDBP1	cyclin D1 binding protein 1	0.549	2.672	Up
619189	SERINC4	serine incorporator 4	0.472	1.92	Up
113201	GOLM2	golgi membrane protein 2	0.634	5.053	Up
51496	CTDSPL2	CTD small phosphatase like 2	0.346	1.63	Up
645212	EIF3J-DT	EIF3J divergent transcript	1.55	7.504	Up
80208	SPG11	SPG11 vesicle trafficking associated, spatacsin	0.637	2.245	Up
2200	FBN1	fibrillin 1	1.296	1.328	Up
9728	SECISBP2L	SECIS binding protein 2 like	0.503	2.081	Up
196951	FAM227B	family with sequence similarity 227 member B	0.766	3.335	Up
79895	ATP8B4	ATPase phospholipid transporting 8B4 (putative)	1.153	2.149	Up
55056	GABPB1-IT1	GABPB1 intronic transcript	1.591	10.533	Up
1E+08	GABPB1-AS1	GABPB1 antisense RNA 1	0.662	2.982	Up
10681	GNB5	G protein subunit beta 5	1.068	12.856	Up
1E+08	CERNA1	competing endogenous lncRNA 1 for miR-4707-5p and miR-4767	1.624	2.061	Up
56204	ATOSA	atos homolog A	1.851	12.917	Up
1.01E+08	DNAAF4-CCPG1	DNAAF4-CCPG1 readthrough (NMD candidate)	0.917	3.024	Up
9236	CCPG1	cell cycle progression 1	0.9	3.026	Up
64864	RFX7	regulatory factor X7	0.426	1.53	Up
145783	TCF12-DT	TCF12 divergent transcript	0.746	1.396	Up
145781	GCOM1	GCOM1, MYZAP-POLR2M combined locus	0.913	4.836	Up
81488	POLR2M	RNA polymerase II subunit M	0.901	5.439	Up
102	ADAM10	ADAM metallopeptidase domain 10	0.797	3.68	Up
54629	MINDY2	MINDY lysine 48 deubiquitinase 2	0.718	2.997	Up
1.02E+08	RORA-AS1	RORA antisense RNA 1	0.966	3.181	Up
7168	TPM1	tropomyosin 1	1.218	4.732	Up
83464	APH1B	aph-1 homolog B, gamma-secretase subunit	0.641	4.034	Up
771	CA12	carbonic anhydrase 12	7.044	4.068	Up
9960	USP3	ubiquitin specific peptidase 3	1.61	21.885	Up
1E+08	USP3-AS1	USP3 antisense RNA 1	1.469	11.508	Up

8925	HERC1	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1	1.245	5.406	Up
23604	DAPK2	death associated protein kinase 2	3.332	8.166	Up
80301	PLEKHO2	pleckstrin homology domain containing O2	0.384	1.614	Up
390595	UBAP1L	ubiquitin associated protein 1 like	2.121	3.086	Up
1.12E+08	LOC112268147		1.158	5.954	Up
54956	PARP16	poly(ADP-ribose) polymerase family member 16	1.097	7.984	Up
9187	SLC24A1	solute carrier family 24 member 1	0.661	2.24	Up
1.01E+08	IQCH-AS1	IQCH antisense RNA 1	0.562	2.547	Up
145853	C15orf61	chromosome 15 open reading frame 61	0.866	4.097	Up
5607	MAP2K5	mitogen-activated protein kinase kinase 5	1.081	9.008	Up
390598	SKOR1	SKI family transcriptional corepressor 1	2.416	2.376	Up
8554	PIAS1	protein inhibitor of activated STAT 1	0.817	3.574	Up
91860	CALML4	calmodulin like 4	0.852	4.359	Up
1.05E+08	LINC02896	long intergenic non-protein coding RNA 2896	3.301	1.884	Up
1.08E+08	LOC107984781	uncharacterized LOC107984781	2.8	5.01	Up
56965	PARP6	poly(ADP-ribose) polymerase family member 6	1.311	6.073	Up
60677	CELF6	CUGBP Elav-like family member 6	2.077	1.475	Up
80072	HEXA-AS1	HEXA antisense RNA 1	1.475	3.287	Up
4756	NEO1	neogenin 1	0.921	1.822	Up
80381	CD276	CD276 molecule	2.11	1.901	Up
1.03E+08	LOC102723750	uncharacterized LOC102723750	1.535	1.356	Up
1198	CLK3	CDC like kinase 3	0.53	2.833	Up
4351	MPI	mannose phosphate isomerase	0.479	2.567	Up
57184	FAM219B	family with sequence similarity 219 member B	0.809	4.812	Up
25942	SIN3A	SIN3 transcription regulator family member A	0.427	2.13	Up
92912	UBE2Q2	ubiquitin conjugating enzyme E2 Q2	0.794	3.159	Up
9051	PSTPIP1	proline-serine-threonine phosphatase interacting protein 1	0.544	1.463	Up
23102	TBC1D2B	TBC1 domain family member 2B	0.724	2.259	Up
123688	HYKK	hydroxylysine kinase	1.68	3.844	Up
5923	RASGRF1	Ras protein specific guanine nucleotide releasing factor 1	2.442	2.008	Up
3603	IL16	interleukin 16	1.3	9.007	Up
80765	STARD5	StAR related lipid transfer domain containing 5	1.894	11.681	Up
84206	MEX3B	mex-3 RNA binding family member B	1.873	3.363	Up
390660	ADAMTS7P1	ADAMTS7 pseudogene 1	1.821	1.319	Up
1E+08	UBE2Q2P2	UBE2Q2 pseudogene 2	1.269	2.033	Up
440295	GOLGA6L9	golgin A6 family like 9	1.32	2.021	Up
1.01E+08	SNHG21	small nucleolar RNA host gene 21	1.069	2.007	Up
123722	FSD2	fibronectin type III and SPRY domain containing 2	1.089	1.39	Up
123720	WHAMM	WASP homolog associated with actin, golgi membranes and microtubules	1.471	5.451	Up
123207	C15orf40	chromosome 15 open reading frame 40	0.399	2.432	Up
643707	GOLGA6L4	golgin A6 family like 4	1.453	1.423	Up
1.03E+08	LOC102724117	golgin subfamily A member 6-like protein 4	1.319	1.455	Up
374650	GOLGA6L5P	golgin A6 family like 5, pseudogene	1.438	1.791	Up

54993	ZSCAN2	zinc finger and SCAN domain containing 2	0.83	5.293	Up
54581	SCAND2P	SCAN domain containing 2 pseudogene	1.441	3.911	Up
9640	ZNF592	zinc finger protein 592	0.616	1.591	Up
5151	PDE8A	phosphodiesterase 8A	0.66	1.855	Up
11214	AKAP13	A-kinase anchoring protein 13	0.57	1.309	Up
64410	KLHL25	kelch like family member 25	1.23	1.858	Up
55070	DET1	DET1 partner of COP1 E3 ubiquitin ligase	0.93	4.226	Up
4240	MFGE8	milk fat globule EGF and factor V/VIII domain containing	2.663	12.192	Up
5346	PLIN1	perilipin 1	3.867	1.984	Up
8800	PEX11A	peroxisomal biogenesis factor 11 alpha	0.82	1.827	Up
290	ANPEP	alanyl aminopeptidase, membrane	1.937	1.924	Up
1.01E+08	ARPIN-AP3S2	ARPIN-AP3S2 readthrough	0.498	2.842	Up
10239	AP3S2	adaptor related protein complex 3 subunit sigma 2	0.486	2.766	Up
348110	ARPIN	actin related protein 2/3 complex inhibitor	2.45	1.537	Up
10509	SEMA4B	semaphorin 4B	1.234	8.042	Up
51335	NGRN	neugrin, neurite outgrowth associated	0.405	2.64	Up
64784	CRTC3	CREB regulated transcription coactivator 3	1.281	14.273	Up
1.02E+08	CRTC3-AS1	CRTC3 antisense RNA 1	1.219	3.674	Up
1.01E+08	CHASERR	CHD2 adjacent suppressive regulatory RNA	0.944	2.878	Up
1106	CHD2	chromodomain helicase DNA binding protein 2	0.853	1.368	Up
56963	RGMA	repulsive guidance molecule BMP co-receptor a	2.171	1.957	Up
440311	LOC440311	NOP53 ribosome biogenesis factor pseudogene	0.929	2.857	Up
3480	IGF1R	insulin like growth factor 1 receptor	1.157	11.769	Up
23336	SYNM	synemin	2.832	1.88	Up
64927	TTC23	tetratricopeptide repeat domain 23	1.786	1.895	Up
1.05E+08	LINC02244	long intergenic non-protein coding RNA 2244	2.385	1.791	Up
145748	LYSMD4	LysM domain containing 4	0.524	1.768	Up
196968	DNM1P46	dynamin 1 pseudogene 46	2.54	2.194	Up
170691	ADAMTS17	ADAM metallopeptidase with thrombospondin type 1 motif 17	1.717	2.338	Up
204219	CERS3	ceramide synthase 3	3.133	2.642	Up
123283	TARS3	threonyl-tRNA synthetase 3	1.411	10.481	Up
8312	AXIN1	axin 1	0.603	1.841	Up
58986	PGAP6	post-GPI attachment to proteins 6	0.57	1.62	Up
1E+08	LOC100134368	uncharacterized LOC100134368	3.605	6.859	Up
1.05E+08	LOC105371036	replaced by ID 58986	2.45	3.793	Up
1.08E+08	LOC107987233	replaced by ID 283948	2.553	2.906	Up
283948	NHLRC4	NHL repeat containing 4	2.146	5.08	Up
57799	RAB40C	RAB40C, member RAS oncogene family	0.501	1.802	Up
1E+08	LOC100287175	uncharacterized LOC100287175	2.447	3.761	Up
9028	RHBDL1	rhomboid like 1	3.893	3.01	Up
146330	FBXL16	F-box and leucine rich repeat protein 16	2.162	41.387	Up
1.08E+08	LOC107984898		2.801	16.392	Up
64499	TPSB2	tryptase beta 2	1.593	1.316	Up

7177	TPSAB1	tryptase alpha/beta 1	1.585	2.609	Up
84572	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma	0.535	2.058	Up
645811	CCDC154	coiled-coil domain containing 154	1.274	1.58	Up
1186	CLCN7	chloride voltage-gated channel 7	0.854	3.329	Up
9742	IFT140	intraflagellar transport 140	1.068	3.023	Up
79652	TMEM204	transmembrane protein 204	3.021	34.49	Up
90864	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3	1.303	10.174	Up
735301	SNHG9	small nucleolar RNA host gene 9	1.039	1.82	Up
5310	PKD1	polycystin 1, transient receptor potential channel interacting	1.085	2.228	Up
1.05E+08	PKD1-AS1	PKD1 antisense RNA 1	1.282	1.923	Up
1.01E+08	SNHG19	small nucleolar RNA host gene 19	1.692	4.45	Up
1877	E4F1	E4F transcription factor 1	0.557	1.705	Up
21	ABCA3	ATP binding cassette subfamily A member 3	0.908	1.839	Up
51005	AMDHD2	amidohydrolase domain containing 2	1.032	5.151	Up
752014	CEMP1	cementum protein 1	2.448	8.567	Up
7755	ZNF205	zinc finger protein 205	1.898	2.29	Up
283876	LINC00921	long intergenic non-protein coding RNA 921	2.971	17.911	Up
91151	TIGD7	tigger transposable element derived 7	1.263	5.217	Up
1.05E+08	LOC105371059	uncharacterized LOC105371059	0.611	1.431	Up
54925	ZSCAN32	zinc finger and SCAN domain containing 32	0.471	2.063	Up
7727	ZNF174	zinc finger protein 174	0.866	9.417	Up
23059	CLUAP1	clusterin associated protein 1	1.081	8.705	Up
197358	NLRC3	NLR family CARD domain containing 3	1.591	8.771	Up
1.02E+08	LOC101929732	uncharacterized LOC101929732	1.871	4.621	Up
1387	CREBBP	CREB binding protein	0.746	1.336	Up
115	ADCY9	adenylate cyclase 9	0.764	1.492	Up
1.01E+08	LINC01569	long intergenic non-protein coding RNA 1569	1.375	3.124	Up
7023	TFAP4	transcription factor AP-4	0.96	7.103	Up
26048	ZNF500	zinc finger protein 500	1.194	5.065	Up
51172	NAGPA	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase	0.619	3.712	Up
25880	TMEM186	transmembrane protein 186	0.501	1.573	Up
1E+08	LOC100130283	uncharacterized LOC100130283	0.992	3.536	Up
23589	CARHSP1	calcium regulated heat stable protein 1	1.401	6.128	Up
80063	ATF7IP2	activating transcription factor 7 interacting protein 2	0.716	1.913	Up
2013	EMP2	epithelial membrane protein 2	3.412	2.57	Up
28955	DEXI	Dexi homolog	0.49	2.01	Up
400499	LOC400499	putative uncharacterized protein LOC400499	1.653	1.331	Up
9516	LITAF	lipopolysaccharide induced TNF factor	0.419	1.674	Up
92017	SNX29	sorting nexin 29	0.918	6.39	Up
642778	NPIPA3	nuclear pore complex interacting protein family member A3	1.447	1.472	Up
642799	NPIPA2	nuclear pore complex interacting protein family member A2	1.477	1.453	Up

1.1E+08	PKD1P3-NPIPA1	PKD1P3-NPIPA1 readthrough	1.85	1.448	Up
1E+08	LOC100288162	uncharacterized LOC100288162	1.927	1.865	Up
9284	NPIPA1	nuclear pore complex interacting protein family member A1	1.696	1.725	Up
23042	PDXDC1	pyridoxal dependent decarboxylase domain containing 1	0.413	3.467	Up
1.05E+08	PKD1P6-NPIPP1	PKD1P6-NPIPP1 readthrough	1.689	1.818	Up
1E+08	NPIPA5	nuclear pore complex interacting protein family member A5	1.754	1.834	Up
9665	MARF1	meiosis regulator and mRNA stability factor 1	1.408	14.032	Up
1.02E+08	MIR6506	microRNA 6506	1.452	4.39	Up
4629	MYH11	myosin heavy chain 11	0.588	1.761	Up
339044	PKD1P1	polycystin 1, transient receptor potential channel interacting pseudogene 1	1.777	1.376	Up
1.01E+08	NPIPA7	nuclear pore complex interacting protein family member A7	1.689	1.597	Up
64131	XYLT1	xylosyltransferase 1	2.801	10.087	Up
1.03E+08	LOC102723692	uncharacterized LOC102723692	2.404	6.315	Up
1.1E+08	PKD1P4-NPIPA8	PKD1P4-NPIPA8 readthrough	1.743	2.017	Up
1.01E+08	NPIPA8	nuclear pore complex interacting protein family member A8	1.666	1.541	Up
1.1E+08	PKD1P5-LOC105376752	PKD1P5-LOC105376752 readthrough	1.68	2.171	Up
6210	RPS15A	ribosomal protein S15a	1.283	2.79	Up
51573	GDE1	glycerophosphodiester phosphodiesterase 1	0.457	2.703	Up
9738	CCP110	centriolar coiled-coil protein 110	0.546	2.025	Up
6296	ACSM3	acyl-CoA synthetase medium chain family member 3	1.275	2.81	Up
57146	LDAF1	lipid droplet assembly factor 1	2.312	14.167	Up
10261	IGSF6	immunoglobulin superfamily member 6	3.672	7.859	Up
730092	RRN3P1	RRN3 pseudogene 1	0.81	1.605	Up
1039	CDR2	cerebellar degeneration related protein 2	0.603	2.872	Up
23062	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.604	3.961	Up
27327	TNRC6A	trinucleotide repeat containing adaptor 6A	0.852	1.802	Up
554206	LOC554206	leucine carboxyl methyltransferase 1 pseudogene	0.903	1.357	Up
51451	LCMT1	leucine carboxyl methyltransferase 1	0.677	2.078	Up
79831	KDM8	lysine demethylase 8	0.558	1.827	Up
388228	SBK1	SH3 domain binding kinase 1	1.891	10.994	Up
112869	SGF29	SAGA complex associated factor 29	0.971	3.564	Up
6817	SULT1A1	sulfotransferase family 1A member 1	0.981	3.239	Up
25970	SH2B1	SH2B adaptor protein 1	0.945	4.06	Up
1.08E+08	LOC107984832		2.171	1.383	Up
445329	SULT1A4	sulfotransferase family 1A member 4	1.751	2.321	Up
388242	LOC388242	SAGA complex associated factor 29 pseudogene	1.561	1.548	Up
1.05E+08	LOC105371168	uncharacterized LOC105371168	2.46	2.552	Up
283897	C16orf54	chromosome 16 open reading frame 54	2.559	48.35	Up

1.08E+08	KCTD13-DT	KCTD13 divergent transcript	3.519	3.194	Up
124446	TMEM219	transmembrane protein 219	1.025	5.093	Up
6911	TBX6	T-box transcription factor 6	2.235	2.057	Up
83719	YPEL3	yippee like 3	2.327	35.455	Up
79153	GDPD3	glycerophosphodiester phosphodiesterase domain containing 3	3.261	5.366	Up
6818	SULT1A3	sulfotransferase family 1A member 3	1.861	2.513	Up
613038	LOC613038	SAGA complex associated factor 29 pseudogene	1.505	1.521	Up
1.08E+08	ZNF747-DT	ZNF747 divergent transcript	1.039	1.989	Up
146542	ZNF688	zinc finger protein 688	0.871	3.863	Up
1.01E+08	TMEM265	transmembrane protein 265	0.792	2.829	Up
93129	ORAI3	ORAI calcium release-activated calcium modulator 3	1.651	9.499	Up
80270	HSD3B7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	2.673	3.921	Up
1.02E+08	LOC101928762	uncharacterized LOC101928762	1.776	1.31	Up
9726	ZNF646	zinc finger protein 646	0.59	1.933	Up
339105	PRSS53	serine protease 53	1.158	2.29	Up
146547	PRSS36	serine protease 36	1.199	1.477	Up
29108	PYCARD	PYD and CARD domain containing	1.513	7.351	Up
1.01E+08	PYCARD-AS1	PYCARD antisense RNA 1	1.361	5.438	Up
3687	ITGAX	integrin subunit alpha X	2.712	3.617	Up
6477	SIAH1	siah E3 ubiquitin protein ligase 1	0.352	2.025	Up
1.12E+08	LOC112268166		0.521	2.84	Up
113	ADCY7	adenylate cyclase 7	0.981	1.992	Up
85407	NKD1	NKD inhibitor of WNT signaling pathway 1	2.252	8.448	Up
80205	CHD9	chromodomain helicase DNA binding protein 9	0.93	2.732	Up
1.03E+08	LOC102723373	uncharacterized LOC102723373	3.124	1.823	Up
5934	RBL2	RB transcriptional corepressor like 2	1.71	11.767	Up
64400	AKTIP	AKT interacting protein	0.946	3.985	Up
4313	MMP2	matrix metallopeptidase 2	1.646	2.147	Up
54947	LPCAT2	lysophosphatidylcholine acyltransferase 2	1.742	3.516	Up
390732	CES1P2	carboxylesterase 1 pseudogene 2	2.333	1.927	Up
51716	CES1P1	carboxylesterase 1 pseudogene 1	3.399	2.819	Up
1066	CES1	carboxylesterase 1	2.598	6.543	Up
2775	GNAO1	G protein subunit alpha o1	3.935	11.073	Up
267	AMFR	autocrine motility factor receptor	0.852	7.287	Up
583	BBS2	Bardet-Biedl syndrome 2	1.623	8.082	Up
23568	ARL2BP	ADP ribosylation factor like GTPase 2 binding protein	0.848	2.516	Up
51090	PLLP	plasmolipin	3.051	3.102	Up
1.08E+08	LOC107984852	uncharacterized LOC107984852	3.237	2.903	Up
3801	KIFC3	kinesin family member C3	1.145	1.381	Up
57567	ZNF319	zinc finger protein 319	1.026	5.604	Up
1459	CSNK2A2	casein kinase 2 alpha 2	0.452	2.707	Up
1.01E+08	LINC00920	long intergenic non-protein coding RNA 920	3.239	9.642	Up

123920	CMTM3	CKLF like MARVEL transmembrane domain containing 3	0.334	1.635	Up
8824	CES2	carboxylesterase 2	0.536	2.364	Up
1.02E+08	ATP6V0D1-DT	ATP6V0D1 divergent transcript	1.267	3.394	Up
388284	C16orf86	chromosome 16 open reading frame 86	2.607	6.831	Up
57215	THAP11	THAP domain containing 11	0.787	3.688	Up
123904	NRN1L	neuritin 1 like	2.73	2.679	Up
3931	LCAT	lecithin-cholesterol acyltransferase	1.67	1.565	Up
64174	DPEP2	dipeptidase 2	4.683	95.528	Up
4775	NFATC3	nuclear factor of activated T cells 3	0.405	1.372	Up
80004	ESRP2	epithelial splicing regulatory protein 2	0.494	1.589	Up
84138	SLC7A6OS	solute carrier family 7 member 6 opposite strand	0.355	1.563	Up
146198	ZFP90	ZFP90 zinc finger protein	1.355	14.246	Up
1001	CDH3	cadherin 3	3.29	2.886	Up
6645	SNTB2	syntrophin beta 2	1.313	3.537	Up
283970	PDXDC2P-NPIPB14P	PDXDC2P-NPIPB14P readthrough	1.047	3.508	Up
55066	PDPR	pyruvate dehydrogenase phosphatase regulatory subunit	0.822	2.593	Up
400541	LOC400541	uncharacterized LOC400541	1.12	2.565	Up
92154	MTSS2	MTSS I-BAR domain containing 2	1.381	1.552	Up
7567	ZNF19	zinc finger protein 19	1.252	2.399	Up
342371	ATXN1L	ataxin 1 like	0.397	1.559	Up
55565	ZNF821	zinc finger protein 821	1.347	5.932	Up
342372	PKD1L3	polycystin 1 like 3, transient receptor potential channel interacting	1.508	1.547	Up
2734	GLG1	golgi glycoprotein 1	1.178	15.197	Up
79583	TMEM231	transmembrane protein 231	1.18	3.722	Up
23536	ADAT1	adenosine deaminase tRNA specific 1	0.68	2.848	Up
1.05E+08	LOC105371348	uncharacterized LOC105371348	1.554	1.345	Up
1E+08	SYCE1L	synaptonemal complex central element protein 1 like	0.639	1.76	Up
283927	NUDT7	nudix hydrolase 7	1.283	4.394	Up
23300	ATMIN	ATM interactor	0.468	2.217	Up
80790	CMIP	c-Maf inducing protein	0.869	2.818	Up
5336	PLCG2	phospholipase C gamma 2	1.066	1.708	Up
23417	MLYCD	malonyl-CoA decarboxylase	0.681	5.169	Up
83693	HSDL1	hydroxysteroid dehydrogenase like 1	0.671	1.738	Up
1.05E+08	ATP2C2-AS1	ATP2C2 antisense RNA 1	3.398	1.817	Up
57707	MEAK7	MTOR associated protein, eak-7 homolog	0.992	4.274	Up
79786	KLHL36	kelch like family member 36	0.786	5.107	Up
55625	ZDHHC7	zinc finger DHHC-type palmitoyltransferase 7	0.463	1.688	Up
9764	KIAA0513	KIAA0513	1.077	5.416	Up
404550	C16orf74	chromosome 16 open reading frame 74	4.301	11.79	Up
64779	MTHFSD	methenyltetrahydrofolate synthetase domain containing	0.6	2.982	Up
81631	MAP1LC3B	microtubule associated protein 1 light chain 3 beta	0.493	2.71	Up
23174	ZCCHC14	zinc finger CCHC-type containing 14	1.451	7.98	Up
54971	BANP	BTG3 associated nuclear protein	1.063	5.532	Up
197187	SNAI3-AS1	SNAI3 antisense RNA 1	1.897	7.614	Up
333929	SNAI3	snail family transcriptional repressor 3	3.026	32.121	Up
115992	RNF166	ring finger protein 166	2.629	27.789	Up
863	CBFA2T3	CBFA2/RUNX1 partner transcriptional co-repressor 3	1.042	2.23	Up

197322	ACSF3	acyl-CoA synthetase family member 3	0.502	1.94	Up
1.02E+08	LOC101930112	uncharacterized LOC101930112	1.212	4.091	Up
606500	SNORD68	small nucleolar RNA, C/D box 68	1.883	6.72	Up
27132	CPNE7	copine 7	1.919	3.621	Up
92822	ZNF276	zinc finger protein 276	1.841	12.646	Up
2175	FANCA	FA complementation group A	0.822	3.428	Up
4157	MC1R	melanocortin 1 receptor	2.094	1.828	Up
1.02E+08	LOC101927999	putative uncharacterized protein FLJ44672	1.601	1.445	Up
1.05E+08	LINC02193	long intergenic non-protein coding RNA 2193	1.757	1.65	Up
1.02E+08	LOC101929823	uncharacterized LOC101929823	1.922	1.484	Up
1.01E+08	RPH3AL-AS1	RPH3AL antisense RNA 1	4.972	2.546	Up
51031	GLOD4	glyoxalase domain containing 4	0.713	3.955	Up
51763	INPP5K	inositol polyphosphate-5-phosphatase K	0.656	3.808	Up
1E+08	PITPNA-AS1	PITPNA antisense RNA 1	1.408	4.005	Up
124935	SLC43A2	solute carrier family 43 member 2	0.649	1.317	Up
124997	WDR81	WD repeat domain 81	0.999	5.405	Up
5345	SERPINF2	serpin family F member 2	3.763	3.877	Up
5176	SERPINF1	serpin family F member 1	1.489	1.895	Up
114826	SMYD4	SET and MYND domain containing 4	0.74	3.459	Up
9905	SGSM2	small G protein signaling modulator 2	1.163	4.135	Up
1.02E+08	LOC101927864	uncharacterized LOC101927864	1.649	3.144	Up
4335	MNT	MAX network transcriptional repressor	1.298	6.104	Up
23108	RAP1GAP2	RAP1 GTPase activating protein 2	3.096	11.55	Up
7442	TRPV1	transient receptor potential cation channel subfamily V member 1	1.968	3.063	Up
3682	ITGAE	integrin subunit alpha E	1.03	5.65	Up
84254	CAMKK1	calcium/calmodulin dependent protein kinase kinase 1	1.169	2.863	Up
5023	P2RX1	purinergic receptor P2X 1	1.56	2.338	Up
23140	ZZEF1	zinc finger ZZ-type and EF-hand domain containing 1	0.853	1.781	Up
124936	CYB5D2	cytochrome b5 domain containing 2	0.444	1.402	Up
409	ARRB2	arrestin beta 2	0.72	7.025	Up
58191	CXCL16	C-X-C motif chemokine ligand 16	1.261	2.572	Up
284013	VMO1	vitelline membrane outer layer 1 homolog	4.204	6.021	Up
50488	MINK1	misshapen like kinase 1	0.955	5.866	Up
1.05E+08	LOC105371501	uncharacterized LOC105371501	2.072	1.607	Up
1E+08	ZNF594-DT	ZNF594 divergent transcript	1.817	1.734	Up
728392	LOC728392	uncharacterized LOC728392	1.239	4.265	Up
22861	NLRP1	NLR family pyrin domain containing 1	1.942	5.68	Up
1.01E+08	ALOX15P1	arachidonate 15-lipoxygenase pseudogene 1	1.031	1.452	Up
284111	SLC13A5	solute carrier family 13 member 5	1.95	1.33	Up
1.01E+08	ALOX12-AS1	ALOX12 antisense RNA 1	0.791	1.523	Up
239	ALOX12	arachidonate 12-lipoxygenase, 12S type	1.864	14.414	Up
10462	CLEC10A	C-type lectin domain containing 10A	3.064	8.376	Up
11337	GABARAP	GABA type A receptor-associated protein	0.569	1.68	Up

9744	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.648	5.157	Up
8711	TNK1	tyrosine kinase non receptor 1	0.898	7.262	Up
1.01E+08	TMEM256-PLSCR3	TMEM256-PLSCR3 readthrough (NMD candidate)	0.41	2.196	Up
57048	PLSCR3	phospholipid scramblase 3	0.418	2.408	Up
1140	CHRNB1	cholinergic receptor nicotinic beta 1 subunit	0.682	1.72	Up
57659	ZBTB4	zinc finger and BTB domain containing 4	0.986	7.471	Up
407977	TNFSF12-TNFSF13	TNFSF12-TNFSF13 readthrough	0.549	1.55	Up
8742	TNFSF12	TNF superfamily member 12	0.513	1.567	Up
8741	TNFSF13	TNF superfamily member 13	0.872	1.455	Up
968	CD68	CD68 molecule	2.786	7.716	Up
1.01E+08	LOC100996842	uncharacterized LOC100996842	0.748	1.921	Up
112483	SAT2	spermidine/spermine N1-acetyltransferase family member 2	0.829	5.817	Up
284023	RNF227	ring finger protein 227	1.277	6.995	Up
59344	ALOXE3	arachidonate lipoxygenase 3	4.943	3.943	Up
5187	PER1	period circadian regulator 1	0.941	2.964	Up
6844	VAMP2	vesicle associated membrane protein 2	0.716	3.173	Up
84314	TMEM107	transmembrane protein 107	2.334	19.413	Up
727676	SNORD118	small nucleolar RNA, C/D box 118	2.452	1.941	Up
54785	BORCS6	BLOC-1 related complex subunit 6	0.868	5.463	Up
284029	LINC00324	long intergenic non-protein coding RNA 324	2.454	13.419	Up
1E+08	TRW-CCA1-1	tRNA-Trp (anticodon CCA) 1-1	2.115	3.695	Up
1E+08	TRD-GTC2-11	tRNA-Asp (anticodon GTC) 2-11	2.598	3.92	Up
80169	CTC1	CST telomere replication complex component 1	1.094	8.725	Up
1E+08	TRI-AAT4-1	tRNA-Ile (anticodon AAT) 4-1	1.553	3.082	Up
124751	KRBA2	KRAB-A domain containing 2	1.293	2.62	Up
6154	RPL26	ribosomal protein L26	0.832	1.318	Up
1.08E+08	LOC107985063		1.886	5.058	Up
23533	PIK3R5	phosphoinositide-3-kinase regulatory subunit 5	1.591	15.696	Up
8522	GAS7	growth arrest specific 7	3.702	17.146	Up
56985	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent	2.253	18.968	Up
388335	TMEM220	transmembrane protein 220	2.181	15.481	Up
1.01E+08	MAGOH2P	mago homolog 2, pseudogene	3.188	7.739	Up
7566	ZNF18	zinc finger protein 18	1.059	7.415	Up
9955	HS3ST3A1	heparan sulfate-glucosamine 3-sulfotransferase 3A1	1.188	2.308	Up
1.01E+08	COX10-DT	COX10 divergent transcript	0.928	2.303	Up
9953	HS3ST3B1	heparan sulfate-glucosamine 3-sulfotransferase 3B1	1.144	4.923	Up
5376	PMP22	peripheral myelin protein 22	3.052	5.555	Up
4213	MEIS3P1	Meis homeobox 3 pseudogene 1	0.776	1.477	Up
136	ADORA2B	adenosine A2b receptor	2.268	4.912	Up
125150	ZSWIM7	zinc finger SWIM-type containing 7	0.965	9.501	Up
125144	SNHG29	small nucleolar RNA host gene 29	1.078	2.148	Up
692087	SNORD49B	small nucleolar RNA, C/D box 49B	1.143	3.626	Up
388341	LRRC75A	leucine rich repeat containing 75A	1.056	1.81	Up
57336	ZNF287	zinc finger protein 287	0.745	5.357	Up

57547	ZNF624	zinc finger protein 624	1.337	11.454	Up
23164	MPRIP	myosin phosphatase Rho interacting protein	0.653	1.685	Up
201163	FLCN	folliculin	1.019	6.996	Up
146691	TOM1L2	target of myb1 like 2 membrane trafficking protein	1.319	12.348	Up
79018	GID4	GID complex subunit 4 homolog	0.594	1.899	Up
125170	MIEF2	mitochondrial elongation factor 2	1.173	5.42	Up
140775	SMCR8	SMCR8-C9orf72 complex subunit	0.716	3.388	Up
2310	FOXO3B	forkhead box O3B	0.588	1.984	Up
147166	TRIM16L	tripartite motif containing 16 like	0.852	2.553	Up
125206	SLC5A10	solute carrier family 5 member 10	2.149	6.759	Up
10750	GRAP	GRB2 related adaptor protein	2.628	9.113	Up
400581	GRAPL	GRB2 related adaptor protein like	2.624	11.512	Up
79999	GRAPL-AS1	GRAPL antisense RNA 1	2.798	2.058	Up
388436	LOC388436	uncharacterized protein ENSP00000382042	3.44	4.044	Up
5598	MAPK7	mitogen-activated protein kinase 7	0.84	2.29	Up
7732	RNF112	ring finger protein 112	4.151	1.439	Up
256302	NATD1	N-acetyltransferase domain containing 1	2.917	32.439	Up
201229	LYRM9	LYR motif containing 9	1.443	11.715	Up
2319	FLOT2	flotillin 2	0.558	5.229	Up
147015	DHRS13	dehydrogenase/reductase 13	0.359	1.431	Up
57649	PHF12	PHD finger protein 12	0.979	3.655	Up
51268	PIPOX	pipecolic acid and sarcosine oxidase	1.084	1.364	Up
116236	ABHD15	abhydrolase domain containing 15	0.783	5.979	Up
85464	SSH2	slingshot protein phosphatase 2	1.796	15.352	Up
374786	EFCAB5	EF-hand calcium binding domain 5	1.364	2.184	Up
51379	CRLF3	cytokine receptor like factor 3	0.667	1.892	Up
84282	RNF135	ring finger protein 135	0.861	1.487	Up
4763	NF1	neurofibromin 1	0.995	2.684	Up
2124	EVI2B	ecotropic viral integration site 2B	1.433	4.785	Up
2123	EVI2A	ecotropic viral integration site 2A	1.135	2.102	Up
1.01E+08	MIR4724	microRNA 4724	1.514	1.887	Up
114659	LRRC37B	leucine rich repeat containing 37B	2.443	7.626	Up
6458	SH3GL1P1	SH3 domain containing GRB2 like 1, endophilin A2 pseudogene 1	2.425	1.682	Up
8851	CDK5R1	cyclin dependent kinase 5 regulatory subunit 1	2.975	8.52	Up
6347	CCL2	C-C motif chemokine ligand 2	3.228	9.244	Up
124842	TMEM132E	transmembrane protein 132E	2.016	2.73	Up
117584	RFFL	ring finger and FYVE like domain containing E3 ubiquitin protein ligase	0.681	3.589	Up
1.01E+08	RAD51L3-RFFL	RAD51L3-RFFL readthrough	0.642	2.889	Up
54752	FNDC8	fibronectin type III domain containing 8	0.847	1.398	Up
146862	UNC45B	unc-45 myosin chaperone B	4.808	2.545	Up
1.05E+08	LOC105371932	uncharacterized LOC105371932	1.132	2.471	Up
162394	SLFN5	schlafen family member 5	1.129	1.441	Up
79148	MMP28	matrix metallopeptidase 28	5.56	13.406	Up
414059	TBC1D3B	TBC1 domain family member 3B	2.444	4.798	Up
1.03E+08	TBC1D3I	TBC1 domain family member 3I	2.57	5.809	Up

1.01E+08	TBC1D3G	TBC1 domain family member 3G	2.751	4.544	Up
729877	TBC1D3H	TBC1 domain family member 3H	2.953	6.807	Up
84218	TBC1D3F	TBC1 domain family member 3F	2.513	6.312	Up
1.01E+08	TBC1D3JP	TBC1 domain family member 3J, pseudogene	2.469	3.819	Up
9326	ZNHIT3	zinc finger HIT-type containing 3	0.473	1.415	Up
79893	GGNBP2	gametogenetin binding protein 2	0.323	1.636	Up
11276	SYNRG	synergin gamma	0.417	1.62	Up
1.01E+08	TBC1D3K	TBC1 domain family member 3K	2.613	6.353	Up
1.01E+08	TBC1D3L	TBC1 domain family member 3L	2.698	3.749	Up
1.01E+08	TBC1D3D	TBC1 domain family member 3D	2.624	7.261	Up
414060	TBC1D3C	TBC1 domain family member 3C	2.68	5.234	Up
1.03E+08	TBC1D3E	TBC1 domain family member 3E	0.872	4.287	Up
729873	TBC1D3	TBC1 domain family member 3	2.835	5.508	Up
8396	PIP4K2B	phosphatidylinositol-5-phosphate 4-kinase type 2 beta	0.846	8.08	Up
1.01E+08	LINC00672	long intergenic non-protein coding RNA 672	3.482	2.816	Up
84961	FBXL20	F-box and leucine rich repeat protein 20	1.445	5.698	Up
10948	STARD3	StAR related lipid transfer domain containing 3	0.437	2.134	Up
8557	TCAP	titin-cap	2.047	3.496	Up
93210	PGAP3	post-GPI attachment to proteins phospholipase 3	0.987	4.029	Up
2064	ERBB2	erb-b2 receptor tyrosine kinase 2	1.234	4.526	Up
7067	THRA	thyroid hormone receptor alpha	2.237	32.247	Up
9572	NR1D1	nuclear receptor subfamily 1 group D member 1	2.124	22.02	Up
339287	MSL1	MSL complex subunit 1	0.528	2.922	Up
1236	CCR7	C-C motif chemokine receptor 7	1.109	7.334	Up
6777	STAT5B	signal transducer and activator of transcription 5B	0.619	3.087	Up
162427	RETREG3	reticulophagy regulator family member 3	0.876	8.936	Up
2145	EZH1	enhancer of zeste 1 polycomb repressive complex 2 subunit	1.502	14.918	Up
6155	RPL27	ribosomal protein L27	0.868	1.358	Up
10493	VAT1	vesicle amine transport 1	1.261	11.023	Up
10230	NBR2	neighbor of BRCA1 lncRNA 2	1.06	4.692	Up
4077	NBR1	NBR1 autophagy cargo receptor	0.644	5.279	Up
1E+08	LINC00910	long intergenic non-protein coding RNA 910	2.266	7.631	Up
1845	DUSP3	dual specificity phosphatase 3	0.615	1.326	Up
84336	TMEM101	transmembrane protein 101	0.521	1.322	Up
10014	HDAC5	histone deacetylase 5	0.648	2.62	Up
92591	ASB16	ankyrin repeat and SOCS box containing 16	1.482	3.231	Up
339201	ASB16-AS1	ASB16 antisense RNA 1	1.593	11.803	Up
7343	UBTF	upstream binding transcription factor	0.503	1.574	Up
2896	GRN	granulin precursor	0.604	2.314	Up
2535	FZD2	frizzled class receptor 2	2.953	3.873	Up
79877	DCAKD	dephospho-CoA kinase domain containing	0.519	3.583	Up
79777	ACBD4	acyl-CoA binding domain containing 4	1.201	5.613	Up
124783	SPATA32	spermatogenesis associated 32	2.061	2.273	Up
1.05E+08	LOC105369225	uncharacterized LOC105369225	1.144	1.589	Up

55073	LRRC37A4P	leucine rich repeat containing 37 member A4, pseudogene	1.961	3.462	Up
284058	KANSL1	KAT8 regulatory NSL complex subunit 1	1.019	5.818	Up
644246	KANSL1-AS1	KANSL1 antisense RNA 1	1.674	2.784	Up
9884	LRRC37A	leucine rich repeat containing 37A	1.49	1.468	Up
1.08E+08	LOC107987254		2.008	1.501	Up
474170	LRRC37A2	leucine rich repeat containing 37 member A2	1.478	1.487	Up
644297	FAM215B	family with sequence similarity 215 member B	2.22	1.952	Up
1.02E+08	LOC101927060	uncharacterized LOC101927060	0.673	2.025	Up
3690	ITGB3	integrin subunit beta 3	3.27	6.067	Up
114881	OSBPL7	oxysterol binding protein like 7	1.988	7.306	Up
124995	MRPL10	mitochondrial ribosomal protein L10	0.541	4.458	Up
90507	SCRN2	secernin 2	0.762	3.665	Up
1.01E+08	HOXB-AS1	HOXB cluster antisense RNA 1	2.215	2.16	Up
3213	HOXB3	homeobox B3	1.584	1.579	Up
22834	ZNF652	zinc finger protein 652	1.513	15.339	Up
1.03E+08	ZNF652-AS1	ZNF652 antisense RNA 1	1.684	1.401	Up
81558	FAM117A	family with sequence similarity 117 member A	1.186	24.622	Up
11143	KAT7	lysine acetyltransferase 7	0.451	2.663	Up
5164	PDK2	pyruvate dehydrogenase kinase 2	0.571	2.79	Up
80221	ACSF2	acyl-CoA synthetase family member 2	1.311	8.214	Up
1101	CHAD	chondroadherin	3.648	2.205	Up
55316	RSAD1	radical S-adenosyl methionine domain containing 1	0.664	4.971	Up
8714	ABCC3	ATP binding cassette subfamily C member 3	4.517	6.698	Up
10140	TOB1	transducer of ERBB2, 1	1.404	10.288	Up
400604	TOB1-AS1	TOB1 antisense RNA 1	3.1	8.033	Up
54799	MBTD1	mbt domain containing 1	1.435	13.559	Up
9241	NOG	noggin	5.234	16.66	Up
124540	MSI2	musashi RNA binding protein 2	0.606	2.915	Up
404093	CUEDC1	CUE domain containing 1	1.746	1.467	Up
7716	VEZF1	vascular endothelial zinc finger 1	0.471	3.199	Up
1.02E+08	LOC101929185	uncharacterized LOC101929185	1.484	2.556	Up
55545	MSX2P1	msh homeobox 2 pseudogene 1	1.812	6.095	Up
8288	EPX	eosinophil peroxidase	4.051	1.706	Up
4353	MPO	myeloperoxidase	5.872	6.464	Up
5414	SEPTIN4	septin 4	1.455	1.961	Up
4591	TRIM37	tripartite motif containing 37	0.392	1.563	Up
284161	GDPD1	glycerophosphodiester phosphodiesterase domain containing 1	1.283	2.343	Up
388403	YPEL2	yippee like 2	3.026	11.379	Up
79665	DHX40	DEAH-box helicase 40	0.49	1.623	Up
1.05E+08	HEATR6-DT	HEATR6 divergent transcript	5.245	3.776	Up
645638	WFDC21P	WAP four-disulfide core domain 21, pseudogene	6.693	6.216	Up
54828	BCAS3	BCAS3 microtubule associated cell migration factor	1.365	7.725	Up
11011	TLK2	tousled like kinase 2	0.366	2.49	Up
26115	TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	1.481	4.984	Up

1636	ACE	angiotensin I converting enzyme	2.17	6.974	Up
4215	MAP3K3	mitogen-activated protein kinase kinase kinase 3	1.1	31.378	Up
1.02E+08	LOC101927898	uncharacterized LOC101927898	1.531	2.634	Up
729683	LOC729683	uncharacterized LOC729683	0.802	1.966	Up
2081	ERN1	endoplasmic reticulum to nucleus signaling 1	1.822	6.372	Up
1.05E+08	SNHG25	small nucleolar RNA host gene 25	1.268	1.906	Up
284021	MILR1	mast cell immunoglobulin like receptor 1	1.423	3.087	Up
11232	POLG2	DNA polymerase gamma 2, accessory subunit	0.765	4.302	Up
90799	CEP95	centrosomal protein 95	0.733	3.539	Up
64750	SMURF2	SMAD specific E3 ubiquitin protein ligase 2	1.184	4.452	Up
1.02E+08	LOC101929240	U5 small nuclear ribonucleoprotein 200 kDa helicase-like	1.156	1.465	Up
440456	PLEKHM1P1	pleckstrin homology and RUN domain containing M1 pseudogene 1	0.876	1.374	Up
8313	AXIN2	axin 2	1.439	33.005	Up
5578	PRKCA	protein kinase C alpha	0.62	1.753	Up
26207	PITPNC1	phosphatidylinositol transfer protein cytoplasmic 1	1.824	15.036	Up
1.02E+08	LOC101928045	uncharacterized LOC101928045	1.671	9.471	Up
1.05E+08	LOC105371870	uncharacterized LOC105371870	1.253	3.122	Up
440461	ARHGAP27P2	Rho GTPase activating protein 27 pseudogene 2	1.067	1.835	Up
5608	MAP2K6	mitogen-activated protein kinase kinase 6	3.625	24.439	Up
1.05E+08	LOC105371887	uncharacterized LOC105371887	0.629	1.329	Up
9382	COG1	component of oligomeric golgi complex 1	0.522	2.834	Up
54549	SDK2	sidekick cell adhesion molecule 2	2.502	5.656	Up
6169	RPL38	ribosomal protein L38	0.941	1.692	Up
85001	MGC16275	uncharacterized protein MGC16275	1.107	1.703	Up
94015	TTYH2	tweety family member 2	2.06	5.554	Up
124602	KIF19	kinesin family member 19	4.903	3.198	Up
11314	CD300A	CD300a molecule	1.896	10.528	Up
124599	CD300LB	CD300 molecule like family member b	6.438	8.79	Up
10871	CD300C	CD300c molecule	3.421	4.547	Up
326624	RAB37	RAB37, member RAS oncogene family	1.35	3.978	Up
146722	CD300LF	CD300 molecule like family member f	3.571	4.972	Up
9368	NHERF1	NHERF family PDZ scaffold protein 1	0.444	1.321	Up
23510	KCTD2	potassium channel tetramerization domain containing 2	0.603	4.934	Up
9121	SLC16A5	solute carrier family 16 member 5	1.89	3.802	Up
79637	ARMC7	armadillo repeat containing 7	0.654	3.928	Up
80022	MYO15B	myosin XVB	1.671	4.243	Up
9400	RECQL5	RecQ like helicase 5	1.251	5.572	Up
1.08E+08	LOC107985013	uncharacterized LOC107985013	1.143	1.399	Up
201292	TRIM65	tripartite motif containing 65	0.84	9.95	Up
85302	FBF1	Fas binding factor 1	1.854	5.359	Up
1.01E+08	RNF157-AS1	RNF157 antisense RNA 1	1.578	19.332	Up
114804	RNF157	ring finger protein 157	1.08	4.09	Up
84074	QRICH2	glutamine rich 2	1.863	1.703	Up

5635	PRPSAP1	phosphoribosyl pyrophosphate synthetase associated protein 1	0.523	1.606	Up
15	AANAT	aralkylamine N-acetyltransferase	2.495	2.77	Up
114757	CYGB	cytoglobin	4.366	4.79	Up
768206	PRCD	photoreceptor disc component	3.369	3.495	Up
10610	ST6GALNAC2	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	3.621	8.539	Up
55808	ST6GALNAC1	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	2.571	13.958	Up
124512	METTL23	methyltransferase like 23	0.721	2.298	Up
146664	MGAT5B	alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase B	1.813	2.296	Up
1.05E+08	LOC105371899	uncharacterized LOC105371899	5.51	2.656	Up
10801	SEPTIN9	septin 9	1.125	25.645	Up
1.12E+08	LOC112268199	uncharacterized LOC112268199	3.364	22.547	Up
57690	TNRC6C	trinucleotide repeat containing adaptor 6C	0.869	1.912	Up
1E+08	TNRC6C-AS1	replaced by ID 11322	2.746	23.746	Up
11322	TMC6	transmembrane channel like 6	1.112	5.192	Up
147138	TMC8	transmembrane channel like 8	1.448	11.46	Up
7077	TIMP2	TIMP metallopeptidase inhibitor 2	2.63	6.823	Up
64772	ENGASE	endo-beta-N-acetylglucosaminidase	0.925	2.321	Up
57332	CBX8	chromobox 8	0.754	1.476	Up
8535	CBX4	chromobox 4	1.007	5.164	Up
79092	CARD14	caspase recruitment domain family member 14	2.086	2.469	Up
284131	ENDOV	endonuclease V	0.751	1.447	Up
1E+08	LOC100129503		1.259	2.187	Up
440465	BAIAP2-DT	BAIAP2 divergent transcript	1.818	11.567	Up
146705	TEPSIN	TEPSIN adaptor related protein complex 4 accessory protein	1.082	2.974	Up
1.05E+08	LOC105371925	uncharacterized LOC105371925	0.873	1.707	Up
5148	PDE6G	phosphodiesterase 6G	1.522	1.78	Up
51547	SIRT7	sirtuin 7	0.564	1.896	Up
5986	RFNG	RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.859	4.688	Up
284001	CCDC57	coiled-coil domain containing 57	1.359	5.539	Up
10966	RAB40B	RAB40B, member RAS oncogene family	0.808	1.534	Up
64122	FN3K	fructosamine 3 kinase	1.392	5.75	Up
1.08E+08	LOC107987251		2.6	2.561	Up
81035	COLEC12	collectin subfamily member 12	3.972	4.094	Up
645158	CBX3P2	CBX3 pseudogene 2	1.727	3.985	Up
23347	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	1.901	7.974	Up
8736	MYOM1	myomesin 1	1.962	2.243	Up
7050	TGIF1	TGFB induced factor homeobox 1	2.291	11.366	Up
649446	DLGAP1-AS1	DLGAP1 antisense RNA 1	1.781	11.178	Up
84777	DLGAP1-AS2	DLGAP1 antisense RNA 2	3.037	5.004	Up
7541	ZBTB14	zinc finger and BTB domain containing 14	1.305	18.807	Up
1.08E+08	LOC107985144	uncharacterized LOC107985144	2.449	1.909	Up
23136	EPB41L3	erythrocyte membrane protein band 4.1 like 3	2.469	3.137	Up

1.02E+08	NDUFV2-AS1	NDUFV2 antisense RNA 1	1.449	5.152	Up
11031	RAB31	RAB31, member RAS oncogene family	1.249	1.663	Up
2774	GNAL	G protein subunit alpha L	1.136	5.842	Up
57132	CHMP1B	charged multivesicular body protein 1B	0.616	4.682	Up
65258	MPPE1	metallophosphoesterase 1	1.033	8.501	Up
55125	CEP192	centrosomal protein 192	0.992	3.12	Up
753	LDLRAD4	low density lipoprotein receptor class A domain containing 4	1.858	20.133	Up
162655	ZNF519	zinc finger protein 519	0.684	1.886	Up
114799	ESCO1	establishment of sister chromatid cohesion N-acetyltransferase 1	0.627	1.53	Up
1.05E+08	LOC105372019	uncharacterized LOC105372019	3.412	2.691	Up
1.03E+08	TTC39C-AS1	TTC39C antisense RNA 1	2.469	5.714	Up
25925	ZNF521	zinc finger protein 521	2.68	4.346	Up
1824	DSC2	desmocollin 2	4.427	4.395	Up
1.02E+08	DSCAS	DSC1/DSC2 antisense RNA	4.576	2.34	Up
1823	DSC1	desmocollin 1	5.395	12.461	Up
1829	DSG2	desmoglein 2	2.289	3.204	Up
1837	DTNA	dystrobrevin alpha	2.681	1.774	Up
84307	ZNF397	zinc finger protein 397	0.864	1.364	Up
1E+08	ZSCAN30	zinc finger and SCAN domain containing 30	0.644	1.87	Up
252884	ZNF396	zinc finger protein 396	2.554	6.587	Up
80206	FHOD3	formin homology 2 domain containing 3	1.249	1.775	Up
5289	PIK3C3	phosphatidylinositol 3-kinase catalytic subunit type 3	0.541	2.225	Up
1.05E+08	LOC105372092	uncharacterized LOC105372092	3.282	1.345	Up
6563	SLC14A1	solute carrier family 14 member 1 (Kidd blood group)	6.303	4.517	Up
284266	SIGLEC15	sialic acid binding Ig like lectin 15	5.236	4.009	Up
4092	SMAD7	SMAD family member 7	2.119	8.154	Up
54808	DYM	dymeclin	0.53	4.119	Up
26790	SNORD58B	small nucleolar RNA, C/D box 58B	1.724	4.706	Up
4089	SMAD4	SMAD family member 4	0.607	5.154	Up
11201	POLI	DNA polymerase iota	1.618	3.051	Up
6925	TCF4	transcription factor 4	1.267	4.099	Up
1.05E+08	LOC105372141	uncharacterized LOC105372141	1.253	4.477	Up
115701	ALPK2	alpha kinase 2	1.406	3.245	Up
57614	RELCH	RAB11 binding and LisH domain, coiled-coil and HEAT repeat containing	1.201	6.627	Up
5055	SERPINB2	serpin family B member 2	4.625	5.207	Up
92126	DSEL	dermatan sulfate epimerase like	1.55	1.602	Up
79839	CCDC102B	coiled-coil domain containing 102B	1.212	1.663	Up
25914	RTTN	rotatin	0.62	3.321	Up
220158	GTSCR1	Gilles de la Tourette syndrome chromosome region, candidate 1	4.438	7.06	Up
1.05E+08	LOC105372185	uncharacterized LOC105372185	4.313	1.801	Up
201456	FBXO15	F-box protein 15	1.993	4.6	Up
400657	ZNF407-AS1	ZNF407 antisense RNA 1	0.803	3.208	Up

284273	PTGR3	prostaglandin reductase 3	2.06	11.764	Up
10194	TSHZ1	teashirt zinc finger homeobox 1	1.482	10.452	Up
9658	ZNF516	zinc finger protein 516	0.855	2.05	Up
7776	ZNF236	zinc finger protein 236	0.808	1.979	Up
4155	MBP	myelin basic protein	1.797	21.004	Up
1.08E+08	LOC107987261		3.669	2.238	Up
374868	ATP9B	ATPase phospholipid transporting 9B (putative)	0.652	4.042	Up
440498	HSBP1L1	heat shock factor binding protein 1 like 1	0.843	2.898	Up
84552	PARD6G	par-6 family cell polarity regulator gamma	2.121	1.583	Up
399844	LINC01002	long intergenic non-protein coding RNA 1002	1.961	1.585	Up
610	HCN2	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2	1.004	2.314	Up
400668	PRSS57	serine protease 57	1.409	1.889	Up
566	AZU1	azurocidin 1	4.382	2.571	Up
1991	ELANE	elastase, neutrophil expressed	3.373	1.635	Up
91300	R3HDM4	R3H domain containing 4	1.076	8.695	Up
1265	CNN2	calponin 2	1.018	3.181	Up
10347	ABCA7	ATP binding cassette subfamily A member 7	2.201	8.622	Up
23526	ARHGAP45	Rho GTPase activating protein 45	1.085	7.289	Up
90007	MIDN	midnolin	0.483	1.58	Up
1153	CIRBP	cold inducible RNA binding protein	0.319	1.487	Up
10297	APC2	APC regulator of WNT signaling pathway 2	1.313	3.168	Up
148229	ATP8B3	ATPase phospholipid transporting 8B3	1.471	1.341	Up
81926	ABHD17A	abhydrolase domain containing 17A, depalmitoylase	0.728	4.33	Up
1455	CSNK1G2	casein kinase 1 gamma 2	0.426	1.555	Up
55643	BTBD2	BTB domain containing 2	1.215	25.796	Up
645191	LINGO3	leucine rich repeat and Ig domain containing 3	3.034	8.706	Up
56928	SPPL2B	signal peptide peptidase like 2B	0.892	5.167	Up
2788	GNG7	G protein subunit gamma 7	1.575	5.582	Up
148252	DIRAS1	DIRAS family GTPase 1	1.964	2.154	Up
115196	ZNF554	zinc finger protein 554	2.03	12.086	Up
148254	ZNF555	zinc finger protein 555	0.781	2.888	Up
166	TLE5	TLE family member 5, transcriptional modulator	0.865	5.173	Up
8698	S1PR4	sphingosine-1-phosphate receptor 4	1.909	25	Up
284422	SMIM24	small integral membrane protein 24	2.042	1.583	Up
51343	FZR1	fizzy and cell division cycle 20 related 1	0.56	2.53	Up
1E+08	TEKTIP1	tektin bundle interacting protein 1	1.7	1.518	Up
6915	TBXA2R	thromboxane A2 receptor	3.731	21.81	Up
27134	TJP3	tight junction protein 3	1.449	8.054	Up
51341	ZBTB7A	zinc finger and BTB domain containing 7A	0.59	1.361	Up
84699	CREB3L3	cAMP responsive element binding protein 3 like 3	2.786	1.651	Up
170961	ANKRD24	ankyrin repeat domain 24	2.724	4.522	Up
126259	TMIGD2	transmembrane and immunoglobulin domain containing 2	1.831	6.298	Up
10501	SEMA6B	semaphorin 6B	3.619	8.724	Up
23030	KDM4B	lysine demethylase 4B	0.584	1.596	Up
374875	HSD11B1L	hydroxysteroid 11-beta dehydrogenase 1 like	0.923	2.222	Up
25873	RPL36	ribosomal protein L36	0.699	1.408	Up
400673	VMAC	vimentin type intermediate filament associated coiled-coil protein	1.092	4.243	Up
828	CAPS	calcyphosine	1.979	9.065	Up

125981	ACER1	alkaline ceramidase 1	2.753	2.235	Up
84266	ALKBH7	alkB homolog 7	1.045	2.696	Up
79958	DENND1C	DENN domain containing 1C	0.478	2.348	Up
2015	ADGRE1	adhesion G protein-coupled receptor E1	1.048	2.344	Up
1.05E+08	LOC105372256	uncharacterized LOC105372256	2.43	1.999	Up
326342	ADGRE4P	adhesion G protein-coupled receptor E4, pseudogene	2.635	2.573	Up
23370	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18	1.902	7.665	Up
1.08E+08	LOC107985284	uncharacterized LOC107985284	2.952	4.882	Up
56949	XAB2	XPA binding protein 2	0.355	1.412	Up
126006	PCP2	Purkinje cell protein 2	2.593	5.663	Up
199675	MCEMP1	mast cell expressed membrane protein 1	6.694	9.518	Up
30835	CD209	CD209 molecule	2.163	1.379	Up
80164	PRR36	proline rich 36	1.657	1.518	Up
6234	RPS28	ribosomal protein S28	0.855	1.656	Up
256949	KANK3	KN motif and ankyrin repeat domains 3	0.75	1.887	Up
9230	RAB11B	RAB11B, member RAS oncogene family	0.373	2.224	Up
51257	MARCHF2	membrane associated ring-CH-type finger 2	0.378	1.356	Up
84106	PRAM1	PML-RARA regulated adaptor molecule 1	3.237	4.634	Up
84330	ZNF414	zinc finger protein 414	0.528	1.548	Up
4542	MYO1F	myosin IF	1.662	6.14	Up
81794	ADAMTS10	ADAM metallopeptidase with thrombospondin type 1 motif 10	2.676	4.563	Up
374879	ZNF699	zinc finger protein 699	1.169	11.526	Up
84527	ZNF559	zinc finger protein 559	0.93	5.917	Up
1.01E+08	ZNF559-ZNF177	ZNF559-ZNF177 readthrough	0.964	2.729	Up
7730	ZNF177	zinc finger protein 177	1.541	1.683	Up
10781	ZNF266	zinc finger protein 266	0.957	8.946	Up
93134	ZNF561	zinc finger protein 561	0.649	3.549	Up
162993	ZNF846	zinc finger protein 846	1.791	4.759	Up
93145	OLFM2	olfactomedin 2	3.192	11.289	Up
53637	S1PR5	sphingosine-1-phosphate receptor 5	3.362	4.779	Up
1032	CDKN2D	cyclin dependent kinase inhibitor 2D	1.491	8.735	Up
57153	SLC44A2	solute carrier family 44 member 2	0.733	2.245	Up
147727	ILF3-DT	ILF3 divergent transcript	0.804	3.475	Up
90580	TIMM29	translocase of inner mitochondrial membrane 29	0.55	3.167	Up
115948	ODAD3	outer dynein arm docking complex subunit 3	0.735	4.224	Up
5589	PRKCSH	protein kinase C substrate 80K-H	0.68	4.523	Up
54	ACP5	acid phosphatase 5, tartrate resistant	1.415	3.549	Up
199692	ZNF627	zinc finger protein 627	0.71	2.694	Up
55552	ZNF823	zinc finger protein 823	0.96	2.371	Up
126068	ZNF441	zinc finger protein 441	1.145	3.286	Up
126069	ZNF491	zinc finger protein 491	1.996	5.451	Up
126070	ZNF440	zinc finger protein 440	0.81	3.6	Up
90594	ZNF439	zinc finger protein 439	1.457	7.509	Up
7620	ZNF69	zinc finger protein 69	1.752	5.414	Up
90592	ZNF700	zinc finger protein 700	0.998	5.014	Up
284390	ZNF763	zinc finger protein 763	2.429	10.337	Up
1.02E+08	ZNF433-AS1	ZNF433 and ZNF878 antisense RNA 1	1.172	2.987	Up

1.01E+08	ZNF625-ZNF20	ZNF625-ZNF20 readthrough (NMD candidate)	1.038	3.094	Up
7568	ZNF20	zinc finger protein 20	1.029	3.082	Up
51710	ZNF44	zinc finger protein 44	1.797	13.117	Up
147837	ZNF563	zinc finger protein 563	1.524	7.567	Up
90576	ZNF799	zinc finger protein 799	0.872	2.815	Up
10224	ZNF443	zinc finger protein 443	0.936	2.786	Up
163051	ZNF709	zinc finger protein 709	1.017	6.562	Up
163050	ZNF564	zinc finger protein 564	0.979	5.587	Up
57474	ZNF490	zinc finger protein 490	0.677	1.363	Up
163049	ZNF791	zinc finger protein 791	0.438	1.784	Up
1777	DNASE2	deoxyribonuclease 2, lysosomal	0.35	1.401	Up
4066	LYL1	LYL1 basic helix-loop-helix family member	1.103	5.487	Up
81576	YJU2B	YJU2 splicing factor homolog B	0.715	2.079	Up
5989	RFX1	regulatory factor X1	0.8	4.358	Up
1.01E+08	ADGRL1-AS1	ADGRL1 antisense RNA 1	0.786	2.252	Up
3337	DNAJB1	DnaJ heat shock protein family (Hsp40) member B1	0.492	1.733	Up
9524	TECR	trans-2,3-enoyl-CoA reductase	0.816	4.672	Up
84449	ZNF333	zinc finger protein 333	1.196	5.147	Up
26993	AKAP8L	A-kinase anchoring protein 8 like	1.056	7.609	Up
10365	KLF2	KLF transcription factor 2	4.084	80.675	Up
27151	CPAMD8	C3 and PZP like alpha-2-macroglobulin domain containing 8	2.282	1.87	Up
57719	ANO8	anoctamin 8	1.14	2.989	Up
376497	SLC27A1	solute carrier family 27 member 1	1.194	5.701	Up
27106	ARRDC2	arrestin domain containing 2	2.993	33.66	Up
10437	IFI30	IFI30 lysosomal thiol reductase	1.297	1.792	Up
5864	RAB3A	RAB3A, member RAS oncogene family	1.412	5.582	Up
80726	IQCN	IQ motif containing N	2.126	2.827	Up
1.05E+08	LOC105372300	uncharacterized LOC105372300	2.034	5.355	Up
54858	PGPEP1	pyroglutamyl-peptidase I	0.977	2.259	Up
9518	GDF15	growth differentiation factor 15	7.41	4.882	Up
126364	LRRC25	leucine rich repeat containing 25	8.606	10.199	Up
55295	KLHL26	kelch like family member 26	0.455	1.706	Up
23373	CRTC1	CREB regulated transcription coactivator 1	1.419	5.604	Up
284439	SLC25A42	solute carrier family 25 member 42	1.146	10.088	Up
1E+08	MEF2B	myocyte enhancer factor 2B	0.853	1.499	Up
23383	MAU2	MAU2 sister chromatid cohesion factor	0.698	3.738	Up
83983	TSSK6	testis specific serine kinase 6	1.987	2.614	Up
80714	PBX4	PBX homeobox 4	1.214	1.918	Up
9170	LPAR2	lysophosphatidic acid receptor 2	1.075	13.53	Up
51291	GMIP	GEM interacting protein	0.376	1.372	Up
94039	ZNF101	zinc finger protein 101	1.362	2.361	Up
7561	ZNF14	zinc finger protein 14	1.325	7.172	Up
284440	LINC00663	long intergenic non-protein coding RNA 663	2.791	5.606	Up
1.12E+08	LOC112267872		1.172	3.811	Up
7608	ZNF56P	zinc finger protein 56, pseudogene	1.429	2.212	Up
56242	ZNF253	zinc finger protein 253	0.704	2.779	Up
81931	ZNF93	zinc finger protein 93	0.881	2.08	Up

1E+08	ZNF737	zinc finger protein 737	0.796	3.708	Up
80264	ZNF430	zinc finger protein 430	0.588	3.647	Up
170959	ZNF431	zinc finger protein 431	0.862	3.124	Up
284443	ZNF493	zinc finger protein 493	0.689	3.654	Up
353088	ZNF429	zinc finger protein 429	1.5	6.871	Up
7594	ZNF43	zinc finger protein 43	0.475	1.494	Up
7644	ZNF91	zinc finger protein 91	0.588	2.125	Up
171392	ZNF675	zinc finger protein 675	0.631	2.419	Up
148213	ZNF681	zinc finger protein 681	1.108	3.432	Up
9534	ZNF254	zinc finger protein 254	0.532	1.847	Up
148189	LINC00662	long intergenic non-protein coding RNA 662	0.718	1.855	Up
1.02E+08	LINC02987	long intergenic non-protein coding RNA 2987	0.513	1.662	Up
79156	PLEKHF1	pleckstrin homology and FYVE domain containing 1	1.184	6.551	Up
388531	RGS9BP	regulator of G protein signaling 9 binding protein	2.182	1.437	Up
126248	WDR88	WD repeat domain 88	1.657	1.824	Up
1050	CEBPA	CCAAT enhancer binding protein alpha	1.205	2.041	Up
26065	LSM14A	LSM14A mRNA processing body assembly factor	0.389	2.224	Up
9710	GARRE1	granule associated Rac and RHOG effector 1	1.389	16.134	Up
55900	ZNF302	zinc finger protein 302	0.687	2.463	Up
339318	ZNF181	zinc finger protein 181	0.786	4.706	Up
148103	ZNF599	zinc finger protein 599	1.346	3.645	Up
400685	LINC01801	long intergenic non-protein coding RNA 1801	3.26	17.097	Up
90075	ZNF30	zinc finger protein 30	1.016	3.673	Up
126375	ZNF792	zinc finger protein 792	2.26	17.902	Up
57655	GRAMD1A	GRAM domain containing 1A	0.928	6.557	Up
6324	SCN1B	sodium voltage-gated channel beta subunit 1	1.295	1.49	Up
5348	FXYD1	FXYD domain containing ion transport regulator 1	2.079	9.752	Up
53822	FXYD7	FXYD domain containing ion transport regulator 7	3.102	30.733	Up
53827	FXYD5	FXYD domain containing ion transport regulator 5	1.483	9.344	Up
51599	LSR	lipolysis stimulated lipoprotein receptor	0.639	3.684	Up
7392	USF2	upstream transcription factor 2, c-fos interacting	0.891	7.794	Up
199746	U2AF1L4	U2 small nuclear RNA auxiliary factor 1 like 4	0.61	3.621	Up
7305	TYROBP	transmembrane immune signaling adaptor TYROBP	2.562	7.028	Up
199745	THAP8	THAP domain containing 8	1.302	4.748	Up
147929	ZNF565	zinc finger protein 565	1.173	5.386	Up
57677	ZFP14	ZFP14 zinc finger protein	1.588	28.703	Up
284406	ZFP82	ZFP82 zinc finger protein	0.456	2.833	Up
84924	ZNF566	zinc finger protein 566	0.985	11.677	Up
339324	ZNF260	zinc finger protein 260	0.622	4.348	Up
57711	ZNF529	zinc finger protein 529	1.043	16.882	Up
1.02E+08	ZNF529-AS1	ZNF529 antisense RNA 1	0.961	1.951	Up
92283	ZNF461	zinc finger protein 461	0.853	4.06	Up
1.02E+08	ZNF567-DT	ZNF567 divergent transcript	1.78	4.192	Up
342892	ZNF850	zinc finger protein 850	1.08	1.932	Up
284408	ZNF790-AS1	ZNF790 antisense RNA 1	0.898	1.372	Up
388536	ZNF790	zinc finger protein 790	0.71	1.744	Up
25850	ZNF345	zinc finger protein 345	1.31	11.629	Up
374900	ZNF568	zinc finger protein 568	0.785	5.341	Up
147923	ZNF420	zinc finger protein 420	0.855	1.855	Up

199704	ZNF585A	zinc finger protein 585A	0.931	3.199	Up
92285	ZNF585B	zinc finger protein 585B	1.133	5.156	Up
163087	ZNF383	zinc finger protein 383	1.35	15.864	Up
284459	ZNF875	zinc finger protein 875	1.181	11.714	Up
84503	ZNF527	zinc finger protein 527	0.759	3.314	Up
148266	ZNF569	zinc finger protein 569	0.509	1.723	Up
148268	ZNF570	zinc finger protein 570	0.771	1.651	Up
163255	ZNF540	zinc finger protein 540	1.724	8.325	Up
51276	ZNF571	zinc finger protein 571	1.173	6.313	Up
22835	ZFP30	ZFP30 zinc finger protein	1.252	3.045	Up
163115	ZNF781	zinc finger protein 781	0.974	1.778	Up
84775	ZNF607	zinc finger protein 607	0.724	1.68	Up
147965	FAM98C	family with sequence similarity 98 member C	0.898	2.936	Up
3960	LGALS4	galectin 4	3.161	1.882	Up
342897	NCCRP1	NCCRP1, F-box associated domain containing	3.097	6.603	Up
57622	LRFN1	leucine rich repeat and fibronectin type III domain containing 1	1.428	13.281	Up
7538	ZFP36	ZFP36 ring finger protein	0.736	3.494	Up
126272	EID2B	EP300 interacting inhibitor of differentiation 2B	0.938	2.809	Up
9149	DYRK1B	dual specificity tyrosine phosphorylation regulated kinase 1B	1.394	8.798	Up
339327	ZNF546	zinc finger protein 546	0.571	1.676	Up
284323	ZNF780A	zinc finger protein 780A	0.707	2.27	Up
23646	PLD3	phospholipase D family member 3	1.054	14.687	Up
57716	PRX	periaxin	1.869	5.134	Up
1556	CYP2B7P	cytochrome P450 family 2 subfamily B member 7, pseudogene	2.563	3.89	Up
29785	CYP2S1	cytochrome P450 family 2 subfamily S member 1	2.357	2.471	Up
558	AXL	AXL receptor tyrosine kinase	4.066	4.974	Up
1.05E+08	LOC105372401	uncharacterized LOC105372401	0.374	1.597	Up
90273	CEACAM21	CEA cell adhesion molecule 21	1.063	2.779	Up
1089	CEACAM4	CEA cell adhesion molecule 4	4.262	2.3	Up
9138	ARHGEF1	Rho guanine nucleotide exchange factor 1	0.738	3.413	Up
390937	ERFL	ETS repressor factor like	2.318	8.403	Up
1.01E+08	LOC100505585	replaced by ID 9138	2.865	10.492	Up
478	ATP1A3	ATPase Na+/K+ transporting subunit alpha 3	0.672	1.472	Up
162989	DEDD2	death effector domain containing 2	0.675	3.835	Up
27076	LYPD3	LY6/PLAUR domain containing 3	1.887	9.67	Up
284346	ZNF575	zinc finger protein 575	1.997	5.669	Up
7515	XRCC1	X-ray repair cross complementing 1	0.748	5.086	Up
284349	ZNF283	zinc finger protein 283	0.829	3.964	Up
7596	ZNF45	zinc finger protein 45	0.431	1.742	Up
7711	ZNF155	zinc finger protein 155	0.563	2.287	Up
1.02E+08	ZNF230-DT	ZNF230 divergent transcript	0.9	3.053	Up
7773	ZNF230	zinc finger protein 230	1.231	9.345	Up
7673	ZNF222	zinc finger protein 222	0.6	1.686	Up
7766	ZNF223	zinc finger protein 223	1.197	5.692	Up
342909	ZNF284	zinc finger protein 284	1.399	11.319	Up
7767	ZNF224	zinc finger protein 224	1.398	11.887	Up

1E+08	ZNF225-AS1	ZNF225 and ZNF224 antisense RNA 1	1.284	9.178	Up
7768	ZNF225	zinc finger protein 225	1.073	6.397	Up
10780	ZNF234	zinc finger protein 234	0.617	3.304	Up
7769	ZNF226	zinc finger protein 226	1.236	13.852	Up
7770	ZNF227	zinc finger protein 227	0.994	12.096	Up
9310	ZNF235	zinc finger protein 235	0.564	2.192	Up
7733	ZNF180	zinc finger protein 180	0.989	10.222	Up
284353	NKPD1	NTPase KAP family P-loop domain containing 1	1.722	2.395	Up
79090	TRAPPC6A	trafficking protein particle complex subunit 6A	0.805	2.563	Up
388552	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3	0.818	6.891	Up
54814	QPCTL	glutaminyl-peptide cyclotransferase like	1.414	2.47	Up
26145	IRF2BP1	interferon regulatory factor 2 binding protein 1	0.636	1.353	Up
339344	MYPOP	Myb related transcription factor, partner of profilin	0.546	1.523	Up
27113	BBC3	BCL2 binding component 3	0.884	2.413	Up
728	C5AR1	complement C5a receptor 1	5.928	19.25	Up
27202	C5AR2	complement C5a receptor 2	2.604	2.064	Up
29997	NOP53	NOP53 ribosome biogenesis factor	0.955	4.114	Up
1.06E+08	NOP53-AS1	NOP53 antisense RNA 1	1.138	5.124	Up
6415	SELENOW	selenoprotein W	0.862	2.009	Up
374920	ZSWIM9	zinc finger SWIM-type containing 9	1.113	2.398	Up
22900	CARD8	caspase recruitment domain family member 8	0.848	11.33	Up
93233	ODAD1	outer dynein arm docking complex subunit 1	2.233	2.879	Up
55260	TMEM143	transmembrane protein 143	1.348	5.422	Up
10945	KDELR1	KDEL endoplasmic reticulum protein retention receptor 1	0.405	3.357	Up
3770	KCNJ14	potassium inwardly rectifying channel subfamily J member 14	1.163	2.444	Up
114783	LMTK3	lemur tyrosine kinase 3	1.915	8.355	Up
6141	RPL18	ribosomal protein L18	0.764	1.313	Up
1628	DBP	D-box binding PAR bZIP transcription factor	2.882	40.187	Up
770	CA11	carbonic anhydrase 11	0.742	3.217	Up
653677	SEC1P	secretory blood group 1, pseudogene	1.756	3.858	Up
126147	NTN5	netrin 5	3.923	5.714	Up
1.05E+08	LOC105372431	uncharacterized LOC105372431	2.219	2.167	Up
2524	FUT2	fucosyltransferase 2	1.93	1.597	Up
1.05E+08	LOC105447645	uncharacterized LOC105447645	2.24	1.445	Up
64130	LIN7B	lin-7 homolog B, crumbs cell polarity complex component	0.919	1.394	Up
28968	SLC6A16	solute carrier family 6 member 16	1.076	2.978	Up
951	CD37	CD37 molecule	1.174	11.732	Up
8463	TEAD2	TEA domain transcription factor 2	1.295	1.375	Up
23521	RPL13A	ribosomal protein L13a	0.857	1.692	Up
2217	FCGRT	Fc gamma receptor and transporter	1.278	5.8	Up
57479	PRR12	proline rich 12	1.206	4.387	Up
80199	FUZ	fuzzy planar cell polarity protein	0.442	1.999	Up
1.05E+08	LOC105372435	uncharacterized LOC105372435	0.9	1.454	Up
27180	SIGLEC9	sialic acid binding Ig like lectin 9	2.053	3.811	Up
27036	SIGLEC7	sialic acid binding Ig like lectin 7	2.361	1.398	Up
729975	LINC01530	long intergenic non-protein coding RNA 1530	2.127	2.313	Up
8778	SIGLEC5	sialic acid binding Ig like lectin 5	2.196	1.399	Up

1E+08	SIGLEC14	sialic acid binding Ig like lectin 14	3.17	4.04	Up
2359	FPR3	formyl peptide receptor 3	3.706	6.76	Up
84765	ZNF577	zinc finger protein 577	1.331	5.031	Up
59348	ZNF350	zinc finger protein 350	1.435	12.23	Up
284370	ZNF615	zinc finger protein 615	1.04	8.131	Up
284371	ZNF841	zinc finger protein 841	0.68	1.99	Up
90317	ZNF616	zinc finger protein 616	1.442	13.93	Up
162962	ZNF836	zinc finger protein 836	1.396	9.111	Up
90321	ZNF766	zinc finger protein 766	0.952	12.062	Up
162963	ZNF610	zinc finger protein 610	1.691	5.344	Up
1.03E+08	ZNF528-AS1	ZNF528 antisense RNA 1	1.902	2.795	Up
84436	ZNF528	zinc finger protein 528	1.453	8.869	Up
147660	ZNF578	zinc finger protein 578	1.185	1.909	Up
388558	ZNF808	zinc finger protein 808	0.685	1.636	Up
55762	ZNF701	zinc finger protein 701	0.905	6.399	Up
7696	ZNF137P	zinc finger protein 137, pseudogene	1.628	3.297	Up
55769	ZNF83	zinc finger protein 83	1.33	14.825	Up
162966	ZNF600	zinc finger protein 600	0.615	1.47	Up
162967	ZNF320	zinc finger protein 320	0.834	7.965	Up
1.01E+08	ZNF816-ZNF321P	ZNF816-ZNF321P readthrough	1.118	2.75	Up
125893	ZNF816	zinc finger protein 816	1.384	10.714	Up
79986	ZNF702P	zinc finger protein 702, pseudogene	0.876	2.606	Up
90338	ZNF160	zinc finger protein 160	1.509	4.562	Up
84671	ZNF347	zinc finger protein 347	0.784	3.409	Up
390963	ZNF818P	zinc finger protein 818, pseudogene	1.4	1.573	Up
91664	ZNF845	zinc finger protein 845	0.879	9.846	Up
1.08E+08	LOC107987264	putative zinc finger protein 137	1.037	4.679	Up
170958	ZNF525	zinc finger protein 525	1.081	7.052	Up
91661	ZNF765	zinc finger protein 765	0.526	2.484	Up
1.1E+08	ZNF765-ZNF761	ZNF765-ZNF761 readthrough	1.018	7.089	Up
388561	ZNF761	zinc finger protein 761	0.989	7.017	Up
55422	ZNF331	zinc finger protein 331	0.462	4.4	Up
126014	OSCAR	osteoclast associated Ig-like receptor	2.787	4.415	Up
79042	TSEN34	tRNA splicing endonuclease subunit 34	0.511	2.365	Up
10288	LILRB2	leukocyte immunoglobulin like receptor B2	2.025	1.342	Up
3903	LAIR1	leukocyte associated immunoglobulin like receptor 1	2.135	6.823	Up
1.04E+08	LENG8-AS1	LENG8 antisense RNA 1	1.953	2.871	Up
114823	LENG8	leukocyte receptor cluster member 8	0.99	1.356	Up
11027	LILRA2	leukocyte immunoglobulin like receptor A2	3.652	4.15	Up
10859	LILRB1	leukocyte immunoglobulin like receptor B1	2.332	1.564	Up
11006	LILRB4	leukocyte immunoglobulin like receptor B4	2.656	3.237	Up
3805	KIR2DL4	killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4	2.648	1.363	Up
255043	TMEM86B	transmembrane protein 86B	1.477	4.925	Up
84787	KMT5C	lysine methyltransferase 5C	1.876	6.396	Up
388564	TMEM238	transmembrane protein 238	0.88	2.573	Up
163033	ZNF579	zinc finger protein 579	0.69	2.027	Up

147807	ZNF524	zinc finger protein 524	1.463	10.265	Up
1.01E+08	ZNF865	zinc finger protein 865	1.192	6.206	Up
51545	ZNF581	zinc finger protein 581	1.053	6.281	Up
147948	ZNF582	zinc finger protein 582	0.477	1.627	Up
386758	ZNF582-DT	ZNF582 divergent transcript	1.606	6.509	Up
140612	ZFP28	ZFP28 zinc finger protein	0.91	1.702	Up
90485	ZNF835	zinc finger protein 835	1.375	1.366	Up
9422	ZNF264	zinc finger protein 264	0.668	3.08	Up
390980	ZNF805	zinc finger protein 805	0.697	3.23	Up
1.05E+08	ZNF460-AS1	ZNF460 antisense RNA 1	2.346	3.076	Up
57343	ZNF304	zinc finger protein 304	0.82	7.124	Up
147694	ZNF548	zinc finger protein 548	0.848	4.144	Up
7565	ZNF17	zinc finger protein 17	0.598	2.79	Up
79744	ZNF419	zinc finger protein 419	1.067	9.431	Up
374928	ZNF773	zinc finger protein 773	1.098	7.316	Up
256051	ZNF549	zinc finger protein 549	0.907	10.64	Up
162972	ZNF550	zinc finger protein 550	1.858	8.914	Up
55659	ZNF416	zinc finger protein 416	0.411	1.432	Up
284307	ZIK1	zinc finger protein interacting with K protein 1	0.803	3.712	Up
348327	ZNF530	zinc finger protein 530	1.108	6.995	Up
7693	ZNF134	zinc finger protein 134	0.649	4.457	Up
10520	ZNF211	zinc finger protein 211	1.322	12.734	Up
79891	ZNF671	zinc finger protein 671	1.38	15.031	Up
284309	ZNF776	zinc finger protein 776	0.72	4.323	Up
54807	ZNF586	zinc finger protein 586	0.681	2.453	Up
79818	ZNF552	zinc finger protein 552	0.45	1.695	Up
147687	ZNF417	zinc finger protein 417	0.922	2.397	Up
147686	ZNF418	zinc finger protein 418	1.597	2.126	Up
10172	ZNF256	zinc finger protein 256	0.603	1.907	Up
80095	ZNF606	zinc finger protein 606	1.46	9.402	Up
7694	ZNF135	zinc finger protein 135	1.064	1.391	Up
65982	ZSCAN18	zinc finger and SCAN domain containing 18	1.298	8.227	Up
79673	ZNF329	zinc finger protein 329	0.762	1.979	Up
10782	ZNF274	zinc finger protein 274	0.435	1.806	Up
7554	ZNF8	zinc finger protein 8	1.029	1.914	Up
1	A1BG	alpha-1-B glycoprotein	0.807	1.4	Up
116412	ZNF837	zinc finger protein 837	1.127	2.382	Up
55663	ZNF446	zinc finger protein 446	1.022	4.692	Up
7593	MZF1	myeloid zinc finger 1	1.135	4.678	Up
6666	SOX12	SRY-box transcription factor 12	1.101	3.34	Up
9751	SNPH	syntaphilin	1.483	7.622	Up
140885	SIRPA	signal regulatory protein alpha	2.19	2.869	Up
79175	ZNF343	zinc finger protein 343	0.489	2.966	Up
64773	PCED1A	PC-esterase domain containing 1A	1.511	9.373	Up
5786	PTPRA	protein tyrosine phosphatase receptor type A	0.633	4.499	Up
1.02E+08	LOC101929098	uncharacterized LOC101929098	2.258	1.578	Up
551	AVP	arginine vasopressin	4.286	3.897	Up
1E+08	UBOX5-AS1	UBOX5 antisense RNA 1	0.886	1.642	Up
22888	UBOX5	U-box domain containing 5	0.587	5.694	Up

9762	LZTS3	leucine zipper tumor suppressor family member 3	1.725	9.217	Up
994	CDC25B	cell division cycle 25B	1.884	12.282	Up
1.02E+08	LINC01730	long intergenic non-protein coding RNA 1730	4.801	2.739	Up
54498	SMOX	spermine oxidase	2.085	6.793	Up
8760	CDS2	CDP-diacylglycerol synthase 2	0.5	2.989	Up
149837	LINC00654	long intergenic non-protein coding RNA 654	1.072	2.224	Up
56261	GPCPD1	glycerophosphocholine phosphodiesterase 1	0.836	3.775	Up
56255	TMX4	thioredoxin related transmembrane protein 4	1.302	9.551	Up
140862	ISM1	isthmin 1	2.404	6.933	Up
57325	KAT14	lysine acetyltransferase 14	0.522	3.667	Up
7692	ZNF133	zinc finger protein 133	1.48	10.751	Up
55184	DZANK1	double zinc ribbon and ankyrin repeat domains 1	1.511	4.422	Up
1E+08	LCDR	lysosome cell death regulator	1.683	1.867	Up
57419	SLC24A3	solute carrier family 24 member 3	1.623	1.485	Up
54453	RIN2	Ras and Rab interactor 2	3.441	3.491	Up
57186	RALGAPA2	Ral GTPase activating protein catalytic subunit alpha 2	0.683	1.719	Up
55857	KIZ	kizuna centrosomal protein	1.45	13.305	Up
7056	THBD	thrombomodulin	4.362	13.998	Up
22918	CD93	CD93 molecule	0.977	1.643	Up
63908	NAPB	NSF attachment protein beta	0.627	1.87	Up
84532	ACSS1	acyl-CoA synthetase short chain family member 1	0.498	2.33	Up
284798	LOC284798	uncharacterized LOC284798	2.28	1.452	Up
26090	ABHD12	abhydrolase domain containing 12, lysophospholipase	0.612	2.009	Up
26152	ZNF337	zinc finger protein 337	0.842	2.212	Up
1E+08	FRG1CP	FSHD region gene 1 family member C, pseudogene	1.183	10.692	Up
1.03E+08	FRG1DP	FSHD region gene 1 family member D, pseudogene	1.87	2.318	Up
284802	FRG1BP	FSHD region gene 1 family member B, pseudogene	0.663	2.238	Up
140688	NOL4L	nucleolar protein 4 like	2.018	9.142	Up
1.02E+08	LOC101929698	uncharacterized LOC101929698	3.455	12.044	Up
388795	EFCAB8	EF-hand calcium binding domain 8	1.104	1.526	Up
6640	SNTA1	syntrophin alpha 1	0.786	3.07	Up
9139	CBFA2T2	CBFA2/RUNX1 partner transcriptional co-repressor 2	1.403	4.923	Up
11264	PXMP4	peroxisomal membrane protein 4	1.099	6.926	Up
1.11E+08	MMP24-AS1-EDEM2	MMP24-AS1-EDEM2 readthrough	0.517	2.356	Up
51230	PHF20	PHD finger protein 20	0.445	2.778	Up
57446	NDRG3	NDRG family member 3	1.048	11.288	Up
140710	SOGA1	suppressor of glucose, autophagy associated 1	1.032	1.935	Up
10904	BLCAP	BLCAP apoptosis inducing factor	0.906	3.251	Up
128439	SNHG11	small nucleolar RNA host gene 11	1.213	2.325	Up
9935	MAFB	MAF bZIP transcription factor B	6.843	25.618	Up
5335	PLCG1	phospholipase C gamma 1	0.871	2.134	Up
23051	ZHX3	zinc fingers and homeoboxes 3	0.621	2.268	Up
84181	CHD6	chromodomain helicase DNA binding protein 6	1.167	3.824	Up
51526	OSER1	oxidative stress responsive serine rich 1	0.913	4.178	Up
1.01E+08	OSER1-DT	OSER1 divergent transcript	2.84	9.78	Up
128486	FITM2	fat storage inducing transmembrane protein 2	0.93	2.177	Up
10955	SERINC3	serine incorporator 3	0.63	2.803	Up

6789	STK4	serine/threonine kinase 4	0.73	5.675	Up
128497	SPATA25	spermatogenesis associated 25	1.738	2.611	Up
140825	NEURL2	neuralized E3 ubiquitin protein ligase 2	1.566	2.411	Up
1.08E+08	LOC107985388	pre-mRNA-splicing factor cwc22-like	0.769	1.637	Up
63935	PCIF1	phosphorylated CTD interacting factor 1	0.599	5.008	Up
4318	MMP9	matrix metallopeptidase 9	4.147	4.927	Up
1.1E+08	SLC12A5-AS1	SLC12A5 and MMP9 antisense RNA 1	4.387	7.215	Up
63916	ELMO2	engulfment and cell motility 2	0.319	1.553	Up
23613	ZMYND8	zinc finger MYND-type containing 8	0.695	1.341	Up
57580	PREX1	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1	0.893	3.838	Up
441951	ZFAS1	ZNFX1 antisense RNA 1	1.742	9.077	Up
1.01E+08	PELATON	plaque enriched lncRNA in atherosclerotic and inflammatory bowel macrophage regulation	5.006	11.574	Up
84612	PARD6B	par-6 family cell polarity regulator beta	0.882	2.468	Up
1591	CYP24A1	cytochrome P450 family 24 subfamily A member 1	4.21	3.235	Up
116151	FAM210B	family with sequence similarity 210 member B	1.714	11.068	Up
200232	FAM209A	family with sequence similarity 209 member A	2.513	1.517	Up
81030	ZBP1	Z-DNA binding protein 1	3.171	13.842	Up
56937	PMEPA1	prostate transmembrane protein, androgen induced 1	3.323	7.045	Up
1.05E+08	NKILA	NF-kappaB interacting lncRNA	2.423	7.417	Up
9217	VAPB	VAMP associated protein B and C	0.271	2.072	Up
128611	ZNF831	zinc finger protein 831	2.382	10.508	Up
1908	EDN3	endothelin 3	4.612	2.157	Up
63939	FAM217B	family with sequence similarity 217 member B	0.932	8.017	Up
5509	PPP1R3D	protein phosphatase 1 regulatory subunit 3D	1.071	6.139	Up
1E+08	LOC100128310	uncharacterized LOC100128310	1.714	1.301	Up
149986	LSM14B	LSM family member 14B	0.489	3.302	Up
26039	SS18L1	SS18L1 subunit of BAF chromatin remodeling complex	0.541	1.899	Up
9885	OSBPL2	oxysterol binding protein like 2	0.572	3.939	Up
6227	RPS21	ribosomal protein S21	0.9	1.517	Up
1.02E+08	SLCO4A1-AS2	SLCO4A1 antisense RNA 2	1.471	6.475	Up
10732	TCFL5	transcription factor like 5	0.721	3.935	Up
768096	HAR1A	highly accelerated region 1A	0.986	1.703	Up
26205	GMEB2	glucocorticoid modulatory element binding protein 2	0.477	1.438	Up
1.01E+08	MHENCR	melanoma highly expressed competing endogenous lncRNA for miR-425 and miR-489	3.501	52.884	Up
50861	STMN3	stathmin 3	1.35	6.997	Up
54923	LIME1	Lck interacting transmembrane adaptor 1	2.553	17.653	Up
56731	SLC2A4RG	SLC2A4 regulator	0.895	3.442	Up
6919	TCEA2	transcription elongation factor A2	0.333	1.936	Up
4987	OPRL1	opioid related nociceptin receptor 1	3.497	9.705	Up
55251	PCMTD2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	1.888	27.56	Up
1.02E+08	LOC101928576	uncharacterized LOC101928576	1.822	1.723	Up
1.03E+08	LOC102724023	glutamine amidotransferase class 1 domain containing 3B	0.611	1.482	Up

1.03E+08	LOC102724200	trafficking protein particle complex subunit 10-like	0.64	2.265	Up
8204	NRIP1	nuclear receptor interacting protein 1	0.914	1.695	Up
29761	USP25	ubiquitin specific peptidase 25	0.77	8.501	Up
351	APP	amyloid beta precursor protein	0.652	3.919	Up
56911	MAP3K7CL	MAP3K7 C-terminal like	1.973	4.709	Up
571	BACH1	BTB domain and CNC homolog 1	0.858	2.925	Up
1E+08	GRIK1-AS2	GRIK1 antisense RNA 2	1.307	1.45	Up
59271	EVA1C	eva-1 homolog C	0.813	3.334	Up
8867	SYNJ1	synaptojanin 1	0.662	1.821	Up
54067	C21orf62-AS1	C21orf62 antisense RNA 1	2.673	8.608	Up
3455	IFNAR2	interferon alpha and beta receptor subunit 2	1.147	16.285	Up
1E+08	IL10RB-DT	IL10RB divergent transcript	1.535	2.048	Up
3454	IFNAR1	interferon alpha and beta receptor subunit 1	0.339	1.654	Up
54943	DNAJC28	DnaJ heat shock protein family (Hsp40) member C28	1.851	1.814	Up
1.01E+08	LINC00649	long intergenic non-protein coding RNA 649	1.455	3.157	Up
1.02E+08	LOC101928126	uncharacterized LOC101928126	1.864	3.696	Up
3753	KCNE1	potassium voltage-gated channel subfamily E regulatory subunit 1	4.925	2.787	Up
54093	SETD4	SET domain containing 4	0.675	3.156	Up
23515	MORC3	MORC family CW-type zinc finger 3	0.37	1.646	Up
51227	PIGP	phosphatidylinositol glycan anchor biosynthesis class P	0.455	1.613	Up
7267	TTC3	tetratricopeptide repeat domain 3	1.478	13.02	Up
1.01E+08	TTC3-AS1	TTC3 antisense RNA 1	1.707	10.976	Up
1859	DYRK1A	dual specificity tyrosine phosphorylation regulated kinase 1A	0.679	4.521	Up
54014	BRWD1	bromodomain and WD repeat domain containing 1	1.203	7.209	Up
89766	UMODL1	uromodulin like 1	2.727	1.368	Up
9619	ABCG1	ATP binding cassette subfamily G member 1	1.243	2.095	Up
1.05E+08	LOC105372817	uncharacterized LOC105372817	1.788	1.484	Up
90625	ERVH48-1	endogenous retrovirus group 48 member 1, envelope	4.053	4.03	Up
1476	CSTB	cystatin B	0.686	1.368	Up
8209	GATD3	glutamine amidotransferase class 1 domain containing 3	0.587	1.411	Up
23308	ICOSLG	inducible T cell costimulator ligand	1.148	2.058	Up
3689	ITGB2	integrin subunit beta 2	0.507	2.355	Up
1.01E+08	ITGB2-AS1	ITGB2 antisense RNA 1	1.061	2.373	Up
23275	POFUT2	protein O-fucosyltransferase 2	0.998	2.729	Up
642852	LINC00205	long intergenic non-protein coding RNA 205	1.768	6.915	Up
80781	COL18A1	collagen type XVIII alpha 1 chain	1.122	2.333	Up
54058	C21orf58	chromosome 21 open reading frame 58	1.062	1.759	Up
23181	DIP2A	disco interacting protein 2 homolog A	1.053	2.799	Up
6285	S100B	S100 calcium binding protein B	3.353	3.974	Up
3275	PRMT2	protein arginine methyltransferase 2	1.263	16.717	Up
1.03E+08	FRG1FP	FSHD region gene 1 family member F, pseudogene	0.688	1.383	Up
23765	IL17RA	interleukin 17 receptor A	1.356	5.854	Up
27439	TMEM121B	transmembrane protein 121B	2.584	2.102	Up
51816	ADA2	adenosine deaminase 2	2.809	8.003	Up

200298	LINC00528	long intergenic non-protein coding RNA 528	1.656	7.109	Up
728229	TMEM191B	transmembrane protein 191B	2.47	5.453	Up
85376	RIMBP3	RIMS binding protein 3	3.386	26.985	Up
9993	DGCR2	DiGeorge syndrome critical region gene 2	0.77	9.108	Up
128977	C22orf39	chromosome 22 open reading frame 39	1.057	7.099	Up
1.05E+08	UFD1-AS1	UFD1 antisense RNA 1	0.937	1.762	Up
79680	RTL10	retrotransposon Gag like 10	1.106	5.106	Up
65078	RTN4R	reticulon 4 receptor	1.991	6.269	Up
7625	ZNF74	zinc finger protein 74	0.522	1.334	Up
91179	SCARF2	scavenger receptor class F member 2	1.828	3.029	Up
51586	MED15	mediator complex subunit 15	1.039	5.245	Up
84222	TMEM191A	transmembrane protein 191A (pseudogene)	2.216	10.451	Up
400892	BCRP2	BCR pseudogene 2	1.228	2.09	Up
440804	RIMBP3B	RIMS binding protein 3B	3.214	24.371	Up
645426	TMEM191C	transmembrane protein 191C	2.614	8.245	Up
375133	PI4KAP2	phosphatidylinositol 4-kinase alpha pseudogene 2	0.586	1.579	Up
150221	RIMBP3C	RIMS binding protein 3C	2.976	23.489	Up
29799	YPEL1	yippee like 1	1.381	6.26	Up
1.08E+08	LOC107985542		5.681	2.996	Up
51233	DRICH1	aspartate rich 1	5.333	1.834	Up
91316	GUSBP11	GUSB pseudogene 11	1.947	2.347	Up
4320	MMP11	matrix metallopeptidase 11	0.994	1.694	Up
66035	SLC2A11	solute carrier family 2 member 11	1.792	5.754	Up
23523	CABIN1	calcineurin binding protein 1	0.621	1.741	Up
135	ADORA2A	adenosine A2a receptor	0.5	1.577	Up
646023	ADORA2A-AS1	ADORA2A antisense RNA 1	0.73	1.57	Up
646074	POM121L10P	POM121 transmembrane nucleoporin like 10, pseudogene	0.802	1.663	Up
129049	SGSM1	small G protein signaling modulator 1	2.33	4.555	Up
91355	LRP5L	LDL receptor related protein 5 like (pseudogene)	1.958	2.582	Up
89781	HPS4	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2	0.52	2.996	Up
1.01E+08	TFIP11-DT	TFIP11 divergent transcript	1.879	4.917	Up
1.03E+08	MIATNB	MIAT neighbor	1.286	5.901	Up
1.05E+08	LOC105372976		2.83	2.08	Up
1.1E+08	LOC110091768	uncharacterized LOC110091768	2.564	2.41	Up
4330	MN1	MN1 proto-oncogene, transcriptional regulator	1.877	2.894	Up
284900	TTC28-AS1	TTC28 antisense RNA 1	1.515	9.998	Up
23331	TTC28	tetratricopeptide repeat domain 28	1.796	2.056	Up
1.08E+08	LOC107985549	uncharacterized LOC107985549	2.14	1.737	Up
10634	GAS2L1	growth arrest specific 2 like 1	1.456	3.617	Up
8897	MTMR3	myotubularin related protein 3	0.729	4.532	Up
1.02E+08	HORMAD2-AS1	HORMAD2 and MTMR3 antisense RNA 1	0.911	1.837	Up
652968	CASTOR1	cytosolic arginine sensor for mTORC1 subunit 1	1.068	3.472	Up

83874	TBC1D10A	TBC1 domain family member 10A	1.023	6.977	Up
23541	SEC14L2	SEC14 like lipid binding 2	0.643	2.218	Up
9514	GAL3ST1	galactose-3-O-sulfotransferase 1	3.928	5.86	Up
6948	TCN2	transcobalamin 2	1.907	1.698	Up
1.08E+08	LOC107985544	uncharacterized LOC107985544	1.8	7.298	Up
3985	LIMK2	LIM domain kinase 2	1.92	31.928	Up
113791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	3.92	79.999	Up
1.05E+08	LOC105372997	uncharacterized LOC105372997	1.892	2.941	Up
23598	PATZ1	POZ/BTB and AT hook containing zinc finger 1	0.952	16.322	Up
1.02E+08	PIK3IP1-DT	PIK3IP1 divergent transcript	2.684	2.483	Up
9814	SFI1	SFI1 centrin binding protein	1.089	2.547	Up
9681	DEPDC5	DEP domain containing 5, GATOR1 subcomplex subunit	0.502	1.587	Up
10043	TOM1	target of myb1 membrane trafficking protein	0.78	4.304	Up
1.03E+08	LOC102723507		2.049	2.92	Up
114904	C1QTNF6	C1q and TNF related 6	2.884	5.216	Up
27128	CYTH4	cytohesin 4	1.598	11.84	Up
1.05E+08	LOC105373024	uncharacterized LOC105373024	1.606	5.787	Up
114794	ELFN2	extracellular leucine rich repeat and fibronectin type III domain containing 2	3.773	11.765	Up
10521	DDX17	DEAD-box helicase 17	1.022	5.735	Up
25776	CBY1	chibby family member 1, beta catenin antagonist	1.069	5.234	Up
9567	GTPBP1	GTP binding protein 1	0.319	2.616	Up
25777	SUN2	Sad1 and UNC84 domain containing 2	1.853	27.393	Up
10126	DNAL4	dynein axonemal light chain 4	0.635	2.241	Up
23467	NPTXR	neuronal pentraxin receptor	0.954	2.587	Up
23492	CBX7	chromobox 7	1.305	18.086	Up
5155	PDGFB	platelet derived growth factor subunit B	3.283	8.557	Up
116936	SNORD139	small nucleolar RNA, C/D box 139	1.346	1.966	Up
10454	TAB1	TGF-beta activated kinase 1 (MAP3K7) binding protein 1	0.656	3.252	Up
1.01E+08	LOC100506472	uncharacterized LOC100506472	2.142	2.4	Up
8911	CACNA1I	calcium voltage-gated channel subunit alpha1 I	2.833	38.647	Up
23112	TNRC6B	trinucleotide repeat containing adaptor 6B	0.992	3.524	Up
57591	MRTFA	myocardin related transcription factor A	0.622	3.341	Up
7008	TEF	TEF transcription factor, PAR bZIP family member	0.78	5.73	Up
5372	PMM1	phosphomannomutase 1	0.507	1.708	Up
150365	MEI1	meiotic double-stranded break formation protein 1	0.932	4.459	Up
1.01E+08	MIR378I	microRNA 378i	2.336	4.98	Up
115650	TNFRSF13C	TNF receptor superfamily member 13C	2.371	5.508	Up
1E+08	NDUFA6-DT	NDUFA6 divergent transcript	0.98	4.217	Up
1.03E+08	LOC102723722	uncharacterized LOC102723722	1.459	3.982	Up
1.02E+08	LOC101927372	uncharacterized LOC101927372	2.066	1.949	Up
53947	A4GALT	alpha 1,4-galactosyltransferase (P blood group)	3.448	4.183	Up
11252	PACSIN2	protein kinase C and casein kinase substrate in neurons 2	0.421	2.544	Up

1.01E+08	TTLL1-AS1	TTLL1 antisense RNA 1	1.296	1.345	Up
25809	TTLL1	TTL family tubulin polyglutamylase complex subunit L1	1.294	8.598	Up
55007	FAM118A	family with sequence similarity 118 member A	0.676	2.618	Up
5465	PPARA	peroxisome proliferator activated receptor alpha	0.471	1.733	Up
64781	CERK	ceramide kinase	1.231	15.829	Up
1.05E+08	LOC105373077	uncharacterized LOC105373077	1.461	2.759	Up
1.08E+08	LOC107985566		3.97	2.927	Up
25771	TBC1D22A	TBC1 domain family member 22A	0.261	1.566	Up
23774	BRD1	bromodomain containing 1	0.673	1.924	Up
79087	ALG12	ALG12 alpha-1,6-mannosyltransferase	0.404	1.987	Up
23209	MLC1	modulator of VRAC current 1	1.44	3.115	Up
83933	HDAC10	histone deacetylase 10	0.616	1.388	Up
6305	SBF1	SET binding factor 1	0.532	1.412	Up
410	ARSA	arylsulfatase A	0.708	1.863	Up
284942	RPL23AP82	ribosomal protein L23a pseudogene 82	0.654	1.698	Up
1.08E+08	LOC107987388	replaced by ID 102724151	1.306	1.578	Up
283981	LINC00685	long intergenic non-protein coding RNA 685	1.586	2.731	Up
28227	PPP2R3B	protein phosphatase 2 regulatory subunit B''beta	0.683	1.531	Up
3563	IL3RA	interleukin 3 receptor subunit alpha	1.567	3.782	Up
1.02E+08	LOC101928032	uncharacterized LOC101928032	2.967	1.689	Up
1.02E+08	LOC101928055	replaced by ID 101928032	1.728	4.201	Up
286530	P2RY8	P2Y receptor family member 8	1.183	4.45	Up
1.05E+08	LINC02968	long intergenic non-protein coding RNA 2968	2.712	2.13	Up
1.05E+08	LOC105379413	uncharacterized LOC105379413	2.309	1.712	Up
1.02E+08	LOC101928092	uncharacterized LOC101928092	2.65	4.011	Up
401577	CD99P1	CD99 molecule pseudogene 1	1.198	2.775	Up
729162	FAM239B	zinc finger protein 839 pseudogene	0.605	1.768	Up
6907	TBL1X	transducin beta like 1 X-linked	1.347	7.773	Up
170082	TCEANC	transcription elongation factor A N-terminal and central domain containing	0.878	4.265	Up
1.08E+08	LOC107985656	uncharacterized LOC107985656	2.688	2.157	Up
6399	TRAPPC2	trafficking protein particle complex subunit 2	0.747	6.367	Up
57393	CLTRN	collectrin, amino acid transport regulator	1.428	1.708	Up
1.14E+08	CA5BP1-CA5B	CA5BP1-CA5B readthrough	1.142	4.744	Up
11238	CA5B	carbonic anhydrase 5B	1.391	7.092	Up
8551	INE2	inactivation escape 2	1.681	3.576	Up
56474	CTPS2	CTP synthase 2	0.444	1.485	Up
9185	REPS2	RALBP1 associated Eps domain containing 2	3.187	5.389	Up
6322	SCML1	Scm polycomb group protein like 1	2.312	9.94	Up
10742	RAI2	retinoic acid induced 2	1.711	1.744	Up
5256	PHKA2	phosphorylase kinase regulatory subunit alpha 2	0.482	1.632	Up
30011	SH3KBP1	SH3 domain containing kinase binding protein 1	0.437	1.867	Up

6197	RPS6KA3	ribosomal protein S6 kinase A3	0.883	2.521	Up
51360	MBTPS2	membrane bound transcription factor peptidase, site 2	0.469	2.115	Up
1536	CYBB	cytochrome b-245 beta chain	3.419	6.85	Up
7102	TSPAN7	tetraspanin 7	1.676	1.669	Up
1.05E+08	LOC105373177	uncharacterized LOC105373177	2.381	2.024	Up
80258	EFHC2	EF-hand domain containing 2	2.323	2.782	Up
55634	KRBOX4	KRAB box domain containing 4	1.212	8.427	Up
641339	ZNF674	zinc finger protein 674	0.97	3.763	Up
56548	CHST7	carbohydrate sulfotransferase 7	0.866	4.685	Up
7076	TIMP1	TIMP metallopeptidase inhibitor 1	0.601	2.438	Up
5199	CFP	complement factor properdin	1.277	6.078	Up
7569	ZNF182	zinc finger protein 182	0.84	5.835	Up
1.05E+08	LOC105373195	uncharacterized LOC105373195	2.012	2.14	Up
158572	USP27X-DT	USP27X divergent transcript	1.082	1.539	Up
389856	USP27X	ubiquitin specific peptidase 27 X-linked	0.748	1.935	Up
1.05E+08	LOC105373204	uncharacterized LOC105373204	3.157	4.577	Up
81557	MAGED4B	MAGE family member D4B	0.819	1.46	Up
728239	MAGED4	MAGE family member D4	0.882	1.638	Up
23096	IQSEC2	IQ motif and Sec7 domain ArfGEF 2	1.315	1.895	Up
158787	RIBC1	RIB43A domain with coiled-coils 1	1.395	1.368	Up
54954	FAM120C	family with sequence similarity 120C	1.457	6.324	Up
2245	FGD1	FYVE, RhoGEF and PH domain containing 1	1.004	6.639	Up
1E+08	MTRNR2L10	MT-RNR2 like 10 (pseudogene)	2.212	3.564	Up
158880	USP51	ubiquitin specific peptidase 51	0.899	3.002	Up
158584	FAAH2	fatty acid amide hydrolase 2	0.736	3.466	Up
158586	ZXDB	zinc finger X-linked duplicated B	0.697	3.144	Up
7789	ZXDA	zinc finger X-linked duplicated A	0.751	4.457	Up
139886	SPIN4	spindlin family member 4	0.978	3.427	Up
92249	LINC01278	long intergenic non-protein coding RNA 1278	0.86	7.402	Up
23229	ARHGEF9	Cdc42 guanine nucleotide exchange factor 9	1.217	17.237	Up
55906	ZC4H2	zinc finger C4H2-type containing	0.47	1.791	Up
340554	ZC3H12B	zinc finger CCCH-type containing 12B	1.33	6.066	Up
1.08E+08	LOC107985679		4.864	8.053	Up
3476	IGBP1	immunoglobulin binding protein 1	1.379	6.423	Up
4303	FOXO4	forkhead box O4	1.276	6.224	Up
54413	NLGN3	neuroligin 3	1.408	1.621	Up
9203	ZMYM3	zinc finger MYM-type containing 3	0.716	5.819	Up
1.05E+08	LOC105373247	uncharacterized LOC105373247	1.756	2.293	Up
6872	TAF1	TATA-box binding protein associated factor 1	0.477	1.635	Up
8473	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase	1.166	10.011	Up
93953	GCNA	germ cell nuclear acidic peptidase	1.846	3.681	Up
441501	LINC00891	long intergenic non-protein coding RNA 891	3.501	4.488	Up
1E+08	LOC100132741	uncharacterized LOC100132741	3.526	4.503	Up
340527	NHSL2	NHS like 2	3.649	20.876	Up
392490	FLJ44635	replaced by ID 340527	1.145	1.975	Up
653687	FAM226B	family with sequence similarity 226 member B	0.946	1.87	Up

203429	FAM226A	family with sequence similarity 226 member A	1.039	2.315	Up
340533	NEXMIF	neurite extension and migration factor	1.882	1.776	Up
22	ABCB7	ATP binding cassette subfamily B member 7	0.574	1.784	Up
286495	TTC3P1	tetratricopeptide repeat domain 3 pseudogene 1	0.949	2.847	Up
57692	MAGEE1	MAGE family member E1	1.012	3.332	Up
538	ATP7A	ATPase copper transporting alpha	0.719	4.997	Up
27334	P2RY10	P2Y receptor family member 10	1.411	5.565	Up
9452	ITM2A	integral membrane protein 2A	0.72	1.616	Up
1.05E+08	LOC105373283		2.087	2.635	Up
6451	SH3BGRL	SH3 domain binding glutamate rich protein like	1.129	5.86	Up
4675	NAP1L3	nucleosome assembly protein 1 like 3	0.772	4.031	Up
7105	TSPAN6	tetraspanin 6	0.996	2.772	Up
392509	ARL13A	ADP ribosylation factor like GTPase 13A	2.628	1.361	Up
79979	TRMT2B	tRNA methyltransferase 2 homolog B	0.497	1.426	Up
695	BTK	Bruton tyrosine kinase	2.471	4.038	Up
84460	ZMAT1	zinc finger matrin-type 1	2.06	5.861	Up
9737	GPRASP1	G protein-coupled receptor associated sorting protein 1	1.378	4.902	Up
114928	GPRASP2	G protein-coupled receptor associated sorting protein 2	1.234	3.798	Up
56271	BEX4	brain expressed X-linked 4	0.845	3.654	Up
90843	TCEAL8	transcription elongation factor A like 8	0.968	2.594	Up
84707	BEX2	brain expressed X-linked 2	0.478	1.368	Up
27018	BEX3	brain expressed X-linked 3	1.622	9.524	Up
9338	TCEAL1	transcription elongation factor A like 1	0.739	1.713	Up
401612	SLC25A53	solute carrier family 25 member 53	2.699	7.796	Up
644353	ZCCHC18	zinc finger CCHC-type containing 18	1.902	5.901	Up
286437	LOC286437	uncharacterized LOC286437	1.09	1.551	Up
139231	FAM199X	family with sequence similarity 199, X-linked	0.719	2.64	Up
79710	MORC4	MORC family CW-type zinc finger 4	1.111	5.927	Up
54830	NUP62CL	nucleoporin 62 C-terminal like	2.175	2.051	Up
84443	FRMPD3	FERM and PDZ domain containing 3	2.687	1.398	Up
1831	TSC22D3	TSC22 domain family member 3	5.454	87.743	Up
11043	MID2	midline 2	0.816	5.965	Up
340547	VSIG1	V-set and immunoglobulin domain containing 1	4.746	51.553	Up
5063	PAK3	p21 (RAC1) activated kinase 3	0.914	2.591	Up
154796	AMOT	angiomotin	1.05	1.526	Up
139818	DOCK11	dedicator of cytokinesis 11	1.121	7.413	Up
3597	IL13RA1	interleukin 13 receptor subunit alpha 1	2.076	3.183	Up
79836	LONRF3	LON peptidase N-terminal domain and ring finger 3	0.941	6.197	Up
23157	SEPTIN6	septin 6	0.439	1.634	Up
347454	SOWAHD	sosondowah ankyrin repeat domain family member D	3.396	4.484	Up
6170	RPL39	ribosomal protein L39	0.93	1.566	Up
7737	RNF113A	ring finger protein 113A	0.734	3.967	Up
10009	ZBTB33	zinc finger and BTB domain containing 33	0.536	1.963	Up
55026	TMEM255A	transmembrane protein 255A	1.271	1.333	Up
8450	CUL4B	cullin 4B	1.291	9.112	Up
9363	RAB33A	RAB33A, member RAS oncogene family	1.087	1.504	Up
55796	MBNL3	muscleblind like splicing regulator 3	1.144	3.383	Up
2239	GPC4	glypican 4	5.21	8.977	Up
7626	ZNF75D	zinc finger protein 75D	1.012	3.521	Up
203523	ZNF449	zinc finger protein 449	1.039	6.546	Up

399668	SMIM10L2A	small integral membrane protein 10 like 2A	1.174	1.442	Up
10479	SLC9A6	solute carrier family 9 member A6	0.496	1.387	Up
2332	FMR1	fragile X messenger ribonucleoprotein 1	0.578	2.382	Up
3423	IDS	iduronate 2-sulfatase	0.619	3.781	Up
1E+08	HSFX2	heat shock transcription factor family, X-linked 2	2.293	1.918	Up
84548	TMEM185A	transmembrane protein 185A	0.763	4.192	Up
1.01E+08	HSFX1	heat shock transcription factor family, X-linked 1	2.334	2.064	Up
7739	ZNF185	zinc finger protein 185 with LIM domain	2.337	14.484	Up
29944	PNMA3	PNMA family member 3	1.618	1.352	Up
11219	TREX2	three prime repair exonuclease 2	1.949	3.754	Up
1.05E+08	LOC105373383	uncharacterized LOC105373383	1.756	1.532	Up
5973	RENBP	renin binding protein	1.131	5.929	Up
1.01E+08	HCFC1-AS1	HCFC1 antisense RNA 1	3.536	2.424	Up
8269	TMEM187	transmembrane protein 187	1.498	9.477	Up
4204	MECP2	methyl-CpG binding protein 2	1.042	5.766	Up
8277	TKTL1	transketolase like 1	5.805	13.329	Up
6134	RPL10	ribosomal protein L10	0.751	1.551	Up
6901	TAFAZZIN	tafazzin, phospholipid-lysophospholipid transacylase	0.455	3.566	Up
537	ATP6AP1	ATPase H+ transporting accessory protein 1	0.24	1.617	Up
8266	UBL4A	ubiquitin like 4A	0.548	1.713	Up
1E+08	FAM223A	family with sequence similarity 223 member A	2.478	2.35	Up
286967	FAM223B	family with sequence similarity 223 member B	2.218	1.758	Up
139716	GAB3	GRB2 associated binding protein 3	0.8	3.599	Up
4354	MPP1	MAGUK p55 scaffold protein 1	0.953	4.845	Up
8263	F8A1	coagulation factor VIII associated 1	0.474	1.931	Up
1E+08	CMC4	C-X9-C motif containing 4	1.279	6.377	Up
4515	MTCP1	mature T cell proliferation 1	1.02	5.145	Up
3581	IL9R	interleukin 9 receptor	1.731	7.808	Up
283788	LOC283788	FSHD region gene 1 pseudogene	1.224	1.617	Up
1.12E+08	LOC112268313		1.025	1.591	Up
4558	TRNF	tRNA-Phe	1.911	2.577	Up
4549	RNR1	s-rRNA	2.047	4.31	Up
4577	TRNV	tRNA-Val	1.708	2.371	Up
4550	RNR2	l-rRNA	2.176	4.137	Up
4567	TRNL1	tRNA-Leu	1.506	2.126	Up
4535	ND1	NADH dehydrogenase subunit 1	1.315	1.81	Up
4569	TRNM	tRNA-Met	1.117	1.369	Up
4536	ND2	NADH dehydrogenase subunit 2	1.095	1.387	Up
4553	TRNA	tRNA-Ala	1.718	3.749	Up
4570	TRNN	tRNA-Asn	1.669	3.37	Up
4511	TRNC	tRNA-Cys	1.627	3.195	Up
4579	TRNY	tRNA-Tyr	1.608	3.124	Up
4512	COX1	cytochrome c oxidase subunit I	1.357	1.604	Up
4574	TRNS1	tRNA-Ser	1.386	1.744	Up
4555	TRND	tRNA-Asp	1.458	1.334	Up
4566	TRNK	tRNA-Lys	1.246	1.398	Up
4514	COX3	cytochrome c oxidase subunit III	1.193	1.427	Up
4563	TRNG	tRNA-Gly	1.457	1.902	Up

4537	ND3	NADH dehydrogenase subunit 3	1.052	1.386	Up
4573	TRNR	tRNA-Arg	1.412	1.362	Up
4538	ND4	NADH dehydrogenase subunit 4	1.126	1.434	Up
4575	TRNS2	tRNA-Ser	1.537	1.695	Up
4568	TRNL2	tRNA-Leu	1.404	2.133	Up
4540	ND5	NADH dehydrogenase subunit 5	0.947	1.496	Up
4541	ND6	NADH dehydrogenase subunit 6	0.978	1.581	Up
4556	TRNE	tRNA-Glu	0.953	1.417	Up
4519	CYTB	cytochrome b	1.466	2.027	Up
4576	TRNT	tRNA-Thr	1.318	1.583	Up
4571	TRNP	tRNA-Pro	2.354	5.707	Up

Table s4: TB-PE vs Activat_TB-PE

GeneID	Symbol	Description	log2(fold change)	#NAME?	Set
148398	SAMD11	sterile alpha motif domain containing 11	-1.004	4.39	Down
26155	NOC2L	NOC2 like nucleolar associated transcriptional repressor	-1.187	9.748	Down
57801	HES4	hes family bHLH transcription factor 4	-5.84	2.906	Down
375790	AGRN	agrin	-1.55	2.759	Down
1E+08	LOC100288175	uncharacterized LOC100288175	-2.897	7.409	Down
1.05E+08	LOC105378948	uncharacterized LOC105378948	-2.058	4.615	Down
54991	C1orf159	chromosome 1 open reading frame 159	-0.499	1.37	Down
8784	TNFRSF18	TNF receptor superfamily member 18	-3.856	15.832	Down
7293	TNFRSF4	TNF receptor superfamily member 4	-5.203	7.634	Down
51150	SDF4	stromal cell derived factor 4	-0.667	2.958	Down
54973	INTS11	integrator complex subunit 11	-0.527	2.536	Down
54998	AURKAIP1	aurora kinase A interacting protein 1	-0.605	1.731	Down
55052	MRPL20	mitochondrial ribosomal protein L20	-0.952	3.984	Down
219293	ATAD3C	ATPase family AAA domain containing 3C	-1.218	4.809	Down
83858	ATAD3B	ATPase family AAA domain containing 3B	-1.681	4.567	Down
55210	ATAD3A	ATPase family AAA domain containing 3A	-1.635	9.144	Down
2782	GNB1	G protein subunit beta 1	-0.452	3.504	Down
339456	TMEM52	transmembrane protein 52	-2.478	1.975	Down
115110	TNFRSF14-AS1	TNFRSF14 antisense RNA 1	-0.778	3.277	Down
8764	TNFRSF14	TNF receptor superfamily member 14	-0.452	2.237	Down
127281	PRXL2B	peroxiredoxin like 2B	-0.826	5.12	Down
79258	MMEL1	membrane metalloendopeptidase like 1	-0.739	1.988	Down
388591	RNF207	ring finger protein 207	-1.713	2.363	Down
11332	ACOT7	acyl-CoA thioesterase 7	-2.749	21.395	Down
55735	DNAJC11	DnaJ heat shock protein family (Hsp40) member C11	-0.8	3.891	Down

3604	TNFRSF9	TNF receptor superfamily member 9	-4.584	6.855	Down
11315	PARK7	Parkinsonism associated deglycase	-1.065	4.293	Down
54206	ERRFI1	ERBB receptor feedback inhibitor 1	-1.08	1.754	Down
2023	ENO1	enolase 1	-1.397	2.644	Down
1.02E+08	MIR6728	microRNA 6728	-1.869	2.139	Down
84275	SLC25A33	solute carrier family 25 member 33	-0.999	3.552	Down
54897	CASZ1	castor zinc finger 1	-1.452	2.553	Down
23435	TARDBP	TAR DNA binding protein	-0.481	1.797	Down
6723	SRM	spermidine synthase	-1.529	12.493	Down
26270	FBXO6	F-box protein 6	-1.473	2.039	Down
10459	MAD2L2	mitotic arrest deficient 2 like 2	-0.679	2.746	Down
5351	PLOD1	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	-1.092	2.164	Down
9927	MFN2	mitofusin 2	-0.439	1.5	Down
943	TNFRSF8	TNF receptor superfamily member 8	-5.448	5.664	Down
79180	EFHD2	EF-hand domain family member D2	-0.432	1.413	Down
79814	AGMAT	agmatinase	-0.787	1.548	Down
26099	SZRD1	SUZ RNA binding domain containing 1	-0.956	7.725	Down
374955	SPATA21	spermatogenesis associated 21	-0.912	6.687	Down
6390	SDHB	succinate dehydrogenase complex iron sulfur subunit B	-0.72	2.286	Down
51154	MRTO4	MRT4 homolog, ribosome maturation factor	-1.488	6.644	Down
10236	HNRNPR	heterogeneous nuclear ribonucleoprotein R	-0.772	11.769	Down
1.05E+08	LOC105376860	uncharacterized LOC105376860	-0.837	3.696	Down
11313	LYPLA2	lysophospholipase 2	-0.767	3.863	Down
2582	GALE	UDP-galactose-4-epimerase	-1.858	9.615	Down
10772	SRSF10	serine and arginine rich splicing factor 10	-0.809	6.519	Down
163702	IFNLR1	interferon lambda receptor 1	-0.86	1.66	Down
25932	CLIC4	chloride intracellular channel 4	-1.667	3.124	Down
1.05E+08	RUNX3-AS1	RUNX3 antisense RNA 1	-1.012	1.823	Down

51042	ZNF593	zinc finger protein 593	-1.66	9.381	Down
64793	CEP85	centrosomal protein 85	-0.525	2.674	Down
79947	DHDDS	dehydrodolichyl diphosphate synthase subunit	-0.709	6.434	Down
84243	ZDHHC18	zinc finger DHHC-type palmitoyltransferase 18	-0.877	9.786	Down
10726	NUDC	nuclear distribution C, dynein complex regulator	-0.806	7.916	Down
83667	SESN2	sestrin 2	-2.851	13.046	Down
1104	RCC1	regulator of chromosome condensation 1	-0.505	1.968	Down
54952	TRNAU1AP	tRNA selenocysteine 1 associated protein 1	-0.917	3.899	Down
51102	MECR	mitochondrial trans-2-enoyl-CoA reductase	-1.034	6.424	Down
576	ADGRB2	adhesion G protein-coupled receptor B2	-1.894	1.45	Down
23633	KPNA6	karyopherin subunit alpha 6	-0.558	3.129	Down
200081	TXLNA	taxilin alpha	-0.628	1.601	Down
3065	HDAC1	histone deacetylase 1	-0.632	4.643	Down
5928	RBBP4	RB binding protein 4, chromatin remodeling factor	-0.422	1.665	Down
81493	SYNC	syncoilin, intermediate filament protein	-0.437	1.69	Down
57648	KIAA1522	KIAA1522	-0.922	1.749	Down
8565	YARS1	tyrosyl-tRNA synthetase 1	-1.071	3.666	Down
127544	RNF19B	ring finger protein 19B	-0.64	1.305	Down
204	AK2	adenylate kinase 2	-1.071	5.555	Down
113444	SMIM12	small integral membrane protein 12	-0.643	2.212	Down
6421	SFPQ	splicing factor proline and glutamine rich	-1.508	9.868	Down
5690	PSMB2	proteasome 20S subunit beta 2	-1.491	18.29	Down
127703	C1orf216	chromosome 1 open reading frame 216	-1.58	12.793	Down
63967	CLSPN	claspin	-2.413	3.197	Down
83931	STK40	serine/threonine kinase 40	-0.932	3.778	Down
64960	MRPS15	mitochondrial ribosomal protein S15	-0.877	2.514	Down
80149	ZC3H12A	zinc finger CCCH-type containing 12A	-2.772	6.68	Down
29889	GNL2	G protein nucleolar 2	-1.089	9.213	Down

79693	YRDC	yrdC N6-threonylcarbamoyltransferase domain containing	-1.69	12.711	Down
127687	C1orf122	chromosome 1 open reading frame 122	-0.638	1.571	Down
4520	MTF1	metal regulatory transcription factor 1	-0.593	2.828	Down
10946	SF3A3	splicing factor 3a subunit 3	-0.441	1.472	Down
51118	UTP11	UTP11 small subunit processome component	-0.991	4.481	Down
84879	MFSD2A	MFSD2 lysolipid transporter A, lysophospholipid	-3.155	8.229	Down
10487	CAP1	cyclase associated actin cytoskeleton regulatory protein 1	-0.612	2.842	Down
10269	ZMPSTE24	zinc metallopeptidase STE24	-0.965	3.794	Down
1298	COL9A2	collagen type IX alpha 2 chain	-1.43	2.837	Down
64789	EXO5	exonuclease 5	-0.726	2.318	Down
1503	CTPS1	CTP synthase 1	-2.324	18.128	Down
59269	HIVEP3	HIVEP zinc finger 3	-1.694	4.165	Down
284716	RIMKLA	ribosomal modification protein rimK like family member A	-1.984	1.83	Down
10465	PPIH	peptidylprolyl isomerase H	-0.997	4.304	Down
10969	EBNA1BP2	EBNA1 binding protein 2	-1.651	11.915	Down
991	CDC20	cell division cycle 20	-3.131	12.1	Down
64834	ELOVL1	ELOVL fatty acid elongase 1	-0.595	4.299	Down
112950	MED8	mediator complex subunit 8	-0.445	1.39	Down
1802	DPH2	diphthamide biosynthesis 2	-1.204	7.629	Down
533	ATP6V0B	ATPase H+ transporting V0 subunit b	-0.79	3.942	Down
8704	B4GALT2	beta-1,4-galactosyltransferase 2	-2.114	5.118	Down
6536	SLC6A9	solute carrier family 6 member 9	-5.774	19.758	Down
79033	ERI3	ERI1 exoribonuclease family member 3	-0.492	1.612	Down
11004	KIF2C	kinesin family member 2C	-1.161	2.083	Down
8891	EIF2B3	eukaryotic translation initiation factor 2B subunit gamma	-1.594	14.074	Down
84842	HPDL	4-hydroxyphenylpyruvate dioxygenase like	-2.644	9.801	Down
114034	TOE1	target of EGR1, exonuclease	-0.633	2.348	Down
25974	MMACHC	metabolism of cobalamin associated C	-1.503	10.828	Down

5052	PRDX1	peroxiredoxin 1	-1.698	10.35	Down
10327	AKR1A1	aldo-keto reductase family 1 member A1	-1.171	4.051	Down
4678	NASP	nuclear autoantigenic sperm protein	-0.512	2.595	Down
55624	POMGNT1	protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)	-0.895	6.302	Down
8438	RAD54L	RAD54 like	-1.117	3.879	Down
10489	LRRC41	leucine rich repeat containing 41	-0.442	1.989	Down
387338	NSUN4	NOP2/Sun RNA methyltransferase 4	-0.669	2.656	Down
6491	STIL	STIL centriolar assembly protein	-0.939	2.326	Down
4998	ORC1	origin recognition complex subunit 1	-1.885	5.35	Down
65260	COA7	cytochrome c oxidase assembly factor 7	-1.059	6.513	Down
4116	MAGOH	mago homolog, exon junction complex subunit	-0.955	7.299	Down
7804	LRP8	LDL receptor related protein 8	-1.38	3.717	Down
1.05E+08	LOC105378728	uncharacterized LOC105378728	-1.559	1.426	Down
1.05E+08	LOC105378726	uncharacterized LOC105378726	-2.277	1.656	Down
1.05E+08	LRP8-DT	LRP8 divergent transcript	-1.894	1.332	Down
51668	HSPB11	heat shock protein family B (small) member 11	-0.57	1.515	Down
115353	LRRC42	leucine rich repeat containing 42	-1.035	9.604	Down
51253	MRPL37	mitochondrial ribosomal protein L37	-0.721	2.635	Down
1.01E+08	MROH7-TTC4	MROH7-TTC4 readthrough (NMD candidate)	-0.617	4.025	Down
7268	TTC4	tetratricopeptide repeat domain 4	-0.625	4.507	Down
1718	DHCR24	24-dehydrocholesterol reductase	-3.033	31.308	Down
1.08E+08	DHCR24-DT	DHCR24 divergent transcript	-4.559	1.81	Down
205	AK4	adenylate kinase 4	-2.132	1.609	Down
9829	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6	-0.788	2.153	Down
57708	MIER1	MIER1 transcriptional regulator	-0.568	4.692	Down
149233	IL23R	interleukin 23 receptor	-2.255	2.785	Down
3595	IL12RB2	interleukin 12 receptor subunit beta 2	-2.491	5.091	Down
1.05E+08	LOC105378779		-1.755	1.474	Down

26135	SERBP1	SERPINE1 mRNA binding protein 1	-0.64	2.465	Down
55631	LRRC40	leucine rich repeat containing 40	-0.513	1.636	Down
1E+08	ZRANB2-AS1	ZRANB2 antisense RNA 1	-0.935	4.319	Down
9406	ZRANB2	zinc finger RANBP2-type containing 2	-0.881	6.282	Down
1429	CRYZ	crystallin zeta	-0.706	1.483	Down
127253	TYW3	tRNA-yW synthesizing protein 3 homolog	-0.612	2.291	Down
5876	RABGGTB	Rab geranylgeranyltransferase subunit beta	-0.819	7.563	Down
91624	NEXN	nexilin F-actin binding protein	-1.316	7.422	Down
8880	FUBP1	far upstream element binding protein 1	-1.212	12.254	Down
10964	IFI44L	interferon induced protein 44 like	-2.424	1.502	Down
2787	GNG5	G protein subunit gamma 5	-0.498	1.487	Down
255231	MCOLN2	mucolipin TRP cation channel 2	-1.143	3.248	Down
8915	BCL10	BCL10 immune signaling adaptor	-0.365	1.804	Down
54680	ZNHIT6	zinc finger HIT-type containing 6	-0.529	1.767	Down
2633	GBP1	guanylate binding protein 1	-2.712	8.171	Down
2634	GBP2	guanylate binding protein 2	-1.319	6.366	Down
1.12E+08	LOC112268267	uncharacterized LOC112268267	-1.284	6.223	Down
388646	GBP7	guanylate binding protein 7	-2.248	2.626	Down
115361	GBP4	guanylate binding protein 4	-2.709	27.007	Down
115362	GBP5	guanylate binding protein 5	-3.018	10.04	Down
163351	GBP6	guanylate binding protein family member 6	-5.356	15.665	Down
400759	GBP1P1	guanylate binding protein 1 pseudogene 1	-2.583	4.783	Down
23507	LRRC8B	leucine rich repeat containing 8 VRAC subunit B	-0.637	3.107	Down
646817	SETSIP	SET like protein	-0.715	2.589	Down
11146	GLMN	glomulin, FKBP associated protein	-0.899	4.189	Down
2672	GFI1	growth factor independent 1 transcriptional repressor	-2.376	10.182	Down
7813	EVI5	ecotropic viral integration site 5	-1.42	5.157	Down
54874	FNBP1L	formin binding protein 1 like	-1.356	3.365	Down

2730	GCLM	glutamate-cysteine ligase modifier subunit	-1.302	15.64	Down
64645	MFSD14A	major facilitator superfamily domain containing 14A	-0.41	1.858	Down
148867	SLC30A7	solute carrier family 30 member 7	-0.508	2.775	Down
6884	TAF13	TATA-box binding protein associated factor 13	-0.971	4.432	Down
5686	PSMA5	proteasome 20S subunit alpha 5	-1.287	6.988	Down
127002	ATXN7L2	ataxin 7 like 2	-0.531	2.014	Down
2773	GNAI3	G protein subunit alpha i3	-0.671	3.843	Down
271	AMPD2	adenosine monophosphate deaminase 2	-0.408	1.659	Down
10542	LAMTOR5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-1.029	4.783	Down
79084	WDR77	WD repeat domain 77	-1.344	9.025	Down
5906	RAP1A	RAP1A, member of RAS oncogene family	-0.699	3.812	Down
1E+08	LINC01160	long intergenic non-protein coding RNA 1160	-3.617	4.997	Down
1.08E+08	LOC107985184	uncharacterized LOC107985184	-0.702	1.477	Down
11218	DDX20	DEAD-box helicase 20	-0.283	1.739	Down
6566	SLC16A1	solute carrier family 16 member 1	-1.222	5.508	Down
204851	HIPK1	homeodomain interacting protein kinase 1	-0.576	2.801	Down
10286	BCAS2	BCAS2 pre-mRNA processing factor	-0.691	3.337	Down
4893	NRAS	NRAS proto-oncogene, GTPase	-1.037	7.987	Down
81839	VANGL1	VANGL planar cell polarity protein 1	-1.029	5.635	Down
965	CD58	CD58 molecule	-0.502	1.532	Down
1.05E+08	LOC105378925	uncharacterized LOC105378925	-4.284	2.506	Down
3321	IGSF3	immunoglobulin superfamily member 3	-4.89	10.546	Down
914	CD2	CD2 molecule	-0.585	1.96	Down
5738	PTGFRN	prostaglandin F2 receptor inhibitor	-2.429	10.252	Down
10352	WARS2	tryptophanyl tRNA synthetase 2, mitochondrial	-0.798	4.481	Down
26227	PHGDH	phosphoglycerate dehydrogenase	-1.772	8.559	Down
4853	NOTCH2	notch receptor 2	-0.491	2.125	Down
653820	FAM72B	family with sequence similarity 72 member B	-2.028	1.613	Down

10401	PIAS3	protein inhibitor of activated STAT 3	-0.49	1.368	Down
9939	RBM8A	RNA binding motif protein 8A	-0.642	8.012	Down
1.05E+08	LIX1L-AS1	LIX1L antisense RNA 1	-1.206	13.723	Down
9557	CHD1L	chromodomain helicase DNA binding protein 1 like	-0.319	1.388	Down
171423	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1	-0.882	4.066	Down
2330	FMO5	flavin containing dimethylaniline monoxygenase 5	-0.809	2.493	Down
284561	LINC02806	long intergenic non-protein coding RNA 2806	-4.199	2.418	Down
644591	PPIAL4G	peptidylprolyl isomerase A like 4G	-1.015	1.379	Down
8349	H2BC21	H2B clustered histone 21	-0.834	1.985	Down
10262	SF3B4	splicing factor 3b subunit 4	-0.65	4.128	Down
56957	OTUD7B	OTU deubiquitinase 7B	-0.871	2.169	Down
81611	ANP32E	acidic nuclear phosphoprotein 32 family member E	-0.531	2.673	Down
9129	PRPF3	pre-mRNA processing factor 3	-0.965	3.278	Down
2029	ENSA	endosulfine alpha	-0.522	2.39	Down
8394	PIP5K1A	phosphatidylinositol-4-phosphate 5-kinase type 1 alpha	-0.682	5.644	Down
5710	PSMD4	proteasome 26S subunit ubiquitin receptor, non-ATPase 4	-0.535	1.773	Down
5993	RFX5	regulatory factor X5	-1.129	11.567	Down
5692	PSMB4	proteasome 20S subunit beta 4	-0.878	4.385	Down
1E+08	C2CD4D	C2 calcium dependent domain containing 4D	-1.326	2.984	Down
1E+08	C2CD4D-AS1	C2CD4D and THEM5 antisense RNA 1	-2.187	13.752	Down
284486	THEM5	thioesterase superfamily member 5	-1.468	2.466	Down
57115	PGLYRP4	peptidoglycan recognition protein 4	-5.533	3.201	Down
3608	ILF2	interleukin enhancer binding factor 2	-1.36	6.659	Down
7170	TPM3	tropomyosin 3	-0.69	4.144	Down
9898	UBAP2L	ubiquitin associated protein 2 like	-0.396	2.061	Down
10456	HAX1	HCLS1 associated protein X-1	-0.622	1.317	Down
1141	CHRNB2	cholinergic receptor nicotinic beta 2 subunit	-0.464	3.629	Down
103	ADAR	adenosine deaminase RNA specific	-0.481	2.248	Down

10654	PMVK	phosphomevalonate kinase	-0.807	3.437	Down
1163	CKS1B	CDC28 protein kinase regulatory subunit 1B	-0.867	1.696	Down
80308	FLAD1	flavin adenine dinucleotide synthetase 1	-0.897	5.555	Down
51043	ZBTB7B	zinc finger and BTB domain containing 7B	-0.509	2.273	Down
8751	ADAM15	ADAM metallopeptidase domain 15	-1.001	4.714	Down
4580	MTX1	metaxin 1	-0.691	3.656	Down
10067	SCAMP3	secretory carrier membrane protein 3	-0.676	3.517	Down
2224	FDPS	farnesyl diphosphate synthase	-1.064	4.18	Down
284618	RUSC1-AS1	RUSC1 antisense RNA 1	-0.937	3.526	Down
55154	MSTO1	misato mitochondrial distribution and morphology regulator 1	-0.492	1.426	Down
56893	UBQLN4	ubiquilin 4	-0.662	3.256	Down
4000	LMNA	lamin A/C	-1.827	4.827	Down
1.01E+08	PMF1-BGLAP	PMF1-BGLAP readthrough	-1.013	4.125	Down
11243	PMF1	polyamine modulated factor 1	-0.936	3.097	Down
7203	CCT3	chaperonin containing TCP1 subunit 3	-1.21	9.093	Down
10485	MIR9-1HG	MIR9-1 host gene	-3.044	3.861	Down
128240	NAXE	NAD(P)HX epimerase	-0.916	3.828	Down
54865	GPATCH4	G-patch domain containing 4 (gene/pseudogene)	-1.277	4.979	Down
79590	MRPL24	mitochondrial ribosomal protein L24	-0.896	2.724	Down
9047	SH2D2A	SH2 domain containing 2A	-1.209	4.539	Down
9447	AIM2	absent in melanoma 2	-1.771	3.993	Down
54935	DUSP23	dual specificity phosphatase 23	-0.812	2.165	Down
8407	TAGLN2	transgelin 2	-0.695	3.059	Down
6504	SLAMF1	signaling lymphocytic activation molecule family member 1	-1.339	8.559	Down
5202	PFDN2	prefoldin subunit 2	-1.173	7.195	Down
8703	B4GALT3	beta-1,4-galactosyltransferase 3	-0.477	1.822	Down
4720	NDUFS2	NADH:ubiquinone oxidoreductase core subunit S2	-0.567	4.382	Down
84134	TOMM40L	translocase of outer mitochondrial membrane 40 like	-1.418	5.755	Down

9970	NR1I3	nuclear receptor subfamily 1 group I member 3	-1.584	2.649	Down
1E+08	TRE-TTC4-2	tRNA-Glu (anticodon TTC) 4-2	-1.917	2.693	Down
7371	UCK2	uridine-cytidine kinase 2	-1.999	21.617	Down
1.01E+08	MIR3658	microRNA 3658	-2.114	3.804	Down
387597	ILDR2	immunoglobulin like domain containing receptor 2	-1.962	6.492	Down
261726	TIPRL	TOR signaling pathway regulator	-0.664	1.477	Down
6846	XCL2	X-C motif chemokine ligand 2	-1.426	2.425	Down
10560	SLC19A2	solute carrier family 19 member 2	-0.985	4.177	Down
22920	KIFAP3	kinesin associated protein 3	-0.894	3.29	Down
7151	TOP1P1	DNA topoisomerase I pseudogene 1	-0.773	1.4	Down
356	FASLG	Fas ligand	-1.528	4.911	Down
55157	DARS2	aspartyl-tRNA synthetase 2, mitochondrial	-0.513	2.854	Down
27101	CACYBP	calcyclin binding protein	-0.569	1.89	Down
84320	ACBD6	acyl-CoA binding domain containing 6	-0.55	2.79	Down
51278	IER5	immediate early response 5	-1.738	17.563	Down
6004	RGS16	regulator of G protein signaling 16	-3.797	17.608	Down
647070	DHX9-AS1	DHX9 antisense RNA 1	-0.759	3.715	Down
1660	DHX9	DExH-box helicase 9	-0.979	12.783	Down
116461	TSEN15	tRNA splicing endonuclease subunit 15	-1.342	7.17	Down
5996	RGS1	regulator of G protein signaling 1	-2.269	4.602	Down
1.08E+08	LOC107985241	uncharacterized LOC107985241	-2.669	1.461	Down
6003	RGS13	regulator of G protein signaling 13	-4	2.17	Down
51377	UCHL5	ubiquitin C-terminal hydrolase L5	-0.505	2.204	Down
1.02E+08	LOC101929160		-0.56	1.846	Down
79577	CDC73	cell division cycle 73	-0.568	3.266	Down
163486	DENND1B	DENN domain containing 1B	-0.571	1.574	Down
55765	INAVA	innate immunity activator	-3.907	4.034	Down
10440	TIMM17A	translocase of inner mitochondrial membrane 17A	-1.12	5.4	Down

5778	PTPN7	protein tyrosine phosphatase non-receptor type 7	-1.646	27.676	Down
29089	UBE2T	ubiquitin conjugating enzyme E2 T	-1.028	2.658	Down
7832	BTG2	BTG anti-proliferation factor 2	-0.885	3.412	Down
84919	PPP1R15B	protein phosphatase 1 regulatory subunit 15B	-0.617	2.215	Down
5287	PIK3C2B	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	-0.574	1.315	Down
1E+08	TRK-TTT3-1	tRNA-Lys (anticodon TTT) 3-1	-3.279	1.403	Down
9911	TMCC2	transmembrane and coiled-coil domain family 2	-1.267	1.913	Down
9641	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.931	3.231	Down
3586	IL10	interleukin 10	-4.648	18.145	Down
29949	IL19	interleukin 19	-4.186	8.026	Down
55432	YOD1	YOD1 deubiquitinase	-0.646	3.462	Down
7779	SLC30A1	solute carrier family 30 member 1	-1.227	7.206	Down
9926	LPGAT1	lysophosphatidylglycerol acyltransferase 1	-0.617	3.189	Down
25896	INTS7	integrator complex subunit 7	-0.986	6.246	Down
51514	DTL	denticleless E3 ubiquitin protein ligase homolog	-3.727	22.883	Down
55509	BATF3	basic leucine zipper ATF-like transcription factor 3	-3.851	8.136	Down
28982	FLVCR1	FLVCR heme transporter 1	-0.664	2.003	Down
51018	RRP15	ribosomal RNA processing 15 homolog	-0.822	3.506	Down
2058	EPRS1	glutamyl-prolyl-tRNA synthetase 1	-0.492	2.01	Down
10380	BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1	-0.511	1.598	Down
11221	DUSP10	dual specificity phosphatase 10	-1.555	3.984	Down
7159	TP53BP2	tumor protein p53 binding protein 2	-0.619	1.44	Down
6726	SRP9	signal recognition particle 9	-0.539	1.319	Down
163859	SDE2	SDE2 telomere maintenance homolog	-0.505	2.025	Down
5664	PSEN2	presenilin 2	-1.851	3.422	Down
339500	ZNF678	zinc finger protein 678	-0.929	5.131	Down
65094	JMJD4	jumonji domain containing 4	-0.454	1.836	Down
58480	RHOU	ras homolog family member U	-1.487	1.529	Down

58	ACTA1	actin alpha 1, skeletal muscle	-1.774	6.801	Down
9816	URB2	URB2 ribosome biogenesis homolog	-1.168	3.175	Down
83932	SPRTN	SprT-like N-terminal domain	-0.463	1.324	Down
3775	KCNK1	potassium two pore domain channel subfamily K member 1	-2.69	2.095	Down
6894	TARBP1	TAR (HIV-1) RNA binding protein 1	-0.539	1.353	Down
1.01E+08	LINC01132	long intergenic non-protein coding RNA 1132	-7.235	6.432	Down
6905	TBCE	tubulin folding cofactor E	-0.534	1.525	Down
2786	GNG4	G protein subunit gamma 4	-2.661	3.137	Down
128178	EDARADD	EDAR associated death domain	-1.22	3.469	Down
55127	HEATR1	HEAT repeat containing 1	-0.533	2.051	Down
1E+08	LOC100130331	POTE ankyrin domain family, member F pseudogene	-1.535	1.862	Down
2271	FH	fumarate hydratase	-0.773	3.884	Down
9156	EXO1	exonuclease 1	-1.823	2.48	Down
51029	DESI2	desumoylating isopeptidase 2	-0.582	1.491	Down
116228	COX20	cytochrome c oxidase assembly factor COX20	-0.555	2.319	Down
3192	HNRNPU	heterogeneous nuclear ribonucleoprotein U	-0.601	1.81	Down
1.07E+08	SNORA100	small nucleolar RNA, H/ACA box 100	-0.573	1.36	Down
64216	TFB2M	transcription factor B2, mitochondrial	-0.662	2.933	Down
51097	SCCPDH	saccharopine dehydrogenase (putative)	-1.615	4.67	Down
7260	EIPR1	EARP complex and GARP complex interacting protein 1	-0.682	2.58	Down
386597	GRASLND	glycosaminoglycan regulatory associated long non-coding RNA	-1.65	9.902	Down
1.01E+08	LOC100506274	uncharacterized LOC100506274	-2.152	1.412	Down
1.02E+08	LOC101929510	uncharacterized LOC101929510	-1.725	3.129	Down
1.02E+08	LINC01871	long intergenic non-protein coding RNA 1871	-1.602	4.298	Down
3398	ID2	inhibitor of DNA binding 2	-2.163	6.844	Down
9270	ITGB1BP1	integrin subunit beta 1 binding protein 1	-0.593	4.356	Down
51692	CPSF3	cleavage and polyadenylation specific factor 3	-0.513	2.002	Down
285148	IAH1	isoamyl acetate hydrolyzing esterase 1 (putative)	-0.424	1.452	Down

10971	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta	-1.49	23.659	Down
9014	TAF1B	TATA-box binding protein associated factor, RNA polymerase I subunit B	-0.712	1.736	Down
29841	GRHL1	grainyhead like transcription factor 1	-1.807	1.507	Down
6241	RRM2	ribonucleotide reductase regulatory subunit M2	-2.687	10.563	Down
4953	ODC1	ornithine decarboxylase 1	-1.642	9.052	Down
79954	NOL10	nucleolar protein 10	-0.918	5.975	Down
245973	ATP6V1C2	ATPase H+ transporting V1 subunit C2	-1.019	3.388	Down
10130	PDIA6	protein disulfide isomerase family A member 6	-1.082	4.639	Down
1876	E2F6	E2F transcription factor 6	-0.558	2.894	Down
1653	DDX1	DEAD-box helicase 1	-0.732	3.039	Down
348654	GEN1	GEN1 Holliday junction 5' flap endonuclease	-0.701	4.095	Down
60526	LDAH	lipid droplet associated hydrolase	-0.67	1.605	Down
51639	SF3B6	splicing factor 3b subunit 6	-0.638	1.969	Down
79172	CENPO	centromere protein O	-0.601	3.441	Down
109	ADCY3	adenylate cyclase 3	-0.996	3.269	Down
10890	RAB10	RAB10, member RAS oncogene family	-0.758	3.052	Down
1.05E+08	LOC105374333	uncharacterized LOC105374333	-1.626	1.95	Down
85465	SELENOI	selenoprotein I	-1.594	19.024	Down
9381	OTOF	otoferlin	-1.575	1.415	Down
54867	TMEM214	transmembrane protein 214	-0.546	2.729	Down
10113	PREB	prolactin regulatory element binding	-0.491	1.807	Down
8884	SLC5A6	solute carrier family 5 member 6	-1.244	7.321	Down
790	CAD	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	-0.785	3.564	Down
8890	EIF2B4	eukaryotic translation initiation factor 2B subunit delta	-0.478	2.403	Down
29959	NRBP1	nuclear receptor binding protein 1	-0.386	1.718	Down
84226	C2orf16	chromosome 2 open reading frame 16	-2.488	3.858	Down
11321	GPN1	GPN-loop GTPase 1	-0.658	2.01	Down
9913	SUPT7L	SPT7 like, STAGA complex subunit gamma	-0.5	3.769	Down

22950	SLC4A1AP	solute carrier family 4 member 1 adaptor protein	-0.433	2.744	Down
64080	RBKS	ribokinase	-1.663	11.712	Down
9577	BABAM2	BRISC and BRCA1 A complex member 2	-0.468	1.479	Down
2355	FOSL2	FOS like 2, AP-1 transcription factor subunit	-1.139	2.755	Down
23160	WDR43	WD repeat domain 43	-0.782	7.131	Down
51072	MEMO1	mediator of cell motility 1	-1.116	8.647	Down
55622	TTC27	tetratricopeptide repeat domain 27	-1.4	10.506	Down
25780	RASGRP3	RAS guanyl releasing protein 3	-2.553	8.531	Down
25940	FAM98A	family with sequence similarity 98 member A	-0.995	6.352	Down
92906	HNRNPLL	heterogeneous nuclear ribonucleoprotein L like	-0.791	6.409	Down
130589	GALM	galactose mutarotase	-0.888	3.185	Down
6432	SRSF7	serine and arginine rich splicing factor 7	-1.683	22.345	Down
63892	THADA	THADA armadillo repeat containing	-0.361	1.329	Down
2034	EPAS1	endothelial PAS domain protein 1	-3.186	10.782	Down
57217	TTC7A	tetratricopeptide repeat domain 7A	-1.298	8.446	Down
494143	CHAC2	ChaC glutathione specific gamma-glutamylcyclotransferase 2	-2.006	12.767	Down
87178	PNPT1	polyribonucleotide nucleotidyltransferase 1	-1.624	22.33	Down
7444	VRK2	VRK serine/threonine kinase 2	-0.574	3.07	Down
55120	FANCL	FA complementation group L	-0.636	2.253	Down
5966	REL	REL proto-oncogene, NF-kB subunit	-1.393	3.193	Down
7514	XPO1	exportin 1	-1.049	9.11	Down
10575	CCT4	chaperonin containing TCP1 subunit 4	-0.727	1.719	Down
150684	COMMD1	copper metabolism domain containing 1	-0.693	2.077	Down
4190	MDH1	malate dehydrogenase 1	-0.598	1.493	Down
57162	PELI1	pellino E3 ubiquitin protein ligase 1	-1.24	3.822	Down
29094	LGALSL	galectin like	-1.826	2.271	Down
10097	ACTR2	actin related protein 2	-0.41	1.919	Down
200734	SPRED2	sprouty related EVH1 domain containing 2	-1.527	1.341	Down

56902	PNO1	partner of NOB1 homolog	-1.392	6.553	Down
200558	APLF	aprataxin and PNKP like factor	-0.84	1.804	Down
2673	GFPT1	glutamine--fructose-6-phosphate transaminase 1	-0.653	4.307	Down
11017	SNRNP27	small nuclear ribonucleoprotein U4/U6.U5 subunit 27	-0.64	5.744	Down
7072	TIA1	TIA1 cytotoxic granule associated RNA binding protein	-1.055	7.183	Down
6637	SNRPG	small nuclear ribonucleoprotein polypeptide G	-1.489	8.914	Down
84908	FAM136A	family with sequence similarity 136 member A	-0.567	1.659	Down
55577	NAGK	N-acetylglucosamine kinase	-0.714	2.52	Down
10322	SMYD5	SMYD family member 5	-0.393	1.324	Down
10574	CCT7	chaperonin containing TCP1 subunit 7	-1.246	5.946	Down
1961	EGR4	early growth response 4	-7.329	6.012	Down
388962	BOLA3	bolA family member 3	-1.542	6.771	Down
10797	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	-2.058	6.619	Down
57835	SLC4A5	solute carrier family 4 member 5	-1.062	1.78	Down
550	AUP1	AUP1 lipid droplet regulating VLDL assembly factor	-0.525	2.005	Down
27429	HTRA2	HtrA serine peptidase 2	-0.753	3.579	Down
9801	MRPL19	mitochondrial ribosomal protein L19	-0.929	6.995	Down
6936	GCFC2	GC-rich sequence DNA-binding factor 2	-0.496	4.503	Down
9168	TMSB10	thymosin beta 10	-0.806	1.53	Down
4144	MAT2A	methionine adenosyltransferase 2A	-0.953	4.1	Down
2677	GGCX	gamma-glutamyl carboxylase	-0.475	1.975	Down
51255	RNF181	ring finger protein 181	-0.761	1.712	Down
25885	POLR1A	RNA polymerase I subunit A	-0.877	2.603	Down
10989	IMMT	inner membrane mitochondrial protein	-0.864	3.197	Down
51318	MRPL35	mitochondrial ribosomal protein L35	-1.027	4.52	Down
1E+08	ANAPC1P1	ANAPC1 pseudogene 1	-0.713	1.585	Down
1.02E+08	LINC01943	long intergenic non-protein coding RNA 1943	-3.596	15.136	Down
112597	CYTOR	cytoskeleton regulator RNA	-1.546	5.576	Down

22934	RPIA	ribose 5-phosphate isomerase A	-0.846	4.765	Down
64969	MRPS5	mitochondrial ribosomal protein S5	-0.49	3.178	Down
150763	GPAT2	glycerol-3-phosphate acyltransferase 2, mitochondrial	-1.074	2.217	Down
1844	DUSP2	dual specificity phosphatase 2	-2.129	7.668	Down
56910	STARD7	StAR related lipid transfer domain containing 7	-0.611	3.015	Down
150771	ITPRIPL1	ITPRIP like 1	-0.943	3.711	Down
93082	NEURL3	neuralized E3 ubiquitin protein ligase 3	-3.294	3.171	Down
26504	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4	-0.696	3.266	Down
51239	ANKRD39	ankyrin repeat domain 39	-1.359	7.252	Down
129531	MITD1	microtubule interacting and trafficking domain containing 1	-0.639	2.107	Down
10190	TXNDC9	thioredoxin domain containing 9	-0.819	2.807	Down
9669	EIF5B	eukaryotic translation initiation factor 5B	-0.705	1.421	Down
79031	PDCL3	phosducin like 3	-0.876	6.986	Down
55571	CNOT11	CCR4-NOT transcription complex subunit 11	-0.548	3.098	Down
7850	IL1R2	interleukin 1 receptor type 2	-3.735	6.378	Down
3554	IL1R1	interleukin 1 receptor type 1	-1.433	2.203	Down
8808	IL1RL2	interleukin 1 receptor like 2	-3.066	3.554	Down
64965	MRPS9	mitochondrial ribosomal protein S9	-0.502	1.625	Down
1.02E+08	MRPS9-AS1	MRPS9 antisense RNA 1	-0.667	1.922	Down
79074	C2orf49	chromosome 2 open reading frame 49	-0.499	1.989	Down
205251	MTLN	mitoregulin	-0.547	1.95	Down
541471	MIR4435-2HG	MIR4435-2 host gene	-1.692	5.232	Down
1.05E+08	SOCAR	serous ovarian cancer associated RNA	-3.664	13.962	Down
64682	ANAPC1	anaphase promoting complex subunit 1	-0.483	2.336	Down
150468	CKAP2L	cytoskeleton associated protein 2 like	-2.527	3.798	Down
3552	IL1A	interleukin 1 alpha	-5.124	2.835	Down
3553	IL1B	interleukin 1 beta	-2.99	1.62	Down
23550	PSD4	pleckstrin and Sec7 domain containing 4	-0.812	2.227	Down

150472	ZNG1B	Zn regulated GTPase metalloprotein activator 1B	-1.038	10.847	Down
10096	ACTR3	actin related protein 3	-1.015	5.311	Down
1622	DBI	diazepam binding inhibitor, acyl-CoA binding protein	-1.057	4.455	Down
1.05E+08	LOC105373582	uncharacterized LOC105373582	-2.374	2.854	Down
79134	TMEM185B	transmembrane protein 185B	-0.536	3.919	Down
5899	RALB	RAS like proto-oncogene B	-1.799	24.383	Down
84365	NIFK	nucleolar protein interacting with the FHA domain of MKI67	-0.537	1.604	Down
9394	HS6ST1	heparan sulfate 6-O-sulfotransferase 1	-0.414	2.436	Down
728378	POTEF	POTE ankyrin domain family member F	-1.685	4.067	Down
92856	IMP4	IMP U3 small nucleolar ribonucleoprotein 4	-0.465	1.842	Down
653269	POTEI	POTE ankyrin domain family member I	-1.503	3.891	Down
653781	POTEJ	POTE ankyrin domain family member J	-1.63	3.877	Down
445582	POTEE	POTE ankyrin domain family member E	-1.607	4.323	Down
401010	NOC2LP2	NOC2 like nucleolar associated transcriptional repressor pseudogene 2	-1.324	3.005	Down
440915	POTEKP	POTE ankyrin domain family member K, pseudogene	-1.523	3.815	Down
4175	MCM6	minichromosome maintenance complex component 6	-0.53	1.792	Down
1.05E+08	LOC105373645	uncharacterized LOC105373645	-3.775	1.357	Down
79712	GTDC1	glycosyltransferase like domain containing 1	-0.446	1.614	Down
55660	PRPF40A	pre-mRNA processing factor 40 homolog A	-0.455	1.936	Down
2820	GPD2	glycerol-3-phosphate dehydrogenase 2	-0.677	2.865	Down
9595	CYTIP	cytohesin 1 interacting protein	-0.848	3.593	Down
90	ACVR1	activin A receptor type 1	-0.448	1.413	Down
10010	TANK	TRAF family member associated NFKB activator	-1.273	8.456	Down
10213	PSMD14	proteasome 26S subunit, non-ATPase 14	-2.143	27.924	Down
57282	SLC4A10	solute carrier family 4 member 10	-2.086	2.552	Down
1E+08	DPP4-DT	DPP4 divergent transcript	-1.571	2.543	Down
64135	IFIH1	interferon induced with helicase C domain 1	-1.466	9.167	Down
253782	CERS6	ceramide synthase 6	-0.909	2.549	Down

1.01E+08	CERS6-AS1	CERS6 antisense RNA 1	-0.863	2.01	Down
57405	SPC25	SPC25 component of NDC80 kinetochore complex	-2.469	1.384	Down
79675	FASTKD1	FAST kinase domains 1	-0.936	1.342	Down
6741	SSB	small RNA binding exonuclease protection factor La	-0.381	1.949	Down
29081	METTL5	methyltransferase 5, N6-adenosine	-0.501	1.334	Down
8604	SLC25A12	solute carrier family 25 member 12	-0.477	1.513	Down
51776	MAP3K20	mitogen-activated protein kinase kinase kinase 20	-1.168	2.312	Down
83879	CDCA7	cell division cycle associated 7	-1.356	3.31	Down
518	ATP5MC3	ATP synthase membrane subunit c locus 3	-0.99	4.899	Down
10651	MTX2	metaxin 2	-0.836	3.459	Down
220988	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	-1.003	8.401	Down
1.01E+08	MIR4444-1	microRNA 4444-1	-1.137	7.302	Down
8540	AGPS	alkylglycerone phosphate synthase	-1.002	7.17	Down
129831	RBM45	RNA binding motif protein 45	-0.764	4.453	Down
54431	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10	-0.916	7.763	Down
10787	NCKAP1	NCK associated protein 1	-0.624	1.614	Down
129401	NUP35	nucleoporin 35	-1.072	3.509	Down
55854	ZC3H15	zinc finger CCCH-type containing 15	-0.467	2.276	Down
84128	WDR75	WD repeat domain 75	-0.716	4.048	Down
26275	HIBCH	3-hydroxyisobutyryl-CoA hydrolase	-0.885	4.043	Down
3628	INPP1	inositol polyphosphate-1-phosphatase	-1.131	2.767	Down
4664	NAB1	NGFI-A binding protein 1	-0.986	3.116	Down
2744	GLS	glutaminase	-1.026	6.975	Down
6772	STAT1	signal transducer and activator of transcription 1	-2.807	21.295	Down
1.05E+08	STAT4-AS1	STAT4 antisense RNA 1	-0.552	1.307	Down
4430	MYO1B	myosin IB	-3.42	8.922	Down
64859	NABP1	nucleic acid binding protein 1	-1.755	5.965	Down
9262	STK17B	serine/threonine kinase 17b	-0.75	3.021	Down

1.02E+08	LOC101927454	uncharacterized LOC101927454	-0.681	1.96	Down
57520	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	-3.818	10.608	Down
80219	COQ10B	coenzyme Q10B	-0.664	2.946	Down
3329	HSPD1	heat shock protein family D (Hsp60) member 1	-1.176	5.96	Down
1.07E+08	SNORA105B	small nucleolar RNA, H/ACA box 105B	-1.143	5.708	Down
1.01E+08	HSPE1-MOB4	HSPE1-MOB4 readthrough	-1.009	7.025	Down
3336	HSPE1	heat shock protein family E (Hsp10) member 1	-1.805	14.796	Down
79568	MAIP1	matrix AAA peptidase interacting protein 1	-0.738	2.636	Down
1.02E+08	BZW1-AS1	BZW1 antisense RNA 1	-1.203	10.276	Down
9689	BZW1	basic leucine zipper and W2 domains 1	-1.239	9.236	Down
8837	CFLAR	CASP8 and FADD like apoptosis regulator	-0.887	2.465	Down
65072	CFLAR-AS1	CFLAR antisense RNA 1	-1.9	21.735	Down
57679	ALS2	alsin Rho guanine nucleotide exchange factor ALS2	-0.51	1.326	Down
7341	SUMO1	small ubiquitin like modifier 1	-0.616	1.609	Down
51602	NOP58	NOP58 ribonucleoprotein	-0.776	4.384	Down
130026	ICA1L	islet cell autoantigen 1 like	-1.111	2.874	Down
55759	WDR12	WD repeat domain 12	-1.521	24.585	Down
940	CD28	CD28 molecule	-0.48	1.936	Down
1493	CTLA4	cytotoxic T-lymphocyte associated protein 4	-4.066	17.204	Down
1.02E+08	LOC101927840	uncharacterized LOC101927840	-1.834	2.446	Down
29851	ICOS	inducible T cell costimulator	-2.493	27.102	Down
22868	FASTKD2	FAST kinase domains 2	-0.895	4.338	Down
151194	METTL21A	methyltransferase 21A, HSPA lysine	-0.603	1.456	Down
22807	IKZF2	IKAROS family zinc finger 2	-1.002	3.763	Down
471	ATIC	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	-0.746	2.75	Down
7520	XRCC5	X-ray repair cross complementing 5	-0.977	5.619	Down
1.01E+08	RPL37A-DT	RPL37A divergent transcript	-1.351	1.494	Down
1.02E+08	LOC101928487	uncharacterized LOC101928487	-1.407	1.742	Down

10109	ARPC2	actin related protein 2/3 complex subunit 2	-0.565	1.858	Down
14	AAMP	angio associated migratory cell protein	-0.488	2.01	Down
9125	CNOT9	CCR4-NOT transcription complex subunit 9	-0.843	8.805	Down
617	BCS1L	BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone	-0.824	2.279	Down
80326	WNT10A	Wnt family member 10A	-1.685	5.237	Down
79840	NHEJ1	non-homologous end joining factor 1	-0.923	2.75	Down
10058	ABCB6	ATP binding cassette subfamily B member 6 (Langereis blood group)	-1.092	2.74	Down
7277	TUBA4A	tubulin alpha 4a	-0.729	4.863	Down
23549	DNPEP	aspartyl aminopeptidase	-1.126	9.465	Down
29926	GMPPA	GDP-mannose pyrophosphorylase A	-0.558	1.89	Down
79586	CHPF	chondroitin polymerizing factor	-1.067	8.817	Down
130612	TMEM198	transmembrane protein 198	-1.313	1.909	Down
130367	SGPP2	sphingosine-1-phosphate phosphatase 2	-1.7	5.59	Down
10056	FARSB	phenylalanyl-tRNA synthetase subunit beta	-1.073	7.092	Down
130340	AP1S3	adaptor related protein complex 1 subunit sigma 3	-2.918	7	Down
57590	WDFY1	WD repeat and FYVE domain containing 1	-0.557	3.544	Down
84236	RHBDD1	rhomboid domain containing 1	-0.653	2.985	Down
3267	AGFG1	ArfGAP with FG repeats 1	-1.108	9.777	Down
6364	CCL20	C-C motif chemokine ligand 20	-3.515	4.128	Down
51719	CAB39	calcium binding protein 39	-0.356	2.039	Down
81618	ITM2C	integral membrane protein 2C	-0.824	1.347	Down
348761	SPATA3-AS1	SPATA3 antisense RNA 1 (head to head)	-5.595	4.638	Down
5707	PSMD1	proteasome 26S subunit, non-ATPase 1	-1.591	49.17	Down
4691	NCL	nucleolin	-0.788	3.072	Down
55355	HJURP	Holliday junction recognition protein	-2.848	2.903	Down
1293	COL6A3	collagen type VI alpha 3 chain	-1.954	3.725	Down
9208	LRRFIP1	LRR binding FLII interacting protein 1	-0.78	7.525	Down
1.01E+08	UBE2F-SCLY	UBE2F-SCLY readthrough (NMD candidate)	-0.661	2.629	Down

140739	UBE2F	ubiquitin conjugating enzyme E2 F (putative)	-0.538	2.011	Down
51540	SCLY	selenocysteine lyase	-0.726	2.014	Down
2817	GPC1	glypican 1	-2.624	3.74	Down
547	KIF1A	kinesin family member 1A	-3.657	3.526	Down
4735	SEPTIN2	septin 2	-0.553	2.782	Down
9855	FARP2	FERM, ARH/RhoGEF and pleckstrin domain protein 2	-0.84	3.198	Down
1841	DTYMK	deoxythymidylate kinase	-1.124	2.907	Down
1.01E+08	BHLHE40-AS1	BHLHE40 antisense RNA 1	-1.161	3.984	Down
8553	BHLHE40	basic helix-loop-helix family member e40	-1.771	7.356	Down
29995	LMCD1	LIM and cysteine rich domains 1	-1.518	2.449	Down
4968	OGG1	8-oxoguanine DNA glycosylase	-0.543	2.16	Down
8536	CAMK1	calcium/calmodulin dependent protein kinase I	-0.824	1.902	Down
10093	ARPC4	actin related protein 2/3 complex subunit 4	-0.505	1.719	Down
1.01E+08	ARPC4-TTLL3	ARPC4-TTLL3 readthrough	-0.458	2.711	Down
285367	RPUSD3	RNA pseudouridine synthase D3	-0.591	1.456	Down
285368	PRRT3	proline rich transmembrane protein 3	-0.581	1.661	Down
3656	IRAK2	interleukin 1 receptor associated kinase 2	-1.524	4.992	Down
6396	SEC13	SEC13 homolog, nuclear pore and COPII coat complex component	-0.87	3.486	Down
3269	HRH1	histamine receptor H1	-3.02	7.102	Down
7324	UBE2E1	ubiquitin conjugating enzyme E2 E1	-0.592	2.053	Down
28512	NKIRAS1	NFKB inhibitor interacting Ras like 1	-0.468	1.317	Down
54918	CMTM6	CKLF like MARVEL transmembrane domain containing 6	-0.776	1.97	Down
51143	DYNC1LI1	dynein cytoplasmic 1 light intermediate chain 1	-0.539	3.699	Down
1233	CCR4	C-C motif chemokine receptor 4	-0.815	1.317	Down
1.05E+08	LOC105377022	replaced by ID 2720	-2.191	3.631	Down
1.08E+08	LOC107986072	uncharacterized LOC107986072	-1.355	1.818	Down
4292	MLH1	mutL homolog 1	-0.314	1.678	Down
9941	EXOG	exo/endonuclease G	-0.824	2.15	Down

64651	CSRNP1	cysteine and serine rich nuclear protein 1	-1.37	10.945	Down
165904	XIRP1	xin actin binding repeat containing 1	-3.172	1.634	Down
1237	CCR8	C-C motif chemokine receptor 8	-2.466	6.566	Down
25994	HIGD1A	HIG1 hypoxia inducible domain family member 1A	-1.406	11.237	Down
55129	ANO10	anoctamin 10	-0.758	1.985	Down
51099	ABHD5	abhydrolase domain containing 5, lysophosphatidic acid acyltransferase	-0.636	2.689	Down
23016	EXOSC7	exosome component 7	-0.813	6.502	Down
23395	LARS2	leucyl-tRNA synthetase 2, mitochondrial	-0.822	3.972	Down
729230	CCR2	C-C motif chemokine receptor 2	-1.747	4.217	Down
1234	CCR5	C-C motif chemokine receptor 5	-1.209	1.721	Down
23276	KLHL18	kelch like family member 18	-0.473	1.513	Down
22907	DHX30	DExH-box helicase 30	-0.505	2.676	Down
4134	MAP4	microtubule associated protein 4	-1.058	2.572	Down
993	CDC25A	cell division cycle 25A	-3.166	7.803	Down
5364	PLXNB1	plexin B1	-1.485	1.905	Down
7384	UQCRC1	ubiquinol-cytochrome c reductase core protein 1	-0.835	3.334	Down
10425	ARIH2	ariadne RBR E3 ubiquitin protein ligase 2	-0.229	1.745	Down
25915	NDUFAF3	NADH:ubiquinone oxidoreductase complex assembly factor 3	-0.864	3.475	Down
387	RHOA	ras homolog family member A	-0.549	1.628	Down
29925	GMPPB	GDP-mannose pyrophosphorylase B	-0.902	4.534	Down
132228	LSMEM2	leucine rich single-pass membrane protein 2	-1.323	5.569	Down
7866	IFRD2	interferon related developmental regulator 2	-1.396	10.873	Down
8372	HYAL3	hyaluronidase 3	-1.268	5.164	Down
8692	HYAL2	hyaluronidase 2	-1.296	4.384	Down
51161	C3orf18	chromosome 3 open reading frame 18	-1.599	4.777	Down
1154	CISH	cytokine inducible SH2 containing protein	-2.931	3.802	Down
7867	MAPKAPK3	MAPK activated protein kinase 3	-1.803	10.524	Down
7873	MANF	mesencephalic astrocyte derived neurotrophic factor	-1.348	5.978	Down

9136	RRP9	ribosomal RNA processing 9, U3 small nucleolar RNA binding protein	-1.303	10.443	Down
95	ACY1	aminoacylase 1	-1.594	5.776	Down
211	ALAS1	5'-aminolevulinate synthase 1	-0.886	4.267	Down
11344	TWF2	twinfilin actin binding protein 2	-0.498	2.046	Down
132160	PPM1M	protein phosphatase, Mg2+/Mn2+ dependent 1M	-0.682	1.803	Down
64943	NT5DC2	5'-nucleotidase domain containing 2	-1.18	2.26	Down
26354	GNL3	G protein nucleolar 3	-0.676	2.966	Down
5580	PRKCD	protein kinase C delta	-0.649	1.68	Down
55802	DCP1A	decapping mRNA 1A	-0.379	1.579	Down
55540	IL17RB	interleukin 17 receptor B	-1.701	3.991	Down
58515	SELENOK	selenoprotein K	-0.953	3.196	Down
201626	PDE12	phosphodiesterase 12	-0.723	3.403	Down
378	ARF4	ADP ribosylation factor 4	-0.919	2.681	Down
80145	THOC7	THO complex subunit 7	-0.711	1.367	Down
9861	PSMD6	proteasome 26S subunit, non-ATPase 6	-1.132	14.575	Down
84541	KBTBD8	kelch repeat and BTB domain containing 8	-1.535	10.64	Down
23150	FRMD4B	FERM domain containing 4B	-2.091	3.911	Down
23429	RYBP	RING1 and YY1 binding protein	-0.618	5.292	Down
151987	PPP4R2	protein phosphatase 4 regulatory subunit 2	-0.595	2.075	Down
1.01E+08	MIR4444-2	microRNA 4444-2	-1.022	2.701	Down
2632	GBE1	1,4-alpha-glucan branching enzyme 1	-0.862	1.625	Down
25978	CHMP2B	charged multivesicular body protein 2B	-0.379	1.743	Down
200894	ARL13B	ADP ribosylation factor like GTPase 13B	-0.836	2.27	Down
84864	RIOX2	ribosomal oxygenase 2	-0.651	3.747	Down
56650	CLDND1	claudin domain containing 1	-1.396	8.091	Down
1371	CPOX	coproporphyrinogen oxidase	-1.206	7.474	Down
1.02E+08	HP09053	uncharacterized LOC101929357	-0.967	2.598	Down
84319	CMSS1	cms1 ribosomal small subunit homolog	-1.192	5.697	Down

56954	NIT2	nitrilase family member 2	-0.473	2.801	Down
10342	TFG	trafficking from ER to golgi regulator	-0.517	2.514	Down
131909	FAM172BP	family with sequence similarity 172 member B, pseudogene	-0.778	2.255	Down
285359	PDCL3P4	PDCL3 pseudogene 4	-0.869	1.96	Down
1.02E+08	LINC01215	long intergenic non-protein coding RNA 1215	-1.544	6.391	Down
55081	IFT57	intraflagellar transport 57	-0.733	2.613	Down
11148	HHLA2	HERV-H LTR-associating 2	-1.986	1.361	Down
57650	CIP2A	cellular inhibitor of PP2A	-1.87	12.27	Down
25945	NECTIN3	nectin cell adhesion molecule 3	-1.094	1.94	Down
79413	ZBED2	zinc finger BED-type containing 2	-6.64	49.36	Down
79669	C3orf52	chromosome 3 open reading frame 52	-1.086	4.277	Down
257144	GCSAM	germinal center associated signaling and motility	-1.031	3.146	Down
4345	CD200	CD200 molecule	-1.536	2.234	Down
80218	NAA50	N-alpha-acetyltransferase 50, NatE catalytic subunit	-0.583	2.041	Down
523	ATP6V1A	ATPase H+ transporting V1 subunit A	-0.492	1.7	Down
152404	IGSF11	immunoglobulin superfamily member 11	-2.55	2.843	Down
8702	B4GALT4	beta-1,4-galactosyltransferase 4	-0.766	2.906	Down
57514	ARHGAP31	Rho GTPase activating protein 31	-1.843	3.721	Down
941	CD80	CD80 molecule	-2.897	2.545	Down
141	ADPRH	ADP-ribosylarginine hydrolase	-1.033	1.593	Down
10063	COX17	cytochrome c oxidase copper chaperone COX17	-1.441	10.885	Down
846	CASR	calcium sensing receptor	-3.131	1.48	Down
131076	MIX23	mitochondrial matrix import factor 23	-1.411	5.152	Down
54625	PARP14	poly(ADP-ribose) polymerase family member 14	-1.098	3.175	Down
10954	PDIA5	protein disulfide isomerase family A member 5	-1.422	5.652	Down
7372	UMPS	uridine monophosphate synthetase	-0.776	3.562	Down
4171	MCM2	minichromosome maintenance complex component 2	-1.277	13.765	Down
1.08E+08	LOC107986126	uncharacterized LOC107986126	-1.284	8.282	Down

8607	RUVBL1	RuvB like AAA ATPase 1	-0.993	8.353	Down
2624	GATA2	GATA binding protein 2	-1.428	3.356	Down
6184	RPN1	ribophorin I	-0.583	2.001	Down
7879	RAB7A	RAB7A, member RAS oncogene family	-0.506	1.401	Down
28976	ACAD9	acyl-CoA dehydrogenase family member 9	-1.074	14.433	Down
57501	CFAP92	cilia and flagella associated protein 92 (putative)	-0.962	4.164	Down
27032	ATP2C1	ATPase secretory pathway Ca2+ transporting 1	-0.669	6.067	Down
11222	MRPL3	mitochondrial ribosomal protein L3	-0.913	3.004	Down
1.05E+08	LOC105374114	uncharacterized LOC105374114	-0.804	1.613	Down
79876	UBA5	ubiquitin like modifier activating enzyme 5	-0.634	6.373	Down
55573	CDV3	CDV3 homolog	-0.455	1.901	Down
58477	SRPRB	SRP receptor subunit beta	-0.651	1.366	Down
5096	PCCB	propionyl-CoA carboxylase subunit beta	-0.711	4.342	Down
55179	FAIM	Fas apoptotic inhibitory molecule	-1.153	3.35	Down
9276	COPB2	COPI coat complex subunit beta 2	-0.487	1.394	Down
483	ATP1B3	ATPase Na+/K+ transporting subunit beta 3	-1.18	6.122	Down
54464	XRN1	5'-3' exoribonuclease 1	-0.476	1.546	Down
51714	SELENOT	selenoprotein T	-0.813	4.142	Down
6478	SIAH2	siah E3 ubiquitin protein ligase 2	-1.053	5.784	Down
29909	GPR171	G protein-coupled receptor 171	-1.267	4.062	Down
9934	P2RY14	purinergic receptor P2Y14	-1.95	2.294	Down
647033	PA2G4P4	proliferation-associated 2G4 pseudogene 4	-0.899	6.269	Down
85476	GFM1	G elongation factor mitochondrial 1	-0.728	3.063	Down
84517	ACTRT3	actin related protein T3	-3.757	6.358	Down
200916	RPL22L1	ribosomal protein L22 like 1	-1.764	11.243	Down
64778	FNDC3B	fibronectin type III domain containing 3B	-0.676	1.561	Down
1.08E+08	LOC107986153		-1.917	2.805	Down
1894	ECT2	epithelial cell transforming 2	-1.103	3.003	Down

86	ACTL6A	actin like 6A	-0.704	2.606	Down
57129	MRPL47	mitochondrial ribosomal protein L47	-1.177	7.112	Down
54165	DCUN1D1	defective in cullin neddylation 1 domain containing 1	-0.493	2.56	Down
1.11E+08	EEF1AKMT4	EEF1A lysine methyltransferase 4	-1.782	7.536	Down
1.11E+08	EEF1AKMT4-ECE2	EEF1AKMT4-ECE2 readthrough	-1.935	6.664	Down
5708	PSMD2	proteasome 26S subunit ubiquitin receptor, non-ATPase 2	-1.119	23.732	Down
1981	EIF4G1	eukaryotic translation initiation factor 4 gamma 1	-0.917	3.612	Down
5437	POLR2H	RNA polymerase II, I and III subunit H	-1.23	9.062	Down
6434	TRA2B	transformer 2 beta homolog	-1.075	8.13	Down
344887	NMRAL2P	NmrA like redox sensor 2, pseudogene	-2.835	1.606	Down
51726	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11	-1.438	15.718	Down
5984	RFC4	replication factor C subunit 4	-0.705	1.679	Down
339929	LPP-AS2	LPP antisense RNA 2	-2.431	2.444	Down
4026	LPP	LIM domain containing preferred translocation partner in lipoma	-1.26	1.672	Down
9076	CLDN1	claudin 1	-3.396	2.505	Down
3556	IL1RAP	interleukin 1 receptor accessory protein	-0.893	3.071	Down
7037	TFRC	transferrin receptor	-1.712	5.074	Down
5130	PCYT1A	phosphate cytidylyltransferase 1A, choline	-0.775	3.741	Down
200933	FBXO45	F-box protein 45	-0.436	1.498	Down
54965	PIGX	phosphatidylinositol glycan anchor biosynthesis class X	-0.98	3.459	Down
84223	IQCG	IQ motif containing G	-1.799	4.957	Down
3954	LETM1	leucine zipper and EF-hand containing transmembrane protein 1	-0.685	3.096	Down
401115	C4orf48	chromosome 4 open reading frame 48	-0.929	1.789	Down
79155	TNIP2	TNFAIP3 interacting protein 2	-0.912	6.615	Down
6452	SH3BP2	SH3 domain binding protein 2	-0.815	1.53	Down
10227	MFSD10	major facilitator superfamily domain containing 10	-0.44	1.52	Down
8602	NOP14	NOP14 nucleolar protein	-0.73	1.675	Down
80273	GRPEL1	GrpE like 1, mitochondrial	-0.965	6.685	Down

8310	ACOX3	acyl-CoA oxidase 3, pristanoyl	-0.729	3.055	Down
9948	WDR1	WD repeat domain 1	-0.876	7.328	Down
952	CD38	CD38 molecule	-2.15	7.143	Down
51056	LAP3	leucine aminopeptidase 3	-0.848	1.445	Down
1665	DHX15	DEAH-box helicase 15	-0.85	6.955	Down
55300	PI4K2B	phosphatidylinositol 4-kinase type 2 beta	-0.748	3.361	Down
3516	RBPJ	recombination signal binding protein for immunoglobulin kappa J region	-0.845	2.707	Down
55276	PGM2	phosphoglucomutase 2	-0.696	4.139	Down
23216	TBC1D1	TBC1 domain family member 1	-0.771	3.174	Down
1.05E+08	LOC105374407		-0.884	1.493	Down
80008	TMEM156	transmembrane protein 156	-0.686	1.943	Down
51088	KLHL5	kelch like family member 5	-0.868	2.883	Down
55161	TMEM33	transmembrane protein 33	-0.466	1.556	Down
152519	NIPAL1	NIPA like domain containing 1	-1.729	2.959	Down
6443	SGCB	sarcoglycan beta	-0.656	3.366	Down
152579	SCFD2	sec1 family domain containing 2	-1.424	11.611	Down
55858	TMEM165	transmembrane protein 165	-1.14	8.627	Down
10606	PAICS	phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthase	-1.204	4.635	Down
6731	SRP72	signal recognition particle 72	-0.36	1.548	Down
84525	HOPX	HOP homeobox	-1.055	1.31	Down
55236	UBA6	ubiquitin like modifier activating enzyme 6	-0.511	3.685	Down
92597	MOB1B	MOB kinase activator 1B	-0.523	1.589	Down
441024	MTHFD2L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2 like	-0.832	1.838	Down
419	ART3	ADP-ribosyltransferase 3 (inactive)	-5.555	3.475	Down
3627	CXCL10	C-X-C motif chemokine ligand 10	-4.389	4.349	Down
6373	CXCL11	C-X-C motif chemokine ligand 11	-4.228	4.946	Down
55752	SEPTIN11	septin 11	-1.246	14.206	Down

10563	CXCL13	C-X-C motif chemokine ligand 13	-2.976	2.061	Down
56978	PRDM8	PR/SET domain 8	-1.158	2.397	Down
3184	HNRNPD	heterogeneous nuclear ribonucleoprotein D	-0.689	3.521	Down
9987	HNRNPDL	heterogeneous nuclear ribonucleoprotein D like	-0.743	4.195	Down
51138	COPS4	COP9 signalosome subunit 4	-0.507	1.419	Down
10855	HPSE	heparanase	-0.35	1.919	Down
266812	NAP1L5	nucleosome assembly protein 1 like 5	-0.785	2.272	Down
10098	TSPAN5	tetraspanin 5	-0.762	3.21	Down
1977	EIF4E	eukaryotic translation initiation factor 4E	-0.696	2.521	Down
93587	TRMT10A	tRNA methyltransferase 10A	-0.466	1.474	Down
27071	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-0.827	1.306	Down
3015	H2AZ1	H2A.Z variant histone 1	-0.595	2.766	Down
64116	SLC39A8	solute carrier family 39 member 8	-1.172	3.534	Down
4790	NFKB1	nuclear factor kappa B subunit 1	-1.428	6.678	Down
1.03E+08	LOC102723704	uncharacterized LOC102723704	-0.529	2.172	Down
7323	UBE2D3	ubiquitin conjugating enzyme E2 D3	-0.455	1.423	Down
79807	GSTCD	glutathione S-transferase C-terminal domain containing	-0.555	1.671	Down
54433	GAR1	GAR1 ribonucleoprotein	-1.237	6.853	Down
79071	ELOVL6	ELOVL fatty acid elongase 6	-2.6	9.559	Down
1.08E+08	LOC107986303		-1.659	1.343	Down
132720	FAM241A	family with sequence similarity 241 member A	-1.632	3.984	Down
92610	TIFA	TRAF interacting protein with forkhead associated domain	-0.948	2.826	Down
817	CAMK2D	calcium/calmodulin dependent protein kinase II delta	-1.194	5.537	Down
9871	SEC24D	SEC24 homolog D, COPII coat complex component	-0.589	2.006	Down
79931	TNIP3	TNFAIP3 interacting protein 3	-3.182	7.106	Down
5393	EXOSC9	exosome component 9	-0.464	2.772	Down
59067	IL21	interleukin 21	-3.152	5.159	Down
1.01E+08	IL21-AS1	IL21 antisense RNA 1	-1.643	1.401	Down

55132	LARP1B	La ribonucleoprotein 1B	-0.715	3.332	Down
25819	NOCT	nocturnin	-2.049	5.113	Down
80155	NAA15	N-alpha-acetyltransferase 15, NatA auxiliary subunit	-1.024	13.9	Down
3600	IL15	interleukin 15	-1.293	2.3	Down
10393	ANAPC10	anaphase promoting complex subunit 10	-0.578	1.706	Down
6059	ABCE1	ATP binding cassette subfamily E member 1	-0.809	3.435	Down
54726	OTUD4	OTU deubiquitinase 4	-0.601	2.676	Down
4086	SMAD1	SMAD family member 1	-0.783	1.34	Down
11157	LSM6	LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.566	1.479	Down
84068	SLC10A7	solute carrier family 10 member 7	-0.501	2.074	Down
1E+08	LOC100419170	toll like receptor 2 pseudogene	-2.713	1.524	Down
5356	PLRG1	pleiotropic regulator 1	-0.667	2.993	Down
201725	C4orf46	chromosome 4 open reading frame 46	-1.557	14.377	Down
5481	PPID	peptidylprolyl isomerase D	-0.453	2.369	Down
55319	TMA16	translation machinery associated 16 homolog	-0.892	4.212	Down
2713	GK3	glycerol kinase 3	-1.684	1.847	Down
6307	MSMO1	methylsterol monooxygenase 1	-1.188	5.671	Down
9848	MFAP3L	microfibril associated protein 3 like	-0.866	1.643	Down
8819	SAP30	Sin3A associated protein 30	-0.559	1.524	Down
201965	RWDD4	RWD domain containing 4	-0.393	2.032	Down
1.05E+08	LINC02365	long intergenic non-protein coding RNA 2365	-3.19	2.512	Down
836	CASP3	caspase 3	-0.666	2.057	Down
79682	CENPU	centromere protein U	-1.48	6.932	Down
731424	MIR3945HG	MIR3945 host gene	-2.034	1.336	Down
9319	TRIP13	thyroid hormone receptor interactor 13	-2.158	10.056	Down
7015	TERT	telomerase reverse transcriptase	-2.587	2.876	Down
4726	NDUFS6	NADH:ubiquinone oxidoreductase subunit S6	-0.842	4.156	Down
54888	NSUN2	NOP2/Sun RNA methyltransferase 2	-0.629	6.19	Down

79072	FASTKD3	FAST kinase domains 3	-0.406	1.669	Down
134145	ATPSCKMT	ATP synthase c subunit lysine N-methyltransferase	-0.888	2.883	Down
22948	CCT5	chaperonin containing TCP1 subunit 5	-1.498	13.575	Down
651746	ANKRD33B	ankyrin repeat domain 33B	-1.474	1.708	Down
1.07E+08	SNORA105A	small nucleolar RNA, H/ACA box 105A	-1.194	5.796	Down
55322	C5orf22	chromosome 5 open reading frame 22	-0.373	1.83	Down
10923	SUB1	SUB1 regulator of transcription	-0.809	2.222	Down
6897	TARS1	threonyl-tRNA synthetase 1	-1.766	2.234	Down
55299	BRIX1	biogenesis of ribosomes BRX1	-0.897	6.667	Down
5734	PTGER4	prostaglandin E receptor 4	-1.697	21.737	Down
5019	OXCT1	3-oxoacid CoA-transferase 1	-0.537	3.419	Down
3157	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1	-1.82	14.929	Down
10884	MRPS30	mitochondrial ribosomal protein S30	-0.265	1.369	Down
3672	ITGA1	integrin subunit alpha 1	-1.132	1.567	Down
3001	GZMA	granzyme A	-1.281	1.716	Down
23517	MTREX	Mtr4 exosome RNA helicase	-0.725	4.098	Down
8611	PLPP1	phospholipid phosphatase 1	-1.269	4.463	Down
153129	SLC38A9	solute carrier family 38 member 9	-0.494	1.853	Down
166968	MIER3	MIER family member 3	-0.449	2.561	Down
79993	ELOVL7	ELOVL fatty acid elongase 7	-2.137	3.056	Down
91942	NDUFAF2	NADH:ubiquinone oxidoreductase complex assembly factor 2	-0.674	1.806	Down
643155	SMIM15	small integral membrane protein 15	-0.666	4.606	Down
3796	KIF2A	kinesin family member 2A	-0.425	1.479	Down
51194	IPO11	importin 11	-1.068	6.209	Down
1.01E+08	IPO11-LRRC70	IPO11-LRRC70 readthrough	-0.821	2.707	Down
10283	CWC27	CWC27 spliceosome associated cyclophilin	-0.716	4.168	Down
57486	NLN	neurolysin	-1.542	8.004	Down
891	CCNB1	cyclin B1	-0.951	2.602	Down

92259	MRPS36	mitochondrial ribosomal protein S36	-0.585	1.785	Down
1022	CDK7	cyclin dependent kinase 7	-0.892	9.887	Down
1.02E+08	AK6	adenylate kinase 6	-1.044	6.037	Down
728340	GTF2H2C	GTF2H2 family member C	-0.931	5.008	Down
728492	SERF1B	small EDRK-rich factor 1B	-0.495	1.31	Down
6607	SMN2	survival of motor neuron 2, centromeric	-0.796	1.385	Down
653238	GTF2H2B	general transcription factor IIH subunit 2B (pseudogene)	-0.817	5.818	Down
8293	SERF1A	small EDRK-rich factor 1A	-0.505	1.321	Down
6606	SMN1	survival of motor neuron 1, telomeric	-0.778	1.52	Down
2966	GTF2H2	general transcription factor IIH subunit 2	-0.97	6.471	Down
64087	MCCC2	methylcrotonyl-CoA carboxylase subunit 2	-1.115	6.652	Down
84135	UTP15	UTP15 small subunit processome component	-0.912	5.779	Down
26049	FAM169A	family with sequence similarity 169 member A	-0.514	2.446	Down
3156	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase	-0.911	12.262	Down
8546	AP3B1	adaptor related protein complex 3 subunit beta 1	-0.376	2.539	Down
411	ARSB	arylsulfatase B	-1.342	2.947	Down
9456	HOMER1	homer scaffold protein 1	-1.375	6.29	Down
644936	LOC644936	actin beta pseudogene	-1.472	2.216	Down
441089	CRSP8P	mediator complex subunit 27 pseudogene	-1.051	3.539	Down
10622	POLR3G	RNA polymerase III subunit G	-0.966	3.276	Down
116068	LYSMD3	LysM domain containing 3	-0.506	1.514	Down
22936	ELL2	elongation factor for RNA polymerase II 2	-1.941	22.957	Down
55781	RIOK2	RIO kinase 2	-0.425	1.736	Down
7903	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	-0.677	1.692	Down
1.08E+08	LOC107986437	uncharacterized LOC107986437	-1.29	2.187	Down
134430	WDR36	WD repeat domain 36	-0.696	2.853	Down
6728	SRP19	signal recognition particle 19	-0.531	1.49	Down
51397	COMMD10	COMM domain containing 10	-0.595	1.422	Down

25816	TNFAIP8	TNF alpha induced protein 8	-0.653	3.237	Down
153443	SRFBP1	serum response factor binding protein 1	-0.883	8.044	Down
1456	CSNK1G3	casein kinase 1 gamma 3	-0.735	8.623	Down
51808	PHAX	phosphorylated adaptor for RNA export	-0.439	1.584	Down
115123	MARCHF3	membrane associated ring-CH-type finger 3	-1.344	2.446	Down
1.05E+08	LOC105379174	uncharacterized LOC105379174	-4.972	3.774	Down
3562	IL3	interleukin 3	-5.924	10.18	Down
1437	CSF2	colony stimulating factor 2	-6.152	9.65	Down
8974	P4HA2	prolyl 4-hydroxylase subunit alpha 2	-2.092	3.014	Down
3659	IRF1	interferon regulatory factor 1	-1.397	3.955	Down
3567	IL5	interleukin 5	-6.172	4.231	Down
3596	IL13	interleukin 13	-8.955	8.555	Down
3565	IL4	interleukin 4	-5.15	6.839	Down
1.05E+08	LOC105379176	uncharacterized LOC105379176	-4.645	4.807	Down
645121	CCNI2	cyclin I family member 2	-1.001	3.103	Down
23176	SEPTIN8	septin 8	-1.647	9.505	Down
2661	GDF9	growth differentiation factor 9	-1.072	2.99	Down
27089	UQCRQ	ubiquinol-cytochrome c reductase complex III subunit VII	-1.207	4.252	Down
3308	HSPA4	heat shock protein family A (Hsp70) member 4	-0.965	13.347	Down
7416	VDAC1	voltage dependent anion channel 1	-1.615	13.596	Down
5515	PPP2CA	protein phosphatase 2 catalytic subunit alpha	-0.603	2.522	Down
1.01E+08	MIR3661	microRNA 3661	-0.493	2.441	Down
51128	SAR1B	secretion associated Ras related GTPase 1B	-0.348	1.564	Down
10802	SEC24A	SEC24 homolog A, COPII coat complex component	-0.781	5.346	Down
3578	IL9	interleukin 9	-8.501	5.857	Down
51308	REEP2	receptor accessory protein 2	-1.609	1.513	Down
1958	EGR1	early growth response 1	-4.828	31.412	Down
2107	ETF1	eukaryotic translation termination factor 1	-1.229	7.652	Down

3313	HSPA9	heat shock protein family A (Hsp70) member 9	-1.215	15.968	Down
1.05E+08	LOC105379193	uncharacterized LOC105379193	-1.232	13.2	Down
9782	MATR3	matrin 3	-0.237	1.556	Down
51237	MZB1	marginal zone B and B1 cell specific protein	-2.66	2.754	Down
389333	PROB1	proline rich basic protein 1	-2.757	10.988	Down
202051	SPATA24	spermatogenesis associated 24	-1.575	3.928	Down
202052	DNAJC18	DnaJ heat shock protein family (Hsp40) member C18	-1.551	8.531	Down
641700	ECSCR	endothelial cell surface expressed chemotaxis and apoptosis regulator	-4.299	3.517	Down
1839	HBEGF	heparin binding EGF like growth factor	-2.619	3.349	Down
10011	SRA1	steroid receptor RNA activator 1	-1.317	5.978	Down
113829	SLC35A4	solute carrier family 35 member A4	-0.52	1.704	Down
3035	HARS1	histidyl-tRNA synthetase 1	-0.689	4.225	Down
10007	GNPDA1	glucosamine-6-phosphate deaminase 1	-0.476	1.776	Down
81848	SPRY4	sprouty RTK signaling antagonist 4	-6.105	5.093	Down
51520	LARS1	leucyl-tRNA synthetase 1	-0.712	4.404	Down
10318	TNIP1	TNFAIP3 interacting protein 1	-0.789	2.918	Down
475	ATOX1	antioxidant 1 copper chaperone	-0.757	1.95	Down
1.01E+08	LOC100652758	uncharacterized LOC100652758	-0.705	1.907	Down
10146	G3BP1	G3BP stress granule assembly factor 1	-0.957	3.75	Down
55568	GALNT10	polypeptide N-acetylgalactosaminyltransferase 10	-0.578	2.733	Down
1.08E+08	LOC107986465	uncharacterized LOC107986465	-1.419	2.633	Down
25929	GEMIN5	gem nuclear organelle associated protein 5	-0.562	2.169	Down
29093	MRPL22	mitochondrial ribosomal protein L22	-0.838	3.175	Down
408263	FNDC9	fibronectin type III domain containing 9	-3.449	2.361	Down
348938	NIPAL4	NIPA like domain containing 4	-3.215	3.474	Down
153830	RNF145	ring finger protein 145	-0.46	1.585	Down
3593	IL12B	interleukin 12B	-6.056	2.02	Down
7265	TTC1	tetratricopeptide repeat domain 1	-0.617	1.512	Down

9232	PTTG1	PTTG1 regulator of sister chromatid separation, securin	-1.194	6.009	Down
1.07E+08	MIR3142HG	MIR3142 host gene	-2.444	7.095	Down
406938	MIR146A	microRNA 146a	-2.866	2.009	Down
3161	HMMR	hyaluronan mediated motility receptor	-2.628	3.118	Down
27430	MAT2B	methionine adenosyltransferase 2B	-0.506	1.558	Down
5917	RARS1	arginyl-tRNA synthetase 1	-1.013	7.304	Down
79646	PANK3	pantothenate kinase 3	-0.484	1.446	Down
133874	C5orf58	chromosome 5 open reading frame 58	-1.026	2.886	Down
3937	LCP2	lymphocyte cytosolic protein 2	-1.114	3.859	Down
1E+08	LOC100128059	uncharacterized LOC100128059	-4.703	5.872	Down
51121	RPL26L1	ribosomal protein L26 like 1	-1.107	3.429	Down
662	BNIP1	BCL2 interacting protein 1	-1.122	4.1	Down
80315	CPEB4	cytoplasmic polyadenylation element binding protein 4	-0.571	4.36	Down
94081	SFXN1	sideroflexin 1	-0.493	1.313	Down
3274	HRH2	histamine receptor H2	-2.094	8.916	Down
51491	NOP16	NOP16 nucleolar protein	-1.116	6.128	Down
1212	CLTB	clathrin light chain B	-0.376	1.316	Down
23197	FAF2	Fas associated factor family member 2	-0.586	3.99	Down
114787	GPRIN1	G protein regulated inducer of neurite outgrowth 1	-1.802	3.209	Down
26262	TSPAN17	tetraspanin 17	-1.13	14.625	Down
27166	PRELID1	PRELI domain containing 1	-0.956	3.46	Down
83463	MXD3	MAX dimerization protein 3	-0.946	3.534	Down
2161	F12	coagulation factor XII	-3.677	4.638	Down
80758	PRR7	proline rich 7, synaptic	-0.816	1.87	Down
1627	DBN1	drebrin 1	-2.411	6.457	Down
9260	PDLIM7	PDZ and LIM domain 7	-0.883	1.589	Down
51428	DDX41	DEAD-box helicase 41	-0.478	1.82	Down
54732	TMED9	transmembrane p24 trafficking protein 9	-0.613	2.718	Down

23138	N4BP3	NEDD4 binding protein 3	-1.791	7.905	Down
64777	RMND5B	required for meiotic nuclear division 5 homolog B	-0.655	3.475	Down
55651	NHP2	NHP2 ribonucleoprotein	-1.35	5.603	Down
3182	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	-1.237	13.306	Down
85007	PHYKPL	5-phosphohydroxy-L-lysine phospho-lyase	-0.323	1.577	Down
8878	SQSTM1	sequestosome 1	-0.816	4.088	Down
3662	IRF4	interferon regulatory factor 4	-3.962	5.751	Down
55770	EXOC2	exocyst complex component 2	-0.437	2.447	Down
135458	HUS1B	HUS1 checkpoint clamp component B	-2.465	2.276	Down
2762	GMDS	GDP-mannose 4,6-dehydratase	-0.598	2.813	Down
4835	NQO2	N-ribosyldihydronicotinamide:quinone reductase 2	-0.642	1.912	Down
7280	TUBB2A	tubulin beta 2A class IIa	-2.143	6.84	Down
347733	TUBB2B	tubulin beta 2B class IIb	-1.856	5.325	Down
221749	PXDC1	PX domain containing 1	-1.445	1.774	Down
10799	RPP40	ribonuclease P/MRP subunit p40	-1.331	2.656	Down
10667	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	-0.718	1.641	Down
285782	CAGE1	cancer antigen 1	-1.863	1.372	Down
83732	RIOK1	RIO kinase 1	-1.086	7.279	Down
654	BMP6	bone morphogenetic protein 6	-0.884	1.881	Down
1.01E+08	BLOC1S5-TXNDC5	BLOC1S5-TXNDC5 readthrough (NMD candidate)	-0.919	5.462	Down
81567	TXNDC5	thioredoxin domain containing 5	-0.999	6.832	Down
9521	EEF1E1	eukaryotic translation elongation factor 1 epsilon 1	-1.169	3.982	Down
55003	PAK1IP1	PAK1 interacting protein 1	-1.328	5.164	Down
221710	SMIM13	small integral membrane protein 13	-0.722	1.686	Down
4739	NEDD9	neural precursor cell expressed, developmentally down-regulated 9	-1.184	6.348	Down
1.12E+08	LOC112267953		-0.91	1.977	Down
3096	HIVEP1	HIVEP zinc finger 1	-0.822	1.426	Down
51406	NOL7	nucleolar protein 7	-0.751	4.959	Down

63933	MCUR1	mitochondrial calcium uniporter regulator 1	-0.445	2.804	Down
9308	CD83	CD83 molecule	-1.692	2.149	Down
6310	ATXN1	ataxin 1	-1.048	2.617	Down
1.02E+08	ATXN1-AS1	ATXN1 antisense RNA 1	-1.124	2.655	Down
9972	NUP153	nucleoporin 153	-0.657	2.498	Down
1.05E+08	NUP153-AS1	NUP153 antisense RNA 1	-0.964	5.991	Down
1871	E2F3	E2F transcription factor 3	-0.601	1.66	Down
54901	CDKAL1	CDK5 regulatory subunit associated protein 1 like 1	-0.801	5.043	Down
1.08E+08	LOC107986578	uncharacterized LOC107986578	-0.95	1.869	Down
57380	MRS2	magnesium transporter MRS2	-0.401	1.375	Down
51053	GMNN	geminin DNA replication inhibitor	-1.195	4.688	Down
8418	CMAHP	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene	-1.475	5.128	Down
10385	BTN2A2	butyrophilin subfamily 2 member A2	-1.372	4.856	Down
64288	ZSCAN31	zinc finger and SCAN domain containing 31	-0.861	1.347	Down
3134	HLA-F	major histocompatibility complex, class I, F	-0.57	2.772	Down
6992	PPP1R11	protein phosphatase 1 regulatory inhibitor subunit 11	-0.621	2.066	Down
80742	PRR3	proline rich 3	-0.42	1.852	Down
23	ABCF1	ATP binding cassette subfamily F member 1	-0.892	2.635	Down
203068	TUBB	tubulin beta class I	-1.393	24.131	Down
10211	FLOT1	flotillin 1	-0.642	2.13	Down
1.05E+08	IER3-AS1	IER3 antisense RNA 1	-2.933	7.341	Down
8870	IER3	immediate early response 3	-3.062	6.41	Down
2968	GTF2H4	general transcription factor IIH subunit 4	-0.846	6.234	Down
4049	LTA	lymphotoxin alpha	-4.295	29.731	Down
7124	TNF	tumor necrosis factor	-4.121	6.169	Down
4050	LTB	lymphotoxin beta	-0.665	1.915	Down
259197	NCR3	natural cytotoxicity triggering receptor 3	-2.357	3.536	Down
7917	BAG6	BAG cochaperone 6	-0.549	4.321	Down

1460	CSNK2B	casein kinase 2 beta	-0.568	1.832	Down
1192	CLIC1	chloride intracellular channel 1	-1.21	9.14	Down
7407	VARS1	valyl-tRNA synthetase 1	-1.476	14.521	Down
57819	LSM2	LSM2 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.769	1.925	Down
629	CFB	complement factor B	-3.446	2.319	Down
7936	NELFE	negative elongation factor complex member E	-0.6	1.661	Down
6891	TAP2	transporter 2, ATP binding cassette subfamily B member	-1.614	17.623	Down
5696	PSMB8	proteasome 20S subunit beta 8	-0.943	3.251	Down
1.01E+08	PSMB8-AS1	PSMB8 antisense RNA 1 (head to head)	-0.816	3.193	Down
6890	TAP1	transporter 1, ATP binding cassette subfamily B member	-1.933	13.4	Down
5698	PSMB9	proteasome 20S subunit beta 9	-1.154	7.108	Down
6015	RING1	ring finger protein 1	-0.371	1.522	Down
9277	WDR46	WD repeat domain 46	-1.012	6.981	Down
10471	PFDN6	prefoldin subunit 6	-1.05	5.093	Down
6892	TAPBP	TAP binding protein	-1.114	7.057	Down
578	BAK1	BCL2 antagonist/killer 1	-0.925	3.408	Down
84300	UQCC2	ubiquinol-cytochrome c reductase complex assembly factor 2	-0.916	1.88	Down
3159	HMGA1	high mobility group AT-hook 1	-0.59	1.585	Down
6631	SNRPC	small nuclear ribonucleoprotein polypeptide C	-0.738	2.268	Down
6732	SRPK1	SRSF protein kinase 1	-0.849	10.374	Down
389384	BNIP5	BCL2 interacting protein 5	-4.117	2.239	Down
51513	ETV7	ETS variant transcription factor 7	-2.701	6.709	Down
222658	KCTD20	potassium channel tetramerization domain containing 20	-0.44	2.387	Down
6428	SRSF3	serine and arginine rich splicing factor 3	-1.388	13.438	Down
1026	CDKN1A	cyclin dependent kinase inhibitor 1A	-1.45	2.361	Down
51645	PPIL1	peptidylprolyl isomerase like 1	-1.271	8.262	Down
221468	TMEM217	transmembrane protein 217	-0.881	2.012	Down
55633	TBC1D22B	TBC1 domain family member 22B	-0.331	1.427	Down

23070	CMTR1	cap methyltransferase 1	-0.61	2.238	Down
154467	CCDC167	coiled-coil domain containing 167	-0.981	2.89	Down
2739	GLO1	glyoxalase I	-0.601	1.599	Down
8645	KCNK5	potassium two pore domain channel subfamily K member 5	-3.159	17.204	Down
57497	LRFN2	leucine rich repeat and fibronectin type III domain containing 2	-3.604	1.913	Down
79865	TREML2	triggering receptor expressed on myeloid cells like 2	-2.902	6.994	Down
116113	FOXP4	forkhead box P4	-1.32	2.991	Down
1E+08	TOMM6	translocase of outer mitochondrial membrane 6	-0.623	1.37	Down
25862	USP49	ubiquitin specific peptidase 49	-0.879	4.467	Down
9477	MED20	mediator complex subunit 20	-1.409	9.912	Down
705	BYSL	bystin like	-2.825	23.371	Down
55173	MRPS10	mitochondrial ribosomal protein S10	-0.53	1.445	Down
88745	RRP36	ribosomal RNA processing 36	-0.661	4.008	Down
6722	SRF	serum response factor	-1.046	5.59	Down
10591	DNPH1	2'-deoxynucleoside 5'-phosphate N-hydrolase 1	-0.978	1.945	Down
84630	TTBK1	tau tubulin kinase 1	-4.996	3.245	Down
93643	TJAP1	tight junction associated protein 1	-0.403	1.455	Down
9533	POLR1C	RNA polymerase I and III subunit C	-0.919	4.166	Down
57510	XPO5	exportin 5	-1.068	8.199	Down
221421	RSPH9	radial spoke head component 9	-0.674	1.922	Down
55168	MRPS18A	mitochondrial ribosomal protein S18A	-0.733	2.492	Down
7422	VEGFA	vascular endothelial growth factor A	-1.246	1.797	Down
64928	MRPL14	mitochondrial ribosomal protein L14	-1.375	4.824	Down
55362	TMEM63B	transmembrane protein 63B	-1.012	2.233	Down
2030	SLC29A1	solute carrier family 29 member 1 (Augustine blood group)	-2.955	20.333	Down
3326	HSP90AB1	heat shock protein 90 alpha family class B member 1	-1.663	17.204	Down
347734	SLC35B2	solute carrier family 35 member B2	-0.617	1.977	Down
4794	NFKBIE	NFKB inhibitor epsilon	-1.469	5.236	Down

988	CDC5L	cell division cycle 5 like	-0.374	2.187	Down
8464	SUPT3H	SPT3 homolog, SAGA and STAGA complex component	-0.501	1.387	Down
22875	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4	-0.54	1.802	Down
10231	RCAN2	regulator of calcineurin 2	-2.26	1.444	Down
23607	CD2AP	CD2 associated protein	-0.43	1.948	Down
3605	IL17A	interleukin 17A	-5.664	3.663	Down
112744	IL17F	interleukin 17F	-8.569	3.401	Down
2941	GSTA4	glutathione S-transferase alpha 4	-2.287	2.806	Down
9532	BAG2	BAG cochaperone 2	-0.696	2.26	Down
5558	PRIM2	DNA primase subunit 2	-0.687	2.57	Down
7803	PTP4A1	protein tyrosine phosphatase 4A1	-0.455	1.703	Down
115004	CGAS	cyclic GMP-AMP synthase	-1.696	3.389	Down
1347	COX7A2	cytochrome c oxidase subunit 7A2	-0.655	1.383	Down
7272	TTK	TTK protein kinase	-1.441	2.281	Down
51167	CYB5R4	cytochrome b5 reductase 4	-0.351	2.345	Down
10492	SYNCRIP	synaptotagmin binding cytoplasmic RNA interacting protein	-0.879	3.833	Down
29078	NDUFAF4	NADH:ubiquinone oxidoreductase complex assembly factor 4	-0.929	2.515	Down
51805	COQ3	coenzyme Q3, methyltransferase	-0.998	4.981	Down
892	CCNC	cyclin C	-0.791	2.421	Down
10973	ASCC3	activating signal cointegrator 1 complex subunit 3	-0.921	5.914	Down
639	PRDM1	PR/SET domain 1	-1.252	2.927	Down
57673	BEND3	BEN domain containing 3	-1.398	5.734	Down
6610	SMPD2	sphingomyelin phosphodiesterase 2	-0.668	2.517	Down
262	AMD1	adenosylmethionine decarboxylase 1	-1.227	10.396	Down
112495	GTF3C6	general transcription factor IIIC subunit 6	-1.214	10.794	Down
84154	RPF2	ribosome production factor 2 homolog	-1.119	2.662	Down
3066	HDAC2	histone deacetylase 2	-0.702	3.186	Down
728402	TPI1P3	triosephosphate isomerase 1 pseudogene 3	-1.451	1.637	Down

221302	ZUP1	zinc finger containing ubiquitin peptidase 1	-0.689	2.563	Down
116150	NUS1	NUS1 dehydrodolichyl diphosphate synthase subunit	-0.932	4.723	Down
4121	MAN1A1	mannosidase alpha class 1A member 1	-0.634	2.833	Down
387103	CENPW	centromere protein W	-1.572	3.07	Down
55862	ECHDC1	ethylmalonyl-CoA decarboxylase 1	-0.742	5.51	Down
114801	TMEM200A	transmembrane protein 200A	-2.055	2.453	Down
2037	EPB41L2	erythrocyte membrane protein band 4.1 like 2	-1.035	2.825	Down
5169	ENPP3	ectonucleotide pyrophosphatase/phosphodiesterase 3	-1.73	1.38	Down
6446	SGK1	serum/glucocorticoid regulated kinase 1	-2.964	16.177	Down
10767	HBS1L	HBS1 like translational GTPase	-0.731	4.302	Down
4602	MYB	MYB proto-oncogene, transcription factor	-1.76	4.074	Down
1.05E+08	LOC105378011	uncharacterized LOC105378011	-1.752	2.032	Down
7128	TNFAIP3	TNF alpha induced protein 3	-0.942	2.448	Down
1.08E+08	HIVEP2-DT	HIVEP2 divergent transcript	-1.131	3.042	Down
84946	LTV1	LTV1 ribosome biogenesis factor	-0.82	5.119	Down
5325	PLAGL1	PLAG1 like zinc finger 1	-1.218	4.564	Down
8676	STX11	syntaxin 11	-1.768	3.219	Down
1.05E+08	UST-AS2	UST antisense RNA 2	-4.703	9.309	Down
1.05E+08	LOC105378046		-2.614	1.652	Down
340152	ZC3H12D	zinc finger CCCH-type containing 12D	-2.429	1.921	Down
348995	NUP43	nucleoporin 43	-0.463	2.202	Down
80328	ULBP2	UL16 binding protein 2	-3.944	8.565	Down
80329	ULBP1	UL16 binding protein 1	-4.181	3.954	Down
646024	RAET1K	retinoic acid early transcript 1K pseudogene	-2.604	3.357	Down
25902	MTHFD1L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like	-1.519	3.94	Down
54516	MTRF1L	mitochondrial translation release factor 1 like	-0.7	2.281	Down
154043	CNKSR3	CNKSR family member 3	-2.322	2.188	Down
26230	TIAM2	TIAM Rac1 associated GEF 2	-1.518	3.569	Down

51106	TFB1M	transcription factor B1, mitochondrial	-0.539	1.546	Down
404672	GTF2H5	general transcription factor IIH subunit 5	-0.425	1.354	Down
6993	DYNLT1	dynein light chain Tctex-type 1	-1.006	1.888	Down
7430	EZR	ezrin	-0.642	2.31	Down
1.01E+08	EZR-AS1	EZR antisense RNA 1	-0.941	2.299	Down
1.05E+08	TAGAP-AS1	TAGAP antisense RNA 1	-0.821	2.329	Down
117289	TAGAP	T cell activation RhoGTPase activating protein	-0.899	2.493	Down
39	ACAT2	acetyl-CoA acetyltransferase 2	-1.031	4.799	Down
6950	TCP1	t-complex 1	-1.091	12	Down
113402	SFT2D1	SFT2 domain containing 1	-0.608	1.537	Down
11116	CEP43	centrosomal protein 43	-0.805	2.728	Down
1235	CCR6	C-C motif chemokine receptor 6	-0.937	1.546	Down
5689	PSMB1	proteasome 20S subunit beta 1	-1.16	6.696	Down
1.02E+08	PRKAR1B-AS1	PRKAR1B antisense RNA 1	-1.726	6.946	Down
54919	DNAAF5	dynein axonemal assembly factor 5	-0.546	2.599	Down
11033	ADAP1	ArfGAP with dual PH domains 1	-1.607	10.43	Down
84310	C7orf50	chromosome 7 open reading frame 50	-0.775	1.361	Down
84262	PSMG3	proteasome assembly chaperone 3	-0.643	1.762	Down
8662	EIF3B	eukaryotic translation initiation factor 3 subunit B	-0.695	3.615	Down
60	ACTB	actin beta	-1.485	6.827	Down
51622	CCZ1	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated	-0.647	2.424	Down
1.08E+08	LOC107986694		-0.692	2.658	Down
7965	AIMP2	aminoacyl tRNA synthetase complex interacting multifunctional protein 2	-1.232	8.885	Down
221960	CCZ1B	CCZ1 homolog B, vacuolar protein trafficking and biogenesis associated	-0.685	12.662	Down
1.08E+08	LOC107986696		-0.708	2.855	Down
56913	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1	-0.523	1.398	Down
54468	MIOS	meiosis regulator for oocyte development	-0.943	4.028	Down
79150	MGC4859	uncharacterized LOC79150	-1.065	3.091	Down

196	AHR	aryl hydrocarbon receptor	-1.276	3.432	Down
7291	TWIST1	twist family bHLH transcription factor 1	-2.259	2.215	Down
221830	POLR1F	RNA polymerase I subunit F	-0.974	6.2	Down
3569	IL6	interleukin 6	-4.917	1.711	Down
84668	HYCC1	hyccin PI4KA lipid kinase complex subunit 1	-0.83	2.268	Down
115416	MALSU1	mitochondrial assembly of ribosomal large subunit 1	-0.589	1.704	Down
29896	TRA2A	transformer 2 alpha homolog	-0.467	1.623	Down
54205	CYCS	cytochrome c, somatic	-1.664	17.204	Down
9603	NFE2L3	NFE2 like bZIP transcription factor 3	-2.591	24.361	Down
3181	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	-1.277	13.797	Down
29887	SNX10	sorting nexin 10	-2.5	13.625	Down
1.05E+08	SNX10-AS1	SNX10 antisense RNA 1	-2.438	9.133	Down
2617	GARS1	glycyl-tRNA synthetase 1	-1.618	6.644	Down
83930	STARD3NL	STARD3 N-terminal like	-0.884	2.919	Down
5683	PSMA2	proteasome 20S subunit alpha 2	-1.207	5.708	Down
644	BLVRA	biliverdin reductase A	-0.804	2.237	Down
5425	POLD2	DNA polymerase delta 2, accessory subunit	-1.188	6.795	Down
10652	YKT6	YKT6 v-SNARE homolog	-0.399	2.26	Down
54606	DDX56	DEAD-box helicase 56	-0.823	4.891	Down
4967	OGDH	oxoglutarate dehydrogenase	-0.475	2.513	Down
83637	ZMIZ2	zinc finger MIZ-type containing 2	-0.99	2.037	Down
5478	PPIA	peptidylprolyl isomerase A	-0.772	1.956	Down
5814	PURB	purine rich element binding protein B	-0.613	2.032	Down
64005	MYO1G	myosin IG	-1.584	5.792	Down
285958	SNHG15	small nucleolar RNA host gene 15	-0.644	1.917	Down
9238	TBRG4	transforming growth factor beta regulator 4	-0.395	1.695	Down
23480	SEC61G	SEC61 translocon subunit gamma	-1.118	3.854	Down
55915	LANCL2	LanC like glutathione S-transferase 2	-0.728	4.198	Down

51373	MRPS17	mitochondrial ribosomal protein S17	-0.62	1.87	Down
5723	PSPH	phosphoserine phosphatase	-1.443	4.102	Down
908	CCT6A	chaperonin containing TCP1 subunit 6A	-1.218	11.207	Down
51142	CHCHD2	coiled-coil-helix-coiled-coil-helix domain containing 2	-0.898	1.819	Down
649395	YWHAEP1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon pseudogene 1	-1.189	2.781	Down
8460	TPST1	tyrosylprotein sulfotransferase 1	-1.232	1.65	Down
51119	SBDS	SBDS ribosome maturation factor	-0.371	1.455	Down
114049	BUD23	BUD23 rRNA methyltransferase and ribosome maturation factor	-0.566	1.596	Down
7458	EIF4H	eukaryotic translation initiation factor 4H	-0.52	3.049	Down
83862	TMEM120A	transmembrane protein 120A	-1.151	3.117	Down
4191	MDH2	malate dehydrogenase 2	-0.516	2.598	Down
3315	HSPB1	heat shock protein family B (small) member 1	-1.435	10.219	Down
7532	YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma	-1.085	8.104	Down
57157	PHTF2	putative homeodomain transcription factor 2	-0.562	1.915	Down
6717	SRI	sorcin	-0.792	6.301	Down
1.03E+08	SRI-AS1	SRI antisense RNA 1	-0.727	1.957	Down
1595	CYP51A1	cytochrome P450 family 51 subfamily A member 1	-1.844	14.173	Down
1021	CDK6	cyclin dependent kinase 6	-1.957	7.64	Down
1.02E+08	CDK6-AS1	CDK6 antisense RNA 1	-1.771	1.794	Down
219285	SAMD9L	sterile alpha motif domain containing 9 like	-1.479	2.002	Down
7979	SEM1	SEM1 26S proteasome subunit	-0.7	3.116	Down
440	ASNS	asparagine synthetase (glutamine-hydrolyzing)	-2.385	14.626	Down
1.08E+08	CZ1P-ASNS	CZ1P-ASNS readthrough	-2.344	14.608	Down
389538	CCZ1P-OR7E38P	CCZ1P-OR7E38P readthrough	-1.016	4.215	Down
168620	BHLHA15	basic helix-loop-helix family member a15	-3.125	1.869	Down
55971	BAIAP2L1	BAR/IMD domain containing adaptor protein 2 like 1	-2.171	4.548	Down
4885	NPTX2	neuronal pentraxin 2	-4.071	2.333	Down
10095	ARPC1B	actin related protein 2/3 complex subunit 1B	-0.822	3.231	Down

11333	PDAP1	PDGFA associated protein 1	-0.798	5.272	Down
8896	BUD31	BUD31 homolog	-0.666	1.686	Down
1.01E+08	ATP5MF-PTCD1	ATP5MF-PTCD1 readthrough	-0.716	2.749	Down
26024	PTCD1	pentatricopeptide repeat domain 1	-0.498	2.23	Down
10898	CPSF4	cleavage and polyadenylation specific factor 4	-0.45	1.741	Down
9551	ATP5MF	ATP synthase membrane subunit f	-0.915	2.065	Down
10980	COPS6	COP9 signalosome subunit 6	-0.767	2.321	Down
4176	MCM7	minichromosome maintenance complex component 7	-0.582	1.978	Down
5379	PMS2P1	PMS1 homolog 2, mismatch repair system component pseudogene 1	-0.499	1.803	Down
3268	AGFG2	ArfGAP with FG repeats 2	-0.449	1.562	Down
10248	POP7	POP7 homolog, ribonuclease P/MRP subunit	-0.814	4.778	Down
7205	TRIP6	thyroid hormone receptor interactor 6	-0.928	3.359	Down
51593	SRRT	serrate, RNA effector molecule	-1.44	7.234	Down
1174	AP1S1	adaptor related protein complex 1 subunit sigma 1	-1.39	3.83	Down
80228	ORAI2	ORAI calcium release-activated calcium modulator 2	-0.769	7.64	Down
222229	LRWD1	leucine rich repeats and WD repeat domain containing 1	-0.728	4.27	Down
27000	DNAJC2	DnaJ heat shock protein family (Hsp40) member C2	-0.767	1.926	Down
5701	PSMC2	proteasome 26S subunit, ATPase 2	-1.074	8.101	Down
54517	PUS7	pseudouridine synthase 7	-1.274	6.393	Down
10135	NAMPT	nicotinamide phosphoribosyltransferase	-2.031	12.502	Down
168455	CCDC71L	coiled-coil domain containing 71 like	-1.191	11.707	Down
1.15E+08	DUS4L-BCAP29	DUS4L-BCAP29 readthrough	-0.584	2.492	Down
55973	BCAP29	B cell receptor associated protein 29	-0.748	3.536	Down
5172	SLC26A4	solute carrier family 26 member 4	-2.426	1.643	Down
1738	DLD	dihydrolipoamide dehydrogenase	-1.12	9.566	Down
3475	IFRD1	interferon related developmental regulator 1	-0.534	2.173	Down
7982	ST7	suppression of tumorigenicity 7	-0.902	3.435	Down
4698	NDUFA5	NADH:ubiquinone oxidoreductase subunit A5	-0.498	1.394	Down

27044	SND1	staphylococcal nuclease and tudor domain containing 1	-0.622	2.612	Down
29923	HILPDA	hypoxia inducible lipid droplet associated	-1.326	4.713	Down
55798	METTL2B	methyltransferase 2B, methylcytidine	-0.993	5.058	Down
813	CALU	calumenin	-0.479	2.379	Down
3663	IRF5	interferon regulatory factor 5	-0.86	1.41	Down
286016	TPI1P2	triosephosphate isomerase 1 pseudogene 2	-1.195	1.849	Down
57464	STRIP2	striatin interacting protein 2	-2.497	2.498	Down
51530	ZC3HC1	zinc finger C3HC-type containing 1	-0.491	1.326	Down
378805	LINC-PINT	long intergenic non-protein coding RNA, p53 induced transcript	-0.447	1.562	Down
54927	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3	-0.689	4.183	Down
84912	SLC35B4	solute carrier family 35 member B4	-0.795	2.911	Down
23165	NUP205	nucleoporin 205	-0.582	1.561	Down
92092	ZC3HAV1L	zinc finger CCCH-type containing, antiviral 1 like	-2.126	9.847	Down
1.08E+08	LOC107986852	uncharacterized LOC107986852	-1.908	1.429	Down
79989	TTC26	tetratricopeptide repeat domain 26	-1.458	6.353	Down
64761	PARP12	poly(ADP-ribose) polymerase family member 12	-1.193	3.177	Down
84255	SLC37A3	solute carrier family 37 member 3	-1.859	8.422	Down
401409	RAB19	RAB19, member RAS oncogene family	-2.697	11.397	Down
1E+08	NDUFB2-AS1	NDUFB2 antisense RNA 1	-0.634	1.637	Down
4708	NDUFB2	NADH:ubiquinone oxidoreductase subunit B2	-0.78	2.23	Down
1.01E+08	TMEM178B	transmembrane protein 178B	-1.303	1.538	Down
6742	SSBP1	single stranded DNA binding protein 1	-0.995	4.639	Down
135932	TMEM139	transmembrane protein 139	-2.66	2.557	Down
154761	LOC154761	family with sequence similarity 115, member C pseudogene	-0.339	1.314	Down
2146	EZH2	enhancer of zeste 2 polycomb repressive complex 2 subunit	-1.934	7.115	Down
653857	ACTR3C	actin related protein 3C	-0.999	1.541	Down
113763	ZBED10P	zinc finger BED-type containing 10, pseudogene	-0.717	2.455	Down
1.14E+08	ABCF2-H2BK1	ABCF2-H2BK1 readthrough	-1.123	7.293	Down

10061	ABCF2	ATP binding cassette subfamily F member 2	-1.272	9.263	Down
54480	CHPF2	chondroitin polymerizing factor 2	-0.481	2.247	Down
3638	INSIG1	insulin induced gene 1	-0.835	3.006	Down
9690	UBE3C	ubiquitin protein ligase E3C	-0.686	4.295	Down
10049	DNAJB6	DnaJ heat shock protein family (Hsp40) member B6	-0.532	3.679	Down
1.05E+08	LOC105375615	uncharacterized LOC105375615	-1.41	2.357	Down
90459	ERI1	exoribonuclease 1	-0.622	3.116	Down
54984	PINX1	PIN2 (TERF1) interacting telomerase inhibitor 1	-0.673	2.083	Down
83648	FAM167A	family with sequence similarity 167 member A	-1.645	2.946	Down
2222	FDFT1	farnesyl-diphosphate farnesyltransferase 1	-0.849	10.45	Down
91694	LONRF1	LON peptidase N-terminal domain and ring finger 1	-0.813	2.177	Down
10395	DLC1	DLC1 Rho GTPase activating protein	-2.303	2.618	Down
63898	SH2D4A	SH2 domain containing 4A	-1.235	2.048	Down
9046	DOK2	docking protein 2	-0.587	2.929	Down
2039	DMTN	dematin actin binding protein	-1.508	8.684	Down
661	POLR3D	RNA polymerase III subunit D	-0.65	3.365	Down
23516	SLC39A14	solute carrier family 39 member 14	-1.827	17.318	Down
1.08E+08	LOC107986924	uncharacterized LOC107986924	-7.241	17.64	Down
1960	EGR3	early growth response 3	-7.401	40.193	Down
4824	NKX3-1	NK3 homeobox 1	-0.914	1.772	Down
2137	EXTL3	exostosin like glycosyltransferase 3	-0.457	1.986	Down
55756	INTS9	integrator complex subunit 9	-0.746	3.452	Down
1846	DUSP4	dual specificity phosphatase 4	-2.547	10.64	Down
2936	GSR	glutathione-disulfide reductase	-0.829	11.047	Down
7993	UBXN8	UBX domain protein 8	-1.029	1.884	Down
84549	MAK16	MAK16 homolog	-0.884	3.246	Down
80185	TTI2	TELO2 interacting protein 2	-0.734	2.678	Down
80223	RAB11FIP1	RAB11 family interacting protein 1	-1.324	3.014	Down

1978	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	-1.314	4.445	Down
27257	LSM1	LSM1 homolog, mRNA degradation associated	-0.599	2.064	Down
137964	GPAT4	glycerol-3-phosphate acyltransferase 4	-0.446	2.365	Down
5327	PLAT	plasminogen activator, tissue type	-2.365	4.17	Down
5423	POLB	DNA polymerase beta	-0.739	1.711	Down
7419	VDAC3	voltage dependent anion channel 3	-1.001	4.617	Down
8973	CHRNA6	cholinergic receptor nicotinic alpha 6 subunit	-3.535	6.864	Down
4173	MCM4	minichromosome maintenance complex component 4	-1.5	5.342	Down
10434	LYPLA1	lysophospholipase 1	-1.078	4.639	Down
29088	MRPL15	mitochondrial ribosomal protein L15	-0.741	2.563	Down
96764	TGS1	trimethylguanosine synthase 1	-0.579	2.3	Down
54928	BPNT2	3'(2'), 5'-bisphosphate nucleotidase 2	-0.904	7.17	Down
9420	CYP7B1	cytochrome P450 family 7 subfamily B member 1	-2.948	3.126	Down
23212	RRS1	ribosome biogenesis regulator 1 homolog	-0.782	3.352	Down
51110	LACTB2	lactamase beta 2	-0.829	1.885	Down
9242	MSC	musculin	-1.118	1.31	Down
27067	STAU2	staufen double-stranded RNA binding protein 2	-0.384	2.466	Down
55284	UBE2W	ubiquitin conjugating enzyme E2 W	-0.53	1.602	Down
6921	ELOC	elongin C	-0.878	4.827	Down
51101	ZC2HC1A	zinc finger C2HC-type containing 1A	-1.035	2.265	Down
28957	MRPS28	mitochondrial ribosomal protein S28	-1.253	5.057	Down
3612	IMPA1	inositol monophosphatase 1	-0.751	3.308	Down
8767	RIPK2	receptor interacting serine/threonine kinase 2	-0.922	1.794	Down
734	OSGIN2	oxidative stress induced growth inhibitor family member 2	-0.497	2.264	Down
4683	NBN	nibrin	-0.97	5.27	Down
169200	TMEM64	transmembrane protein 64	-1.199	8.202	Down
1E+08	C8orf88	chromosome 8 open reading frame 88	-1.259	1.448	Down
51633	OTUD6B	OTU deubiquitinase 6B	-1.386	6.934	Down

51001	MTERF3	mitochondrial transcription termination factor 3	-0.471	1.607	Down
55353	LAPTM4B	lysosomal protein transmembrane 4 beta	-0.863	1.704	Down
10940	POP1	POP1 homolog, ribonuclease P/MRP subunit	-1.248	4.747	Down
6788	STK3	serine/threonine kinase 3	-1.047	5.35	Down
5440	POLR2K	RNA polymerase II, I and III subunit K	-0.888	2.545	Down
6674	SPAG1	sperm associated antigen 1	-2.14	12.627	Down
25897	RNF19A	ring finger protein 19A, RBR E3 ubiquitin protein ligase	-0.78	3.878	Down
51123	ZNF706	zinc finger protein 706	-0.446	1.432	Down
81034	SLC25A32	solute carrier family 25 member 32	-0.895	7.327	Down
25879	DCAF13	DDB1 and CUL4 associated factor 13	-1.177	5.372	Down
29967	LRP12	LDL receptor related protein 12	-0.887	2.582	Down
84955	NUDCD1	NudC domain containing 1	-1.536	11.239	Down
79075	DSCC1	DNA replication and sister chromatid cohesion 1	-2.043	3.436	Down
28998	MRPL13	mitochondrial ribosomal protein L13	-1.33	6.553	Down
3037	HAS2	hyaluronan synthase 2	-6.989	4.297	Down
157769	FAM91A1	family with sequence similarity 91 member A1	-0.585	4.27	Down
6713	SQLE	squalene epoxidase	-1.736	16.739	Down
51571	CYRIB	CYFIP related Rac1 interactor B	-0.595	2.738	Down
51105	PHF20L1	PHD finger protein 20 like 1	-0.992	3.23	Down
54108	CHRAC1	chromatin accessibility complex subunit 1	-0.545	1.842	Down
11156	PTP4A3	protein tyrosine phosphatase 4A3	-1.157	5.537	Down
4061	LY6E	lymphocyte antigen 6 family member E	-0.879	3.191	Down
79792	GSDMD	gasdermin D	-0.82	2.303	Down
65263	PYCR3	pyrroline-5-carboxylate reductase 3	-1.15	4.229	Down
7264	GFUS	GDP-L-fucose synthase	-1.447	8.709	Down
286077	FAM83H	family with sequence similarity 83 member H	-0.932	2.036	Down
22827	PUF60	poly(U) binding splicing factor 60	-0.74	4.246	Down
26873	OPLAH	5-oxoprolinase, ATP-hydrolysing	-1.973	3.024	Down

54512	EXOSC4	exosome component 4	-1.454	5.748	Down
8733	GPAA1	glycosylphosphatidylinositol anchor attachment 1	-0.66	2.622	Down
1537	CYC1	cytochrome c1	-1.109	4.247	Down
23246	BOP1	BOP1 ribosomal biogenesis factor	-1.673	11.528	Down
642658	SCX	scleraxis bHLH transcription factor	-0.94	1.682	Down
26233	FBXL6	F-box and leucine rich repeat protein 6	-0.977	2.731	Down
79581	SLC52A2	solute carrier family 52 member 2	-0.816	4.51	Down
4796	TONSL	tonsoku like, DNA repair protein	-1.169	2.545	Down
28991	COMMD5	COMM domain containing 5	-0.612	1.632	Down
65265	C8orf33	chromosome 8 open reading frame 33	-0.707	4.474	Down
55871	ZNG1A	Zn regulated GTPase metalloprotein activator 1A	-1.183	7.327	Down
7436	VLDLR	very low density lipoprotein receptor	-2.201	3.577	Down
9933	PUM3	pumilio RNA binding family member 3	-1.385	15.546	Down
29126	CD274	CD274 molecule	-1.985	4.498	Down
80380	PDCD1LG2	programmed cell death 1 ligand 2	-2.01	1.321	Down
2731	GLDC	glycine decarboxylase	-3.59	3.891	Down
340481	ZDHHC21	zinc finger DHHC-type palmitoyltransferase 21	-1.065	2.443	Down
54801	HAUS6	HAUS augmin like complex subunit 6	-0.429	2.065	Down
1030	CDKN2B	cyclin dependent kinase inhibitor 2B	-2.225	2.457	Down
79886	CAAP1	caspase activity and apoptosis inhibitor 1	-0.816	4.197	Down
9373	PLAA	phospholipase A2 activating protein	-0.657	3.91	Down
48	ACO1	aconitase 1	-0.485	1.442	Down
3301	DNAJA1	DnaJ heat shock protein family (Hsp40) member A1	-2.038	27.738	Down
65083	NOL6	nucleolar protein 6	-0.915	5.188	Down
203259	FAM219A	family with sequence similarity 219 member A	-0.884	3.642	Down
10280	SIGMAR1	sigma non-opioid intracellular receptor 1	-0.29	1.946	Down
7415	VCP	valosin containing protein	-1.313	27.401	Down
30968	STOML2	stomatin like 2	-1.129	4.729	Down

10020	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	-0.351	2.371	Down
9833	MELK	maternal embryonic leucine zipper kinase	-1.769	1.552	Down
51010	EXOSC3	exosome component 3	-0.75	5.381	Down
219	ALDH1B1	aldehyde dehydrogenase 1 family member B1	-1.099	9.437	Down
644019	ZNG1F	Zn regulated GTPase metalloprotein activator 1F	-1.018	3.894	Down
220869	ZNG1E	Zn regulated GTPase metalloprotein activator 1E	-0.789	2.024	Down
445571	ZNG1C	Zn regulated GTPase metalloprotein activator 1C	-1.126	6.662	Down
2395	FXN	frataxin	-0.603	2.861	Down
26578	OSTF1	osteoclast stimulating factor 1	-0.677	2.745	Down
55312	RFK	riboflavin kinase	-0.641	2.939	Down
2650	GCNT1	glucosaminyl (N-acetyl) transferase 1	-1.264	7.099	Down
29968	PSAT1	phosphoserine aminotransferase 1	-3.41	10.053	Down
29979	UBQLN1	ubiquilin 1	-0.247	1.711	Down
84267	C9orf64	chromosome 9 open reading frame 64	-0.812	4.805	Down
3190	HNRNPK	heterogeneous nuclear ribonucleoprotein K	-0.429	2.371	Down
4915	NTRK2	neurotrophic receptor tyrosine kinase 2	-1.969	1.46	Down
1164	CKS2	CDC28 protein kinase regulatory subunit 2	-1.912	20.14	Down
10912	GADD45G	growth arrest and DNA damage inducible gamma	-1.369	2.202	Down
1E+08	LINC03062	long intergenic non-protein coding RNA 3062	-5.116	9.983	Down
1.05E+08	LOC105376140	uncharacterized LOC105376140	-4.795	2.435	Down
549	AUH	AU RNA binding methylglutaconyl-CoA hydratase	-0.81	2.255	Down
4783	NFIL3	nuclear factor, interleukin 3 regulated	-1.816	5.749	Down
1.12E+08	LOC112268048	uncharacterized LOC112268048	-1.72	6.276	Down
3376	IARS1	isoleucyl-tRNA synthetase 1	-1.654	12.479	Down
401541	CENPP	centromere protein P	-0.453	1.475	Down
64768	IPPK	inositol-pentakisphosphate 2-kinase	-0.782	4.539	Down
4814	NINJ1	ninjurin 1	-1.219	6.128	Down
65268	WNK2	WNK lysine deficient protein kinase 2	-6.41	4.834	Down

138639	PTPDC1	protein tyrosine phosphatase domain containing 1	-0.656	1.869	Down
2176	FANCC	FA complementation group C	-1.066	4.361	Down
23424	TDRD7	tudor domain containing 7	-0.703	1.736	Down
4686	NCBP1	nuclear cap binding protein subunit 1	-0.71	4.289	Down
54187	NANS	N-acetylneuraminate synthase	-0.551	1.937	Down
10952	SEC61B	SEC61 translocon subunit beta	-1.101	3.128	Down
23071	ERP44	endoplasmic reticulum protein 44	-0.457	1.604	Down
2218	FKTN	fukutin	-0.537	1.474	Down
5887	RAD23B	RAD23 homolog B, nucleotide excision repair protein	-0.65	6.136	Down
8727	CTNNAL1	catenin alpha like 1	-0.556	1.425	Down
7295	TXN	thioredoxin	-2.363	3.966	Down
79987	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	-4.85	1.913	Down
23392	ECPAS	Ecm29 proteasome adaptor and scaffold	-0.617	2.025	Down
1317	SLC31A1	solute carrier family 31 member 1	-0.494	1.841	Down
5998	RGS3	regulator of G protein signaling 3	-1.598	8.685	Down
85301	COL27A1	collagen type XXVII alpha 1 chain	-2.085	3.186	Down
5711	PSMD5	proteasome 26S subunit, non-ATPase 5	-0.352	2.068	Down
7185	TRAF1	TNF receptor associated factor 1	-1.516	2.699	Down
2681	GGTA1	glycoprotein alpha-galactosyltransferase 1 (inactive)	-2.218	1.602	Down
92399	MRRF	mitochondrial ribosome recycling factor	-0.569	4.862	Down
55342	STRBP	spermatid perinuclear RNA binding protein	-0.346	1.316	Down
5695	PSMB7	proteasome 20S subunit beta 7	-0.734	1.64	Down
2649	NR6A1	nuclear receptor subfamily 6 group A member 1	-2.003	2.471	Down
81873	ARPC5L	actin related protein 2/3 complex subunit 5 like	-0.836	5.437	Down
3309	HSPA5	heat shock protein family A (Hsp70) member 5	-0.985	6.494	Down
138428	PTRH1	peptidyl-tRNA hydrolase 1 homolog	-1.01	4.127	Down
286207	CFAP157	cilia and flagella associated protein 157	-1.063	4.676	Down
2356	FPGS	folylpolyglutamate synthase	-1.144	16.359	Down

8818	DPM2	dolichyl-phosphate mannosyltransferase subunit 2, regulatory	-1.041	7.889	Down
80142	PTGES2	prostaglandin E synthase 2	-0.842	6.056	Down
26995	TRUB2	TruB pseudouridine synthase family member 2	-0.829	3.696	Down
51117	COQ4	coenzyme Q4	-0.442	1.449	Down
10999	SLC27A4	solute carrier family 27 member 4	-1.172	11.329	Down
51148	CERCAM	cerebral endothelial cell adhesion molecule	-1.141	1.401	Down
6418	SET	SET nuclear proto-oncogene	-0.411	2.104	Down
29941	PKN3	protein kinase N3	-0.795	2.194	Down
23511	NUP188	nucleoporin 188	-1.165	8.453	Down
1.02E+08	LOC101929314	uncharacterized LOC101929314	-1.063	5.148	Down
57171	DOLPP1	dolichyldiphosphatase 1	-0.61	3.405	Down
23048	FNBP1	formin binding protein 1	-0.41	1.303	Down
23413	NCS1	neuronal calcium sensor 1	-2.357	4.503	Down
23404	EXOSC2	exosome component 2	-0.483	3.364	Down
9442	MED27	mediator complex subunit 27	-0.997	8.317	Down
6837	MED22	mediator complex subunit 22	-0.352	1.316	Down
6836	SURF4	surfeit 4	-0.834	6.059	Down
11182	SLC2A6	solute carrier family 2 member 6	-1.328	1.372	Down
11091	WDR5	WD repeat domain 5	-0.326	1.437	Down
6256	RXRA	retinoid X receptor alpha	-0.758	4.126	Down
51116	MRPS2	mitochondrial ribosomal protein S2	-0.332	1.528	Down
23203	PMPCA	peptidase, mitochondrial processing subunit alpha	-0.598	2.946	Down
10555	AGPAT2	1-acylglycerol-3-phosphate O-acyltransferase 2	-0.823	3.472	Down
414332	LCN10	lipocalin 10	-2.092	2.721	Down
85014	TMEM141	transmembrane protein 141	-0.62	1.389	Down
29085	PHPT1	phosphohistidine phosphatase 1	-1.746	5.92	Down
7186	TRAF2	TNF receptor associated factor 2	-1.149	9.569	Down
954	ENTPD2	ectonucleoside triphosphate diphosphohydrolase 2	-4.546	1.634	Down

89958	SAPCD2	suppressor APC domain containing 2	-2.138	4.998	Down
727800	RNF208	ring finger protein 208	-1.358	2.36	Down
10383	TUBB4B	tubulin beta 4B class IVb	-1.653	10.946	Down
401565	FAM166A	family with sequence similarity 166 member A	-1.611	7.095	Down
441478	NRARP	NOTCH regulated ankyrin repeat protein	-1.593	2.29	Down
23560	GTPBP4	GTP binding protein 4	-1.178	10.424	Down
55853	IDI2-AS1	IDI2 antisense RNA 1	-1.352	4.614	Down
3422	IDI1	isopentenyl-diphosphate delta isomerase 1	-1.188	12.277	Down
10531	PITRM1	pitrilysin metallopeptidase 1	-1.504	5.818	Down
1.01E+08	PITRM1-AS1	PITRM1 antisense RNA 1	-1.262	3.862	Down
1.05E+08	LOC105376361	uncharacterized LOC105376361	-3.127	1.66	Down
1.05E+08	LOC105376367	uncharacterized LOC105376367	-1.381	2.77	Down
54906	TASOR2	transcription activation suppressor family member 2	-0.245	1.326	Down
3601	IL15RA	interleukin 15 receptor subunit alpha	-1.958	8.032	Down
1.08E+08	LOC107984200	uncharacterized LOC107984200	-1.852	4.065	Down
3559	IL2RA	interleukin 2 receptor subunit alpha	-2.965	3.096	Down
1.08E+08	LOC107984201	uncharacterized LOC107984201	-4.912	32.046	Down
84991	RBM17	RNA binding motif protein 17	-0.765	9.156	Down
509	ATP5F1C	ATP synthase F1 subunit gamma	-1.075	5.165	Down
1.05E+08	LOC105376392	uncharacterized LOC105376392	-1.001	2.198	Down
55176	SEC61A2	SEC61 translocon subunit alpha 2	-0.464	1.639	Down
11164	NUDT5	nudix hydrolase 5	-0.576	1.915	Down
8872	CDC123	cell division cycle 123	-0.708	2.943	Down
55388	MCM10	minichromosome maintenance 10 replication initiation factor	-5.035	6.858	Down
5264	PHYH	phytanoyl-CoA 2-hydroxylase	-0.67	1.324	Down
22929	SEPHS1	selenophosphate synthetase 1	-0.648	3.555	Down
51182	HSPA14	heat shock protein family A (Hsp70) member 14	-0.474	3.021	Down
79723	SUV39H2	SUV39H2 histone lysine methyltransferase	-1.132	6.429	Down

221061	FAM171A1	family with sequence similarity 171 member A1	-0.844	3.797	Down
6251	RSU1	Ras suppressor protein 1	-0.651	2.134	Down
23590	PDSS1	decaprenyl diphosphate synthase subunit 1	-0.889	4.087	Down
283078	MKX	mohawk homeobox	-4.701	3.959	Down
55149	MTPAP	mitochondrial poly(A) polymerase	-0.484	2.557	Down
1326	MAP3K8	mitogen-activated protein kinase kinase kinase 8	-3.842	13.07	Down
1390	CREM	cAMP responsive element modulator	-1.263	3.814	Down
9790	BMS1	BMS1 ribosome biogenesis factor	-0.81	4.19	Down
3185	HNRNPF	heterogeneous nuclear ribonucleoprotein F	-0.476	2.146	Down
10151	HNRNPA3P1	heterogeneous nuclear ribonucleoprotein A3 pseudogene 1	-1.414	5.353	Down
1E+08	TIMM23	translocase of inner mitochondrial membrane 23	-1.453	13.575	Down
170371	TMEM273	transmembrane protein 273	-2.338	3.431	Down
1.01E+08	TIMM23B	translocase of inner mitochondrial membrane 23 homolog B	-1.286	9.091	Down
11130	ZWINT	ZW10 interacting kinetochore protein	-1.904	6.087	Down
55847	CISD1	CDGSH iron sulfur domain 1	-0.984	2.103	Down
7019	TFAM	transcription factor A, mitochondrial	-0.506	1.91	Down
220963	SLC16A9	solute carrier family 16 member 9	-7.015	5.391	Down
8030	CCDC6	coiled-coil domain containing 6	-0.944	5.534	Down
84890	ADO	2-aminoethanethiol dioxygenase	-0.941	2.561	Down
1959	EGR2	early growth response 2	-2.682	5.05	Down
29982	NRBF2	nuclear receptor binding factor 2	-0.457	1.537	Down
1763	DNA2	DNA replication helicase/nuclease 2	-1.346	4.531	Down
9188	DDX21	DExD-box helicase 21	-1.52	15.483	Down
5552	SRGN	serglycin	-1.469	9.427	Down
3098	HK1	hexokinase 1	-0.514	6.844	Down
219738	FAM241B	family with sequence similarity 241 member B	-1.42	4.247	Down
84883	AIFM2	apoptosis inducing factor mitochondria associated 2	-1.37	3.037	Down
5464	PPA1	inorganic pyrophosphatase 1	-0.846	3.675	Down

27143	PALD1	phosphatase domain containing paladin 1	-1.803	1.313	Down
5092	PCBD1	pterin-4 alpha-carbinolamine dehydratase 1	-0.756	3.827	Down
54541	DDIT4	DNA damage inducible transcript 4	-1.222	3.74	Down
54788	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12	-0.667	6.056	Down
11319	ECD	ecdysoneless cell cycle regulator	-0.639	3.038	Down
23234	DNAJC9	DnaJ heat shock protein family (Hsp40) member C9	-0.547	2.069	Down
51021	MRPS16	mitochondrial ribosomal protein S16	-0.587	2.47	Down
310	ANXA7	annexin A7	-0.641	3.586	Down
118487	CHCHD1	coiled-coil-helix-coiled-coil-helix domain containing 1	-0.887	2.853	Down
26985	AP3M1	adaptor related protein complex 3 subunit mu 1	-0.579	1.902	Down
118881	COMTD1	catechol-O-methyltransferase domain containing 1	-1.042	2.563	Down
10105	PPIF	peptidylprolyl isomerase F	-1.269	3.932	Down
143244	EIF5AL1	eukaryotic translation initiation factor 5A like 1	-2.014	22.727	Down
1E+08	LOC100130698	uncharacterized LOC100130698	-2.453	4.868	Down
27069	GHITM	growth hormone inducible transmembrane protein	-0.675	2.388	Down
55328	RNLS	renalase, FAD dependent amine oxidase	-1.1	3.098	Down
355	FAS	Fas cell surface death receptor	-2.355	8.453	Down
3437	IFIT3	interferon induced protein with tetratricopeptide repeats 3	-2.72	2.187	Down
24138	IFIT5	interferon induced protein with tetratricopeptide repeats 5	-0.703	1.64	Down
10556	RPP30	ribonuclease P/MRP subunit p30	-0.645	2.516	Down
143279	HECTD2	HECT domain E3 ubiquitin protein ligase 2	-1.004	2.268	Down
9044	BTAF1	B-TFIID TATA-box binding protein associated factor 1	-0.544	1.683	Down
3416	IDE	insulin degrading enzyme	-0.975	7.069	Down
55165	CEP55	centrosomal protein 55	-1.579	1.967	Down
266971	PIPSL	PIP5K1A and PSMD4 like (pseudogene)	-0.523	1.561	Down
64318	NOC3L	NOC3 like DNA replication regulator	-0.937	7.778	Down
3070	HELLS	helicase, lymphoid specific	-1.99	7.715	Down
5832	ALDH18A1	aldehyde dehydrogenase 18 family member A1	-0.861	3.774	Down

953	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1	-0.387	1.488	Down
23223	RRP12	ribosomal RNA processing 12 homolog	-1.658	8.817	Down
5223	PGAM1	phosphoglycerate mutase 1	-1.716	8.791	Down
51013	EXOSC1	exosome component 1	-0.576	2.129	Down
84287	ZDHHC16	zinc finger DHHC-type palmitoyltransferase 16	-1.316	10.849	Down
2805	GOT1	glutamic-oxaloacetic transaminase 1	-1.318	2.98	Down
57089	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7	-0.652	2.745	Down
1147	CHUK	component of inhibitor of nuclear factor kappa B kinase complex	-0.788	2.77	Down
6319	SCD	stearoyl-CoA desaturase	-2.078	4.612	Down
4714	NDUFB8	NADH:ubiquinone oxidoreductase subunit B8	-0.687	1.434	Down
10360	NPM3	nucleophosmin/nucleoplasmin 3	-1.255	2.444	Down
23082	PPRC1	PPARG related coactivator 1	-0.483	1.46	Down
9221	NOLC1	nucleolar and coiled-body phosphoprotein 1	-0.908	4.792	Down
4791	NFKB2	nuclear factor kappa B subunit 2	-2.269	11.358	Down
79847	MFSD13A	major facilitator superfamily domain containing 13A	-0.411	1.699	Down
10121	ACTR1A	actin related protein 1A	-0.596	3.73	Down
118980	SFXN2	sideroflexin 2	-1.196	5.318	Down
84833	ATP5MK	ATP synthase membrane subunit k	-0.669	1.313	Down
22984	PDCD11	programmed cell death 11	-0.695	1.947	Down
9148	NEURL1	neuralized E3 ubiquitin protein ligase 1	-1.502	4.6	Down
7511	XPNPEP1	X-prolyl aminopeptidase 1	-0.954	2.635	Down
1847	DUSP5	dual specificity phosphatase 5	-3.04	6.414	Down
51703	ACSL5	acyl-CoA synthetase long chain family member 5	-0.852	4.333	Down
64429	ZDHHC6	zinc finger DHHC-type palmitoyltransferase 6	-0.462	2.329	Down
840	CASP7	caspase 7	-1.188	4.518	Down
9937	DCLRE1A	DNA cross-link repair 1A	-0.71	4.304	Down
374354	NHLRC2	NHL repeat containing 2	-0.417	1.432	Down
119559	SFXN4	sideroflexin 4	-1.412	10.798	Down

10935	PRDX3	peroxiredoxin 3	-1.193	7.218	Down
22876	INPP5F	inositol polyphosphate-5-phosphatase F	-0.461	1.598	Down
55717	WDR11	WD repeat domain 11	-0.922	9.324	Down
54780	NSMCE4A	NSE4 homolog A, SMC5-SMC6 complex component	-0.56	2.024	Down
4942	OAT	ornithine aminotransferase	-0.644	3.919	Down
56647	BCCIP	BRCA2 and CDKN1A interacting protein	-0.922	4.318	Down
10539	GLRX3	glutaredoxin 3	-1.158	6.271	Down
282974	STK32C	serine/threonine kinase 32C	-0.971	2.102	Down
101	ADAM8	ADAM metallopeptidase domain 8	-0.832	3.506	Down
118472	ZNF511	zinc finger protein 511	-0.924	3.459	Down
282969	FUOM	fucose mutarotase	-2.154	18.605	Down
1892	ECHS1	enoyl-CoA hydratase, short chain 1	-0.705	4.836	Down
196743	PAOX	polyamine oxidase	-1.024	5.138	Down
92170	MTG1	mitochondrial ribosome associated GTPase 1	-0.831	3.692	Down
5719	PSMD13	proteasome 26S subunit, non-ATPase 13	-1.088	5.611	Down
6050	RNH1	ribonuclease/angiogenin inhibitor 1	-0.606	2.273	Down
1.01E+08	LOC101059906		-1.426	1.475	Down
3265	HRAS	HRas proto-oncogene, GTPase	-0.877	4.533	Down
6888	TALDO1	transaldolase 1	-1.226	4.151	Down
51286	CEND1	cell cycle exit and neuronal differentiation 1	-3.461	2.035	Down
79751	SLC25A22	solute carrier family 25 member 22	-1.589	13.867	Down
5441	POLR2L	RNA polymerase II, I and III subunit L	-1.146	5.016	Down
7106	TSPAN4	tetraspanin 4	-0.777	1.387	Down
66005	CHID1	chitinase domain containing 1	-0.597	1.676	Down
6150	MRPL23	mitochondrial ribosomal protein L23	-0.887	2.125	Down
3481	IGF2	insulin like growth factor 2	-7.34	10.541	Down
723961	INS-IGF2	INS-IGF2 readthrough	-8.431	8.308	Down
430	ASCL2	achaete-scute family bHLH transcription factor 2	-1.089	1.369	Down

975	CD81	CD81 molecule	-0.26	1.332	Down
7262	PHLDA2	pleckstrin homology like domain family A member 2	-2.637	5.13	Down
833	CARS1	cysteinyl-tRNA synthetase 1	-0.913	3.175	Down
1.01E+08	CARS1-AS1	CARS1 antisense RNA 1	-1.009	3.766	Down
6737	TRIM21	tripartite motif containing 21	-1.217	4.375	Down
3611	ILK	integrin linked kinase	-0.64	1.362	Down
63875	MRPL17	mitochondrial ribosomal protein L17	-0.689	1.561	Down
1982	EIF4G2	eukaryotic translation initiation factor 4 gamma 2	-0.515	4.309	Down
374378	GALNT18	polypeptide N-acetylgalactosaminyltransferase 18	-0.749	1.592	Down
283106	CSNK2A3	casein kinase 2 alpha 3	-0.704	3.213	Down
9645	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2	-1.362	2.776	Down
84188	FAR1	fatty acyl-CoA reductase 1	-0.527	2.543	Down
22800	RRAS2	RAS related 2	-1.16	7.095	Down
1315	COPB1	COPI coat complex subunit beta 1	-0.713	3.346	Down
5682	PSMA1	proteasome 20S subunit alpha 1	-1.524	13.829	Down
113174	SAAL1	serum amyloid A like 1	-0.821	3.137	Down
3939	LDHA	lactate dehydrogenase A	-1.367	2.998	Down
7251	TSG101	tumor susceptibility 101	-0.648	1.766	Down
55293	UEVLD	UEV and lactate/malate dehyrogenase domains	-1.614	13.773	Down
1.01E+08	MISFA	mitochondrial sheath formation associated	-0.553	1.391	Down
144108	SPTY2D1	SPT2 chromatin protein domain containing 1	-0.585	2.598	Down
54503	ZDHHC13	zinc finger DHHC-type palmitoyltransferase 13	-0.465	1.936	Down
5954	RCN1	reticulocalbin 1	-1.88	7.754	Down
966	CD59	CD59 molecule (CD59 blood group)	-0.753	3.941	Down
4076	CAPRIN1	cell cycle associated protein 1	-0.552	2.54	Down
55226	NAT10	N-acetyltransferase 10	-0.707	4.275	Down
6506	SLC1A2	solute carrier family 1 member 2	-2.334	1.609	Down
8539	API5	apoptosis inhibitor 5	-0.477	1.559	Down

51144	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12	-0.551	2.377	Down
1.08E+08	LOC107984328	uncharacterized LOC107984328	-0.703	1.571	Down
3732	CD82	CD82 molecule	-1.43	9.191	Down
9537	TP53I11	tumor protein p53 inducible protein 11	-1.467	3.82	Down
4192	MDK	midkine	-1.836	1.993	Down
29763	PACSIN3	protein kinase C and casein kinase substrate in neurons 3	-2.808	7.593	Down
53	ACP2	acid phosphatase 2, lysosomal	-0.972	3.767	Down
5702	PSMC3	proteasome 26S subunit, ATPase 3	-1.261	7.981	Down
23788	MTCH2	mitochondrial carrier 2	-1.053	5.879	Down
6749	SSRP1	structure specific recognition protein 1	-0.633	5.138	Down
5553	PRG2	proteoglycan 2, pro eosinophil major basic protein	-0.975	1.469	Down
1.05E+08	LOC105369312		-3.404	2.491	Down
29015	SLC43A3	solute carrier family 43 member 3	-2.557	38.658	Down
26519	TIMM10	translocase of inner mitochondrial membrane 10	-0.871	1.538	Down
9246	UBE2L6	ubiquitin conjugating enzyme E2 L6	-1.099	3.937	Down
219541	MED19	mediator complex subunit 19	-0.704	1.787	Down
80829	ZFP91	ZFP91 zinc finger protein, atypical E3 ubiquitin ligase	-0.338	1.32	Down
374393	FAM111B	FAM111 trypsin like peptidase B	-2.342	2.437	Down
54948	MRPL16	mitochondrial ribosomal protein L16	-0.498	1.585	Down
79080	CCDC86	coiled-coil domain containing 86	-1.621	11.355	Down
27339	PRPF19	pre-mRNA processing factor 19	-0.561	5.409	Down
1.05E+08	LOC105369325	uncharacterized LOC105369325	-1.834	6.173	Down
220001	VWCE	von Willebrand factor C and EGF domains	-1.839	1.574	Down
1642	DDB1	damage specific DNA binding protein 1	-0.677	2.465	Down
9066	SYT7	synaptotagmin 7	-2.516	1.869	Down
2237	FEN1	flap structure-specific endonuclease 1	-1.054	8.163	Down
80150	ASRGL1	asparaginase and isoaspartyl peptidase 1	-0.997	1.524	Down
9219	MTA2	metastasis associated 1 family member 2	-0.371	2.741	Down

79081	LBHD1	LBH domain containing 1	-0.804	2.617	Down
1.02E+08	C11orf98	chromosome 11 open reading frame 98	-0.877	2.865	Down
10629	TAF6L	TATA-box binding protein associated factor 6 like	-0.388	1.337	Down
54663	WDR74	WD repeat domain 74	-0.42	1.479	Down
6520	SLC3A2	solute carrier family 3 member 2	-1.194	5.507	Down
65998	ZFTA	zinc finger translocation associated	-0.73	1.656	Down
55611	OTUB1	OTU deubiquitinase, ubiquitin aldehyde binding 1	-0.582	2.844	Down
10963	STIP1	stress induced phosphoprotein 1	-2.007	12.632	Down
83706	FERMT3	FERM domain containing kindlin 3	-0.498	2.509	Down
2286	FKBP2	FKBP prolyl isomerase 2	-0.787	3.079	Down
1.15E+08	LOC114841035	Uncharacterized protein LOC114841035	-0.776	2.981	Down
26472	PPP1R14B	protein phosphatase 1 regulatory inhibitor subunit 14B	-1.421	6.1	Down
1.05E+08	PPP1R14B-AS1	PPP1R14B antisense RNA 1	-1.157	1.47	Down
56834	GPR137	G protein-coupled receptor 137	-1.28	11.357	Down
25824	PRDX5	peroxiredoxin 5	-0.665	1.906	Down
283234	CCDC88B	coiled-coil domain containing 88B	-0.952	1.803	Down
1.01E+08	ARL2-SNX15	ARL2-SNX15 readthrough (NMD candidate)	-0.475	2.62	Down
402	ARL2	ADP ribosylation factor like GTPase 2	-0.923	4.097	Down
113130	CDCA5	cell division cycle associated 5	-1.245	5.101	Down
823	CAPN1	calpain 1	-0.271	2.416	Down
23649	POLA2	DNA polymerase alpha 2, accessory subunit	-1.299	7.791	Down
10435	CDC42EP2	CDC42 effector protein 2	-1.303	2.212	Down
10534	ZNRD2	zinc ribbon domain containing 2	-1.367	9.798	Down
254122	SNX32	sorting nexin 32	-0.805	2.644	Down
1072	CFL1	cofilin 1	-0.87	4.093	Down
80198	MUS81	MUS81 structure-specific endonuclease subunit	-0.406	1.838	Down
9158	FIBP	FGF1 intracellular binding protein	-0.818	3.894	Down
8061	FOSL1	FOS like 1, AP-1 transcription factor subunit	-4.871	14.33	Down

10589	DRAP1	DR1 associated protein 1	-0.754	2.99	Down
8815	BANF1	BAF nuclear assembly factor 1	-1.13	14.934	Down
64837	KLC2	kinesin light chain 2	-2.186	12.767	Down
1.05E+08	KLC2-AS1	KLC2 antisense RNA 1	-2.103	9.517	Down
1.05E+08	KLC2-AS2	KLC2 antisense RNA 2	-2.249	2.013	Down
81876	RAB1B	RAB1B, member RAS oncogene family	-0.516	2.012	Down
1.08E+08	LOC107984340	uncharacterized LOC107984340	-0.559	3.507	Down
10897	YIF1A	Yip1 interacting factor homolog A, membrane trafficking protein	-1.26	5.814	Down
65003	MRPL11	mitochondrial ribosomal protein L11	-0.958	2.379	Down
10072	DPP3	dipeptidyl peptidase 3	-1.812	20.569	Down
10432	RBM14	RNA binding motif protein 14	-0.509	1.458	Down
9986	RCE1	Ras converting CAAX endopeptidase 1	-0.491	1.848	Down
78999	LRFN4	leucine rich repeat and fibronectin type III domain containing 4	-0.949	2.776	Down
29984	RHOD	ras homolog family member D	-2.032	1.629	Down
5499	PPP1CA	protein phosphatase 1 catalytic subunit alpha	-0.82	3.555	Down
57571	CARNS1	carnosine synthase 1	-1.111	2.159	Down
6199	RPS6KB2	ribosomal protein S6 kinase B2	-0.624	3.219	Down
10263	CDK2AP2	cyclin dependent kinase 2 associated protein 2	-1.01	4.652	Down
2950	GSTP1	glutathione S-transferase pi 1	-1.688	8.06	Down
4723	NDUFV1	NADH:ubiquinone oxidoreductase core subunit V1	-0.612	1.886	Down
254552	NUDT8	nudix hydrolase 8	-1.147	2.446	Down
4728	NDUFS8	NADH:ubiquinone oxidoreductase core subunit S8	-0.484	1.567	Down
1119	CHKA	choline kinase alpha	-1.287	6.195	Down
2017	CTTN	cortactin	-2.385	7.921	Down
1717	DHCR7	7-dehydrocholesterol reductase	-1.031	4.248	Down
1E+08	XNDC1N	XRCC1 N-terminal domain containing 1, N-terminal like	-0.85	1.308	Down
55298	RNF121	ring finger protein 121	-0.429	2.604	Down
81570	CLPB	caseinolytic mitochondrial matrix peptidase chaperone subunit B	-0.88	1.503	Down

10809	STARD10	StAR related lipid transfer domain containing 10	-1.424	7.005	Down
84957	RELT	RELT TNF receptor	-0.788	2.351	Down
51287	COA4	cytochrome c oxidase assembly factor 4 homolog	-0.641	1.843	Down
51400	PPME1	protein phosphatase methylesterase 1	-0.487	2.725	Down
84649	DGAT2	diacylglycerol O-acyltransferase 2	-2.096	6.338	Down
1.02E+08	LINC02757	long intergenic non-protein coding RNA 2757	-6.436	4.304	Down
2615	LRRC32	leucine rich repeat containing 32	-3.303	7.817	Down
1.08E+08	LOC107984360		-3.269	5.966	Down
92105	INTS4	integrator complex subunit 4	-0.426	2.581	Down
79053	ALG8	ALG8 alpha-1,3-glucosyltransferase	-0.615	1.45	Down
220042	DDIAS	DNA damage induced apoptosis suppressor	-1.411	6.613	Down
27314	RAB30	RAB30, member RAS oncogene family	-1.396	12.752	Down
84233	TMEM126A	transmembrane protein 126A	-0.905	2.272	Down
8726	EED	embryonic ectoderm development	-1.238	15.604	Down
10873	ME3	malic enzyme 3	-1.153	1.496	Down
65084	TMEM135	transmembrane protein 135	-0.473	2.704	Down
1075	CTSC	cathepsin C	-0.661	1.537	Down
26973	CHORDC1	cysteine and histidine rich domain containing 1	-1.103	4.891	Down
677822	SNORA40	small nucleolar RNA, H/ACA box 40	-1.167	1.49	Down
24145	PANX1	pannexin 1	-0.584	1.35	Down
8898	MTMR2	myotubularin related protein 2	-1.322	12.832	Down
330	BIRC3	baculoviral IAP repeat containing 3	-1.167	4.713	Down
4312	MMP1	matrix metallopeptidase 1	-3.611	2.636	Down
84259	DCUN1D5	defective in cullin neddylation 1 domain containing 5	-0.999	7.141	Down
84437	MSANTD4	Myb/SANT DNA binding domain containing 4 with coiled-coils	-0.75	6.327	Down
54733	SLC35F2	solute carrier family 35 member F2	-1.326	20.268	Down
38	ACAT1	acetyl-CoA acetyltransferase 1	-0.683	4.751	Down
1662	DDX10	DEAD-box helicase 10	-0.981	3.962	Down

5962	RDX	radixin	-1.451	10.184	Down
5519	PPP2R1B	protein phosphatase 2 scaffold subunit Abeta	-0.966	5.7	Down
79796	ALG9	ALG9 alpha-1,2-mannosyltransferase	-0.378	2.22	Down
91893	FDXACB1	ferredoxin-fold anticodon binding domain containing 1	-0.81	4.655	Down
1737	DLAT	dihydrolipoamide S-acetyltransferase	-0.704	6.457	Down
120379	PIH1D2	PIH1 domain containing 2	-0.744	3.973	Down
26521	TIMM8B	translocase of inner mitochondrial membrane 8 homolog B	-0.778	1.583	Down
5805	PTS	6-pyruvoyltetrahydropterin synthase	-1.079	4.792	Down
9183	ZW10	zw10 kinetochore protein	-0.635	2.849	Down
8882	ZPR1	ZPR1 zinc finger	-0.529	2.697	Down
196264	MPZL3	myelin protein zero like 3	-0.695	1.768	Down
10205	MPZL2	myelin protein zero like 2	-2.734	16.023	Down
372	ARCN1	archain 1	-0.489	1.614	Down
10525	HYOU1	hypoxia up-regulated 1	-1.056	7.733	Down
3145	HMBS	hydroxymethylbilane synthase	-1.441	4.431	Down
3014	H2AX	H2A.X variant histone	-0.67	2.273	Down
1798	DPAGT1	dolichyl-phosphate N-acetylglucosaminephosphotransferase 1	-0.411	1.494	Down
220323	OAF	out at first homolog	-0.828	1.524	Down
23365	ARHGEF12	Rho guanine nucleotide exchange factor 12	-0.938	1.989	Down
3312	HSPA8	heat shock protein family A (Hsp70) member 8	-0.962	3.727	Down
57476	GRAMD1B	GRAM domain containing 1B	-1.328	3.753	Down
9638	FEZ1	fasciculation and elongation protein zeta 1	-4.144	6.613	Down
3703	STT3A	STT3 oligosaccharyltransferase complex catalytic subunit A	-0.603	2.608	Down
1111	CHEK1	checkpoint kinase 1	-2.146	18.639	Down
219844	HYLS1	HYLS1 centriolar and ciliogenesis associated	-0.566	1.736	Down
28960	DCPS	decapping enzyme, scavenger	-0.934	3.361	Down
89944	GLB1L2	galactosidase beta 1 like 2	-1.277	2.239	Down
1.08E+08	LOC107987373	replaced by ID 6150	-0.952	2.852	Down

2288	FKBP4	FKBP prolyl isomerase 4	-1.369	11.794	Down
1.04E+08	CCND2-AS1	CCND2 antisense RNA 1	-2.475	19.101	Down
894	CCND2	cyclin D2	-1.824	25.236	Down
57103	TIGAR	TP53 induced glycolysis regulatory phosphatase	-0.596	2.532	Down
10635	RAD51AP1	RAD51 associated protein 1	-2.07	4.51	Down
4704	NDUFA9	NADH:ubiquinone oxidoreductase subunit A9	-1.371	11.318	Down
55080	TAPBPL	TAP binding protein like	-0.742	2.537	Down
51258	MRPL51	mitochondrial ribosomal protein L51	-0.655	1.536	Down
2597	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	-0.998	2.136	Down
4839	NOP2	NOP2 nucleolar protein	-0.795	4.056	Down
1108	CHD4	chromodomain helicase DNA binding protein 4	-0.975	3.5	Down
8079	MLF2	myeloid leukemia factor 2	-0.732	5.11	Down
5763	PTMS	parathymosin	-1.306	1.493	Down
3902	LAG3	lymphocyte activating 3	-1.977	5.256	Down
8078	USP5	ubiquitin specific peptidase 5	-0.882	7.749	Down
7167	TPI1	triosephosphate isomerase 1	-1.46	3.981	Down
1822	ATN1	atrophin 1	-0.877	2.187	Down
5777	PTPN6	protein tyrosine phosphatase non-receptor type 6	-0.762	5.846	Down
10436	EMG1	EMG1 N1-specific pseudouridine methyltransferase	-0.568	2.736	Down
969	CD69	CD69 molecule	-3.519	16.359	Down
55110	MAGOHB	mago homolog B, exon junction complex subunit	-1.411	20.541	Down
8531	YBX3	Y-box binding protein 3	-1.367	2.194	Down
79370	BCL2L14	BCL2 like 14	-3.507	2.982	Down
51202	DDX47	DEAD-box helicase 47	-0.707	2.192	Down
57613	FAM234B	family with sequence similarity 234 member B	-0.406	1.525	Down
1.03E+08	LOC102724146	uncharacterized LOC102724146	-0.761	2.873	Down
11171	STRAP	serine/threonine kinase receptor associated protein	-0.904	4.112	Down
121536	AEBP2	AE binding protein 2	-0.436	1.314	Down

79912	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1	-0.601	2.329	Down
51026	GOLT1B	golgi transport 1B	-0.42	1.411	Down
55500	ETNK1	ethanolamine kinase 1	-0.813	2.91	Down
26127	FGFR1OP2	FGFR1 oncogene partner 2	-0.345	1.69	Down
60488	MRPS35	mitochondrial ribosomal protein S35	-0.629	1.899	Down
1.01E+08	DENND5B-AS1	DENND5B antisense RNA 1	-2.111	1.794	Down
10059	DNM1L	dynamin 1 like	-0.749	4.79	Down
51067	YARS2	tyrosyl-tRNA synthetase 2	-0.632	3.792	Down
55605	KIF21A	kinesin family member 21A	-0.97	1.646	Down
83448	PUS7L	pseudouridine synthase 7 like	-0.34	1.384	Down
54407	SLC38A2	solute carrier family 38 member 2	-0.546	1.337	Down
1.08E+08	LINC02416	long intergenic non-protein coding RNA 2416	-3.16	2.07	Down
10411	RAPGEF3	Rap guanine nucleotide exchange factor 3	-1.628	1.623	Down
55652	SLC48A1	solute carrier family 48 member 1	-0.654	2.794	Down
51564	HDAC7	histone deacetylase 7	-0.767	4.632	Down
7421	VDR	vitamin D receptor	-3.985	31.975	Down
29843	SENP1	SUMO specific peptidase 1	-0.566	7.201	Down
5213	PFKM	phosphofructokinase, muscle	-0.714	7.143	Down
27289	RND1	Rho family GTPase 1	-1.785	3.837	Down
377	ARF3	ADP ribosylation factor 3	-0.568	3.335	Down
23109	DDN	dendrin	-2.816	1.803	Down
121268	RHEBL1	RHEB like 1	-1.58	3.2	Down
10376	TUBA1B	tubulin alpha 1b	-2.408	27.127	Down
1.05E+08	TUBA1B-AS1	TUBA1B antisense RNA 1	-1.993	2.188	Down
7846	TUBA1A	tubulin alpha 1a	-1.227	8.159	Down
84790	TUBA1C	tubulin alpha 1c	-2.402	14.968	Down
65244	SPATS2	spermatogenesis associated serine rich 2	-0.79	4.235	Down
10445	MCRS1	microspherule protein 1	-0.405	1.416	Down

91010	FMNL3	formin like 3	-0.803	2.584	Down
91012	CERS5	ceramide synthase 5	-0.432	1.346	Down
51474	LIMA1	LIM domain and actin binding 1	-1.915	4.509	Down
113251	LARP4	La ribonucleoprotein 4	-1.207	17.424	Down
4891	SLC11A2	solute carrier family 11 member 2	-1.064	13.458	Down
11226	GALNT6	polypeptide N-acetylgalactosaminyltransferase 6	-1.337	4.034	Down
3164	NR4A1	nuclear receptor subfamily 4 group A member 1	-5.902	24.33	Down
60673	ATG101	autophagy related 101	-0.755	2.67	Down
5916	RARG	retinoic acid receptor gamma	-0.446	1.316	Down
9700	ESPL1	extra spindle pole bodies like 1, separase	-2.657	3.753	Down
8086	AAAS	aladin WD repeat nucleoporin	-0.702	2.89	Down
6895	TARBP2	TARBP2 subunit of RISC loading complex	-0.674	1.46	Down
3178	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	-0.634	1.871	Down
967	CD63	CD63 molecule	-0.697	1.46	Down
84324	SARNP	SAP domain containing ribonucleoprotein	-0.586	1.948	Down
29095	ORMDL2	ORMDL sphingolipid biosynthesis regulator 2	-0.793	3.52	Down
1017	CDK2	cyclin dependent kinase 2	-1.059	7.981	Down
64375	IKZF4	IKAROS family zinc finger 4	-1.376	2.919	Down
1.05E+08	LOC105369781	uncharacterized LOC105369781	-1.484	1.408	Down
5036	PA2G4	proliferation-associated 2G4	-0.696	3.872	Down
140465	MYL6B	myosin light chain 6B	-1.321	2.228	Down
4637	MYL6	myosin light chain 6	-0.791	1.842	Down
79035	NABP2	nucleic acid binding protein 2	-0.94	7.305	Down
1431	CS	citrate synthase	-0.85	4.55	Down
10330	CNPY2	canopy FGF signaling regulator 2	-0.674	2.122	Down
51561	IL23A	interleukin 23 subunit alpha	-1.548	9.268	Down
8914	TIMELESS	timeless circadian regulator	-1.039	5.021	Down
1.07E+08	SNORA105C	small nucleolar RNA, H/ACA box 105C	-1.077	2.477	Down

506	ATP5F1B	ATP synthase F1 subunit beta	-0.988	6.519	Down
10728	PTGES3	prostaglandin E synthase 3	-0.656	2.981	Down
23306	NEMP1	nuclear envelope integral membrane protein 1	-0.869	2.677	Down
4665	NAB2	NGFI-A binding protein 2	-0.924	1.6	Down
6472	SHMT2	serine hydroxymethyltransferase 2	-1.398	5.858	Down
56901	NDUFA4L2	NDUFA4 mitochondrial complex associated like 2	-1.72	1.602	Down
4141	MARS1	methionyl-tRNA synthetase 1	-1.838	10.034	Down
196403	DTX3	deltex E3 ubiquitin ligase 3	-0.627	1.44	Down
6302	TSPAN31	tetraspanin 31	-0.895	2.207	Down
1019	CDK4	cyclin dependent kinase 4	-1.063	4.202	Down
1594	CYP27B1	cytochrome P450 family 27 subfamily B member 1	-2.183	3.092	Down
4234	METTL1	methyltransferase 1, tRNA methylguanosine	-1.671	6.999	Down
10102	TSFM	Ts translation elongation factor, mitochondrial	-0.668	1.585	Down
1.05E+08	LOC105369783	uncharacterized LOC105369783	-2.709	2.075	Down
11260	XPOT	exportin for tRNA	-0.557	1.843	Down
29110	TBK1	TANK binding kinase 1	-0.707	3.271	Down
84298	LLPH	LLP homolog, long-term synaptic facilitation factor	-0.436	1.954	Down
55832	CAND1	cullin associated and neddylation dissociated 1	-0.468	1.327	Down
3458	IFNG	interferon gamma	-6.085	13.9	Down
55801	IL26	interleukin 26	-4.791	5.777	Down
50616	IL22	interleukin 22	-7.946	6.132	Down
1.01E+08	LINC02384	long intergenic non-protein coding RNA 2384	-4.604	1.637	Down
57122	NUP107	nucleoporin 107	-0.693	1.737	Down
4193	MDM2	MDM2 proto-oncogene	-0.482	4.312	Down
11052	CPSF6	cleavage and polyadenylation specific factor 6	-0.578	2.887	Down
10576	CCT2	chaperonin containing TCP1 subunit 2	-1.304	6.102	Down
11103	KRR1	KRR1 small subunit processome component homolog	-0.492	4.473	Down
22822	PHLDA1	pleckstrin homology like domain family A member 1	-1.88	7.939	Down

144455	E2F7	E2F transcription factor 7	-2.925	2.239	Down
1848	DUSP6	dual specificity phosphatase 6	-2.936	15.604	Down
1.01E+08	POC1B-GALNT4	POC1B-GALNT4 readthrough	-1.795	11.023	Down
8693	GALNT4	polypeptide N-acetylgalactosaminyltransferase 4	-1.917	12.344	Down
7334	UBE2N	ubiquitin conjugating enzyme E2 N	-1.136	4.671	Down
6636	SNRPF	small nuclear ribonucleoprotein polypeptide F	-0.794	2.603	Down
1.03E+08	LOC102723340	uncharacterized LOC102723340	-0.569	1.636	Down
4048	LTA4H	leukotriene A4 hydrolase	-0.477	1.515	Down
7112	TMPO	thymopoietin	-0.387	1.897	Down
5250	SLC25A3	solute carrier family 25 member 3	-0.529	1.327	Down
23074	BLTP3B	bridge-like lipid transfer protein family member 3B	-1.043	10.73	Down
27340	UTP20	UTP20 small subunit processome component	-1.45	9.801	Down
55332	DRAM1	DNA damage regulated autophagy modulator 1	-0.916	1.408	Down
79023	NUP37	nucleoporin 37	-0.844	3.763	Down
7184	HSP90B1	heat shock protein 90 beta family member 1	-0.661	3.552	Down
6996	TDG	thymine DNA glycosylase	-0.51	3.008	Down
7296	TXNRD1	thioredoxin reductase 1	-1.216	6.557	Down
50515	CHST11	carbohydrate sulfotransferase 11	-0.815	5.084	Down
84102	SLC41A2	solute carrier family 41 member 2	-1.268	1.405	Down
55703	POLR3B	RNA polymerase III subunit B	-0.943	2.806	Down
11137	PWP1	PWP1 homolog, endonuclein	-0.579	2.737	Down
11153	FICD	FIC domain protein adenylyltransferase	-0.683	1.587	Down
1E+08	USP30-AS1	USP30 antisense RNA 1	-1.086	1.892	Down
83892	KCTD10	potassium channel tetramerization domain containing 10	-0.422	1.604	Down
326625	MMAB	metabolism of cobalamin associated B	-0.872	3.339	Down
4598	MVK	mevalonate kinase	-1.672	10.659	Down
488	ATP2A2	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2	-1.078	8.123	Down
51184	GPN3	GPN-loop GTPase 3	-0.718	2.142	Down

144715	RAD9B	RAD9 checkpoint clamp component B	-0.957	7.299	Down
160760	PPTC7	protein phosphatase targeting COQ7	-1.04	10.181	Down
5501	PPP1CC	protein phosphatase 1 catalytic subunit gamma	-0.545	3.376	Down
10019	SH2B3	SH2B adaptor protein 3	-1.049	3.45	Down
80018	NAA25	N-alpha-acetyltransferase 25, NatB auxiliary subunit	-0.539	1.574	Down
10906	TRAFD1	TRAF-type zinc finger domain containing 1	-1.146	2.169	Down
5781	PTPN11	protein tyrosine phosphatase non-receptor type 11	-0.828	7.177	Down
4940	OAS3	2'-5'-oligoadenylate synthetase 3	-1.923	1.434	Down
1840	DTX1	deltex E3 ubiquitin ligase 1	-1.449	1.813	Down
9904	RBM19	RNA binding motif protein 19	-1.009	1.415	Down
54997	TESC	tescalcin	-2.977	9.674	Down
5985	RFC5	replication factor C subunit 5	-0.497	2.935	Down
55884	WSB2	WD repeat and SOCS box containing 2	-0.826	4.59	Down
11021	RAB35	RAB35, member RAS oncogene family	-0.242	1.387	Down
10985	GCN1	GCN1 activator of EIF2AK4	-0.447	2.121	Down
1337	COX6A1	cytochrome c oxidase subunit 6A1	-0.8	1.706	Down
51499	TRIAP1	TP53 regulated inhibitor of apoptosis 1	-0.576	1.369	Down
283459	GATC	glutamyl-tRNA amidotransferase subunit C	-0.37	1.614	Down
8683	SRSF9	serine and arginine rich splicing factor 9	-0.844	7.35	Down
8655	DYNLL1	dynein light chain LC8-type 1	-0.989	3.165	Down
51367	POP5	POP5 homolog, ribonuclease P/MRP subunit	-0.756	1.883	Down
9761	MLEC	malectin	-0.349	1.507	Down
64897	C12orf43	chromosome 12 open reading frame 43	-0.562	2.119	Down
5027	P2RX7	purinergic receptor P2X 7	-1.925	5.934	Down
80196	RNF34	ring finger protein 34	-0.447	2.898	Down
5715	PSMD9	proteasome 26S subunit, non-ATPase 9	-0.67	2.771	Down
386653	IL31	interleukin 31	-8.492	2.886	Down
27198	HCAR1	hydroxycarboxylic acid receptor 1	-2.356	1.979	Down

8099	CDK2AP1	cyclin dependent kinase 2 associated protein 1	-2.22	21.54	Down
10959	TMED2	transmembrane p24 trafficking protein 2	-0.53	1.339	Down
1967	EIF2B1	eukaryotic translation initiation factor 2B subunit alpha	-0.507	1.427	Down
2967	GTF2H3	general transcription factor IIH subunit 3	-0.493	1.707	Down
23545	ATP6V0A2	ATPase H+ transporting V0 subunit a2	-0.958	5.875	Down
144348	ZNF664	zinc finger protein 664	-0.317	1.348	Down
949	SCARB1	scavenger receptor class B member 1	-1.074	3.504	Down
7316	UBC	ubiquitin C	-0.803	2.885	Down
57647	DHX37	DEAH-box helicase 37	-0.655	2.964	Down
5901	RAN	RAN, member RAS oncogene family	-1.376	8.272	Down
80324	PUS1	pseudouridine synthase 1	-1.047	9.184	Down
79050	NOC4L	nucleolar complex associated 4 homolog	-0.901	3.338	Down
192111	PGAM5	PGAM family member 5, mitochondrial serine/threonine protein phosphatase	-0.65	2.809	Down
23141	ANKLE2	ankyrin repeat and LEM domain containing 2	-0.599	5.316	Down
2706	GJB2	gap junction protein beta 2	-7.537	7.479	Down
10804	GJB6	gap junction protein beta 6	-2.533	3.655	Down
53342	IL17D	interleukin 17D	-1.846	4.761	Down
221150	SKA3	spindle and kinetochore associated complex subunit 3	-1.365	1.531	Down
221154	MICU2	mitochondrial calcium uptake 2	-0.558	2.416	Down
1.01E+08	LINC00621	long intergenic non-protein coding RNA 621	-1.681	1.397	Down
4285	MIPEP	mitochondrial intermediate peptidase	-1.059	6.731	Down
479	ATP12A	ATPase H+/K+ transporting non-gastric alpha2 subunit	-5.823	4.934	Down
9818	NUP58	nucleoporin 58	-0.891	6.781	Down
6049	RNF6	ring finger protein 6	-0.301	1.331	Down
219333	USP12	ubiquitin specific peptidase 12	-1.075	6.8	Down
51371	POMP	proteasome maturation protein	-1.445	9.503	Down
6541	SLC7A1	solute carrier family 7 member 1	-1.593	4.555	Down
171222	UBE2L5	ubiquitin conjugating enzyme E2 L5	-1.093	3.6	Down

10808	HSPH1	heat shock protein family H (Hsp110) member 1	-1.35	11.521	Down
1.08E+08	LOC107984551	uncharacterized LOC107984551	-6.39	3.874	Down
5983	RFC3	replication factor C subunit 3	-0.985	4.241	Down
5994	RFXAP	regulatory factor X associated protein	-1.089	4.355	Down
29880	ALG5	ALG5 dolichyl-phosphate beta-glucosyltransferase	-0.598	1.58	Down
11340	EXOSC8	exosome component 8	-0.943	5.238	Down
51569	UFM1	ubiquitin fold modifier 1	-0.6	7.45	Down
11193	WBP4	WW domain binding protein 4	-0.91	6.154	Down
8600	TNFSF11	TNF superfamily member 11	-2.185	5.729	Down
94240	EPSTI1	epithelial stromal interaction 1	-1.784	2.765	Down
144811	LACC1	laccase domain containing 1	-1.631	3.562	Down
26747	NUFIP1	nuclear FMR1 interacting protein 1	-0.501	1.556	Down
2963	GTF2F2	general transcription factor IIF subunit 2	-0.512	1.614	Down
3936	LCP1	lymphocyte cytosolic protein 1	-0.721	2.26	Down
55270	NUDT15	nudix hydrolase 15	-0.551	1.56	Down
5925	RB1	RB transcriptional corepressor 1	-0.514	3.065	Down
57105	CYSLTR2	cysteinyl leukotriene receptor 2	-1.415	3.477	Down
51131	PHF11	PHD finger protein 11	-0.496	1.31	Down
3839	KPNA3	karyopherin subunit alpha 3	-0.527	1.505	Down
57213	SPRYD7	SPRY domain containing 7	-0.81	4.605	Down
26512	INTS6	integrator complex subunit 6	-0.681	1.364	Down
144983	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1 like 2	-0.523	1.59	Down
10910	SUGT1	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone	-0.369	1.567	Down
440145	MZT1	mitotic spindle organizing protein 1	-0.513	2.458	Down
22894	DIS3	DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease	-0.455	2.281	Down
7347	UCHL3	ubiquitin C-terminal hydrolase L3	-1.133	3.25	Down
1.02E+08	LMO7-AS1	LMO7 antisense RNA 1	-0.958	1.938	Down
54602	NDFIP2	Nedd4 family interacting protein 2	-4.292	21.681	Down

2262	GPC5	glypican 5	-3.05	1.804	Down
10257	ABCC4	ATP binding cassette subfamily C member 4	-0.544	3.573	Down
5611	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3	-0.548	3.965	Down
3843	IPO5	importin 5	-0.637	3.713	Down
8428	STK24	serine/threonine kinase 24	-0.405	2.195	Down
1.01E+08	STK24-AS1	STK24 antisense RNA 1	-2.015	1.342	Down
1880	GPR183	G protein-coupled receptor 183	-0.739	1.911	Down
9375	TM9SF2	transmembrane 9 superfamily member 2	-0.498	2.05	Down
1.05E+08	PCCA-DT	PCCA divergent transcript	-1.503	1.359	Down
1.05E+08	LOC105370337	uncharacterized LOC105370337	-1.361	1.606	Down
93081	TEX30	testis expressed 30	-1.177	2.514	Down
79070	POGLUT2	protein O-glucosyltransferase 2	-1.76	2.659	Down
3981	LIG4	DNA ligase 4	-0.996	5.375	Down
79587	CARS2	cysteinyl-tRNA synthetase 2, mitochondrial	-0.692	2.315	Down
7027	TFDP1	transcription factor Dp-1	-1.092	14.075	Down
8881	CDC16	cell division cycle 16	-1.203	7.209	Down
1.05E+08	LOC105370384	uncharacterized LOC105370384	-1.149	2.295	Down
641455	POTEM	POTE ankyrin domain family member M	-1.605	7.45	Down
91875	TTC5	tetratricopeptide repeat domain 5	-0.543	2.081	Down
55644	OSGEP	O-sialoglycoprotein endopeptidase	-0.96	4.036	Down
4860	PNP	purine nucleoside phosphorylase	-0.684	1.766	Down
64745	METTL17	methyltransferase like 17	-0.6	3.525	Down
28691	TRAV2	T cell receptor alpha variable 2	-0.882	2.53	Down
28666	TRAV17	T cell receptor alpha variable 17	-0.56	2.159	Down
28659	TRAV24	T cell receptor alpha variable 24	-0.747	1.404	Down
28657	TRAV26-1	T cell receptor alpha variable 26-1	-0.583	1.387	Down
28656	TRAV26-2	T cell receptor alpha variable 26-2	-0.986	1.46	Down
28526	TRDC	T cell receptor delta constant	-0.613	1.604	Down

28743	TRAJ12	T cell receptor alpha joining 12	-1.128	1.412	Down
28750	TRAJ5	T cell receptor alpha joining 5	-1.127	1.737	Down
122704	MRPL52	mitochondrial ribosomal protein L52	-0.921	2.543	Down
1.01E+08	PRMT5-AS1	PRMT5 antisense RNA 1	-0.942	2.873	Down
10419	PRMT5	protein arginine methyltransferase 5	-1.025	4.01	Down
5693	PSMB5	proteasome 20S subunit beta 5	-1.192	7.298	Down
1.01E+08	BCL2L2-PABPN1	BCL2L2-PABPN1 readthrough	-0.512	3.377	Down
8106	PABPN1	poly(A) binding protein nuclear 1	-0.443	1.82	Down
79178	THTPA	thiamine triphosphatase	-0.469	1.732	Down
85446	ZFHX2	zinc finger homeobox 2	-1.69	3.879	Down
84502	JPH4	junctophilin 4	-5.87	3.368	Down
5106	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial	-1.272	5.553	Down
5720	PSME1	proteasome activator subunit 1	-1.365	5.093	Down
5721	PSME2	proteasome activator subunit 2	-2.463	8.906	Down
1.02E+08	MIR7703	microRNA 7703	-2.496	8.698	Down
10379	IRF9	interferon regulatory factor 9	-0.575	1.312	Down
9985	REC8	REC8 meiotic recombination protein	-0.86	2.657	Down
79711	IPO4	importin 4	-1.714	14.346	Down
29082	CHMP4A	charged multivesicular body protein 4A	-0.507	2.034	Down
5875	RABGGTA	Rab geranylgeranyltransferase subunit alpha	-0.38	1.317	Down
161424	NOP9	NOP9 nucleolar protein	-0.498	1.815	Down
643866	CBLN3	cerebellin 3 precursor	-1.609	4.635	Down
3002	GZMB	granzyme B	-4.694	5.493	Down
1073	CFL2	cofilin 2	-0.859	2.075	Down
1.12E+08	BAZ1A-AS1	BAZ1A antisense RNA 1	-0.964	2.625	Down
6729	SRP54	signal recognition particle 54	-0.895	5.6	Down
283635	FAM177A1	family with sequence similarity 177 member A1	-0.595	2.965	Down
1.02E+08	LOC101927178	uncharacterized LOC101927178	-0.639	1.999	Down

5687	PSMA6	proteasome 20S subunit alpha 6	-1.602	9.673	Down
4792	NFKBIA	NFKB inhibitor alpha	-2.229	9.886	Down
51562	MBIP	MAP3K12 binding inhibitory protein 1	-0.728	5.228	Down
4253	MIA2	MIA SH3 domain ER export factor 2	-0.36	1.451	Down
254170	FBXO33	F-box protein 33	-1.163	11.218	Down
55015	PRPF39	pre-mRNA processing factor 39	-0.382	1.748	Down
2287	FKBP3	FKBP prolyl isomerase 3	-0.618	3.383	Down
122769	LRR1	leucine rich repeat protein 1	-0.512	1.986	Down
4247	MGAT2	alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	-0.586	4.666	Down
5427	POLE2	DNA polymerase epsilon 2, accessory subunit	-1.592	5.221	Down
382	ARF6	ADP ribosylation factor 6	-0.786	9.866	Down
11183	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	-1.146	6.489	Down
81542	TMX1	thioredoxin related transmembrane protein 1	-0.594	2.225	Down
5706	PSMC6	proteasome 26S subunit, ATPase 6	-0.819	6.64	Down
64841	GNPNAT1	glucosamine-phosphate N-acetyltransferase 1	-0.803	3.737	Down
10979	FERMT2	FERM domain containing kindlin 2	-1.528	1.623	Down
80821	DDHD1	DDHD domain containing 1	-1.42	10.859	Down
2764	GMFB	glia maturation factor beta	-0.854	5.138	Down
23034	SAMD4A	sterile alpha motif domain containing 4A	-3.589	20.55	Down
2643	GCH1	GTP cyclohydrolase 1	-1.355	5.222	Down
11169	WDHD1	WD repeat and HMG-box DNA binding protein 1	-1.023	3.849	Down
122809	SOCS4	suppressor of cytokine signaling 4	-0.934	7.358	Down
93487	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1 like	-0.475	1.479	Down
5684	PSMA3	proteasome 20S subunit alpha 3	-1.772	11.855	Down
51339	DACT1	dishevelled binding antagonist of beta catenin 1	-0.891	1.699	Down
4331	MNAT1	MNAT1 component of CDK activating kinase	-0.909	3.553	Down
57570	TRMT5	tRNA methyltransferase 5	-0.578	2.57	Down
1.01E+08	HIF1A-AS1	HIF1A antisense RNA 1	-1.407	7.112	Down

3091	HIF1A	hypoxia inducible factor 1 subunit alpha	-1.414	8.936	Down
1.01E+08	HIF1A-AS2	HIF1A antisense RNA 2	-1.368	9.023	Down
6617	SNAPC1	small nuclear RNA activating complex polypeptide 1	-0.727	3.097	Down
4522	MTHFD1	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1	-1.203	10.291	Down
3306	HSPA2	heat shock protein family A (Hsp70) member 2	-2.449	5.838	Down
1965	EIF2S1	eukaryotic translation initiation factor 2 subunit alpha	-0.922	11.033	Down
2079	ERH	ERH mRNA splicing and mitosis factor	-0.864	3.194	Down
9766	SUSD6	sushi domain containing 6	-0.591	2.855	Down
10001	MED6	mediator complex subunit 6	-0.376	1.686	Down
122970	ACOT4	acyl-CoA thioesterase 4	-1.268	2.373	Down
83694	RPS6KL1	ribosomal protein S6 kinase like 1	-1.459	3.555	Down
8892	EIF2B2	eukaryotic translation initiation factor 2B subunit beta	-0.487	1.589	Down
122953	JDP2	Jun dimerization protein 2	-1.187	1.39	Down
1.05E+08	LOC105370572	uncharacterized LOC105370572	-3.176	2.707	Down
10538	BATF	basic leucine zipper ATF-like transcription factor	-2.159	5.763	Down
11161	ERG28	ergosterol biosynthesis 28 homolog	-0.805	2.804	Down
55668	GPATCH2L	G-patch domain containing 2 like	-0.574	2.366	Down
283578	TMED8	transmembrane p24 trafficking protein family member 8	-0.714	2.272	Down
10598	AHSA1	activator of HSP90 ATPase activity 1	-1.238	19.682	Down
81892	SLIRP	SRA stem-loop interacting RNA binding protein	-1.19	4.283	Down
8477	GPR65	G protein-coupled receptor 65	-0.548	1.47	Down
400236	FOXN3-AS1	FOXN3 antisense RNA 1	-1.686	3.725	Down
5700	PSMC1	proteasome 26S subunit, ATPase 1	-1.118	7.422	Down
55051	NRDE2	NRDE-2, necessary for RNA interference, domain containing	-0.582	5.256	Down
145567	TTC7B	tetratricopeptide repeat domain 7B	-1.983	5.081	Down
9252	RPS6KA5	ribosomal protein S6 kinase A5	-0.7	2.153	Down
8111	GPR68	G protein-coupled receptor 68	-1.379	5.148	Down
5641	LGMN	legumain	-1.459	3.604	Down

3705	ITPK1	inositol-tetrakisphosphate 1-kinase	-0.499	1.591	Down
51676	ASB2	ankyrin repeat and SOCS box containing 2	-3.548	25.7	Down
78990	OTUB2	OTU deubiquitinase, ubiquitin aldehyde binding 2	-2.319	7.628	Down
3429	IFI27	interferon alpha inducible protein 27	-2.854	2.842	Down
2009	EML1	EMAP like 1	-2.286	1.512	Down
7453	WARS1	tryptophanyl-tRNA synthetase 1	-2.962	7.5	Down
57596	BEGAIN	brain enriched guanylate kinase associated	-1.35	2.721	Down
3320	HSP90AA1	heat shock protein 90 alpha family class A member 1	-1.486	15.138	Down
7187	TRAF3	TNF receptor associated factor 3	-1.107	6.634	Down
1152	CKB	creatine kinase B	-2.401	4.625	Down
115708	TRMT61A	tRNA methyltransferase 61A	-0.618	2.029	Down
1.03E+08	LOC102723342	uncharacterized LOC102723342	-0.397	1.71	Down
207	AKT1	AKT serine/threonine kinase 1	-0.455	2.549	Down
55038	CDCA4	cell division cycle associated 4	-0.577	2.262	Down
3714	JAG2	jagged canonical Notch ligand 2	-1.066	2.042	Down
28473	IGHV1-3	immunoglobulin heavy variable 1-3	-1.904	1.405	Down
123606	NIPA1	NIPA magnesium transporter 1	-0.613	2.217	Down
1.05E+08	LOC105376707		-1.613	1.599	Down
57099	AVEN	apoptosis and caspase activation inhibitor	-1.029	6.152	Down
56851	EMC7	ER membrane protein complex subunit 7	-0.701	3.496	Down
79768	KATNBL1	katanin regulatory subunit B1 like 1	-0.915	4.932	Down
55505	NOP10	NOP10 ribonucleoprotein	-0.83	2.544	Down
283742	FAM98B	family with sequence similarity 98 member B	-0.687	2.468	Down
90427	BMF	Bcl2 modifying factor	-1.977	7.374	Down
90417	KNSTRN	kinetochore localized astrin (SPAG5) binding protein	-0.971	2.03	Down
5888	RAD51	RAD51 recombinase	-1.175	1.641	Down
55177	RMDN3	regulator of microtubule dynamics 3	-0.72	4.123	Down
6692	SPINT1	serine peptidase inhibitor, Kunitz type 1	-0.764	2.288	Down

171177	RHOV	ras homolog family member V	-3.592	1.563	Down
54567	DLL4	delta like canonical Notch ligand 4	-4.644	2.194	Down
79094	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1	-5.414	18.491	Down
11261	CHP1	calcineurin like EF-hand protein 1	-0.67	2.477	Down
11339	OIP5	Opa interacting protein 5	-2.018	3.918	Down
51103	NDUFAF1	NADH:ubiquinone oxidoreductase complex assembly factor 1	-1.047	8.028	Down
1.05E+08	LOC105370792	uncharacterized LOC105370792	-1.007	3.921	Down
30844	EHD4	EH domain containing 4	-1.375	8.138	Down
9836	LCMT2	leucine carboxyl methyltransferase 2	-0.648	3.984	Down
2923	PDIA3	protein disulfide isomerase family A member 3	-0.777	3.295	Down
25764	HYPK	huntingtin interacting protein K	-1.331	7.331	Down
4236	MFAP1	microfibril associated protein 1	-0.462	1.757	Down
79968	WDR76	WD repeat domain 76	-0.734	2.66	Down
8669	EIF3J	eukaryotic translation initiation factor 3 subunit J	-0.809	3.438	Down
567	B2M	beta-2-microglobulin	-0.652	1.53	Down
1.13E+08	MIR10393	microRNA 10393	-0.625	1.546	Down
1E+08	LOC100419583	ring finger protein 4 pseudogene	-0.451	1.411	Down
653381	SORD2P	sorbitol dehydrogenase 2, pseudogene	-0.942	1.943	Down
6652	SORD	sorbitol dehydrogenase	-0.697	1.907	Down
90525	SHF	Src homology 2 domain containing F	-1.346	2.993	Down
58472	SQOR	sulfide quinone oxidoreductase	-1.077	2.903	Down
50804	MYEF2	myelin expression factor 2	-0.84	1.636	Down
11001	SLC27A2	solute carrier family 27 member 2	-1.448	2.334	Down
2553	GABPB1	GA binding protein transcription factor subunit beta 1	-0.969	5.555	Down
84888	SPPL2A	signal peptide peptidase like 2A	-1.656	10.849	Down
5597	MAPK6	mitogen-activated protein kinase 6	-1.164	5.986	Down
10776	ARPP19	cAMP regulated phosphoprotein 19	-0.604	4.926	Down
664618	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene	-2.868	1.786	Down

2958	GTF2A2	general transcription factor IIA subunit 2	-0.842	2.633	Down
27023	FOXB1	forkhead box B1	-2.564	1.472	Down
145741	C2CD4A	C2 calcium dependent domain containing 4A	-4.727	3.723	Down
114294	LACTB	lactamase beta	-1.011	5.346	Down
51762	RAB8B	RAB8B, member RAS oncogene family	-0.801	2.075	Down
9768	PCLAF	PCNA clamp associated factor	-1.547	2.29	Down
9325	TRIP4	thyroid hormone receptor interactor 4	-0.414	1.475	Down
54962	TIPIN	TIMELESS interacting protein	-1.118	10.053	Down
55055	ZWILCH	zwilch kinetochore protein	-0.761	2.024	Down
79719	AAGAB	alpha and gamma adaptin binding protein	-0.793	6.428	Down
54982	CLN6	CLN6 transmembrane ER protein	-1.007	5.889	Down
8125	ANP32A	acidic nuclear phosphoprotein 32 family member A	-0.689	5.413	Down
5315	PKM	pyruvate kinase M1/2	-1.36	3.806	Down
27020	NPTN	neuroplastin	-0.427	4.182	Down
8482	SEMA7A	semaphorin 7A (John Milton Hagen blood group)	-3.058	7.798	Down
1543	CYP1A1	cytochrome P450 family 1 subfamily A member 1	-2.873	6.656	Down
9377	COX5A	cytochrome c oxidase subunit 5A	-0.853	3.713	Down
192683	SCAMP5	secretory carrier membrane protein 5	-1.061	1.374	Down
5780	PTPN9	protein tyrosine phosphatase non-receptor type 9	-0.489	2.203	Down
26263	FBXO22	F-box protein 22	-0.611	1.857	Down
2108	ETFA	electron transfer flavoprotein subunit alpha	-1.249	6.819	Down
79834	PEAK1	pseudopodium enriched atypical kinase 1	-0.563	1.429	Down
10518	CIB2	calcium and integrin binding family member 2	-0.997	2.71	Down
3419	IDH3A	isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha	-0.9	7.395	Down
23205	ACSBG1	acyl-CoA synthetase bubblegum family member 1	-0.839	4.765	Down
55466	DNAJA4	DnaJ heat shock protein family (Hsp40) member A4	-0.789	9.714	Down
80349	SKIC8	SKI8 subunit of superkiller complex	-0.641	2.364	Down
5685	PSMA4	proteasome 20S subunit alpha 4	-1.281	8.751	Down

1138	CHRNA5	cholinergic receptor nicotinic alpha 5 subunit	-1.686	4.548	Down
400410	ST20	suppressor of tumorigenicity 20	-0.918	1.967	Down
597	BCL2A1	BCL2 related protein A1	-1.726	3.529	Down
2184	FAH	fumarylacetoacetate hydrolase	-2.08	22.583	Down
26589	MRPL46	mitochondrial ribosomal protein L46	-0.723	1.762	Down
145864	HAPLN3	hyaluronan and proteoglycan link protein 3	-1.718	8.487	Down
641	BLM	BLM RecQ like helicase	-1.311	12.132	Down
5045	FURIN	furin, paired basic amino acid cleaving enzyme	-1.508	7.593	Down
7190	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene	-0.594	1.833	Down
22856	CHSY1	chondroitin sulfate synthase 1	-1.159	5.088	Down
55829	SELENOS	selenoprotein S	-0.618	2.403	Down
6627	SNRPA1	small nuclear ribonucleoprotein polypeptide A'	-0.887	8.228	Down
80213	TM2D3	TM2 domain containing 3	-1.268	7.226	Down
51728	POLR3K	RNA polymerase III subunit K	-0.765	2.181	Down
79622	SNRNP25	small nuclear ribonucleoprotein U11/U12 subunit 25	-1.052	3.329	Down
10573	MRPL28	mitochondrial ribosomal protein L28	-1.249	7.026	Down
339123	JMJD8	jumonji domain containing 8	-0.356	1.736	Down
79006	METRN	meteorin, glial cell differentiation regulator	-0.79	1.337	Down
65990	ANTKMT	adenine nucleotide translocase lysine methyltransferase	-1.582	4.128	Down
7329	UBE2I	ubiquitin conjugating enzyme E2 I	-0.443	2.58	Down
283951	UQCC4	ubiquinol-cytochrome c reductase complex assembly factor 4	-0.854	2.105	Down
90861	JPT2	Jupiter microtubule associated homolog 2	-0.533	1.655	Down
81889	FAHD1	fumarylacetoacetate hydrolase domain containing 1	-0.497	2.236	Down
51734	MSRB1	methionine sulfoxide reductase B1	-1.11	3.115	Down
10607	TBL3	transducin beta like 3	-1.105	6.135	Down
9143	SYNGR3	synaptogyrin 3	-1.923	4.857	Down
283869	NPW	neuropeptide W	-3.99	3.578	Down
64223	MLST8	MTOR associated protein, LST8 homolog	-0.505	1.391	Down

10921	RNPS1	RNA binding protein with serine rich domain 1	-0.455	3.699	Down
80178	TEDC2	tubulin epsilon and delta complex 2	-1.846	2.498	Down
10942	PRSS21	serine protease 21	-1.978	1.816	Down
9088	PKMYT1	protein kinase, membrane associated tyrosine/threonine 1	-1.727	1.767	Down
51330	TNFRSF12A	TNF receptor superfamily member 12A	-1.448	2.605	Down
79228	THOC6	THO complex subunit 6	-1.193	8.532	Down
146439	BICDL2	BICD family like cargo adaptor 2	-1.394	1.681	Down
9235	IL32	interleukin 32	-1.476	6.503	Down
10131	TRAP1	TNF receptor associated protein 1	-1.13	5.856	Down
51025	PAM16	presequence translocase associated motor 16	-0.918	2.716	Down
56052	ALG1	ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase	-0.438	1.419	Down
196483	EEF2KMT	eukaryotic elongation factor 2 lysine methyltransferase	-0.615	3.252	Down
18	ABAT	4-aminobutyrate aminotransferase	-0.488	1.86	Down
5373	PMM2	phosphomannomutase 2	-0.994	7.737	Down
4682	NUBP1	NUBP iron-sulfur cluster assembly factor 1, cytosolic	-0.492	1.591	Down
8651	SOCS1	suppressor of cytokine signaling 1	-2.772	8.292	Down
1.05E+08	RSL1D1-DT	RSL1D1 divergent transcript	-0.586	3.114	Down
2935	GSPT1	G1 to S phase transition 1	-0.414	1.819	Down
55313	CPPED1	calcineurin like phosphoesterase domain containing 1	-1.066	4.304	Down
23420	NOMO1	NODAL modulator 1	-0.495	1.386	Down
123879	DCUN1D3	defective in cullin neddylation 1 domain containing 3	-0.767	3.017	Down
387254	SLC7A5P2	solute carrier family 7 member 5 pseudogene 2	-1.333	2.536	Down
4706	NDUFAB1	NADH:ubiquinone oxidoreductase subunit AB1	-1.237	4.118	Down
400512	NSMCE1-DT	NSMCE1 divergent transcript	-4.568	6.271	Down
3566	IL4R	interleukin 4 receptor	-1.769	6.846	Down
728689	EIF3CL	eukaryotic translation initiation factor 3 subunit C like	-0.811	2.845	Down
8663	EIF3C	eukaryotic translation initiation factor 3 subunit C	-0.803	2.785	Down
7284	TUFM	Tu translation elongation factor, mitochondrial	-1.114	3.504	Down

1.01E+08	MIR4721	microRNA 4721	-1.158	4.067	Down
1.07E+08	BOLA2-SMG1P6	BOLA2-SMG1P6 readthrough	-0.726	1.674	Down
606724	LOC606724	coronin 1A pseudogene	-0.766	2.14	Down
552900	BOLA2	bolA family member 2	-0.878	1.787	Down
1.13E+08	LOC112694756	uncharaterized LOC112694756	-0.936	3.364	Down
226	ALDOA	aldolase, fructose-bisphosphate A	-0.925	3.343	Down
1.08E+08	CORO1A-AS1	CORO1A antisense RNA 1	-0.702	3.405	Down
11151	CORO1A	coronin 1A	-0.772	3.359	Down
654483	BOLA2B	bolA family member 2B	-1.119	2.206	Down
1731	SEPTIN1	septin 1	-0.424	1.741	Down
79077	DCTPP1	dCTP pyrophosphatase 1	-1.307	5.615	Down
64319	FBRS	fibrosin	-0.848	2.446	Down
6810	STX4	syntaxin 4	-0.423	1.712	Down
10295	BCKDK	branched chain keto acid dehydrogenase kinase	-0.641	2.879	Down
2521	FUS	FUS RNA binding protein	-1.733	20.462	Down
79798	ARMC5	armadillo repeat containing 5	-0.676	1.907	Down
10308	ZNF267	zinc finger protein 267	-1.638	4.958	Down
606551	UBE2MP1	ubiquitin conjugating enzyme E2 M pseudogene 1	-0.994	2.828	Down
79801	SHCBP1	SHC binding and spindle associated 1	-2.053	5.155	Down
23594	ORC6	origin recognition complex subunit 6	-1.382	2.823	Down
388272	C16orf87	chromosome 16 open reading frame 87	-0.614	3.044	Down
84706	GPT2	glutamic--pyruvic transaminase 2	-3.085	8.791	Down
10294	DNAJA2	DnaJ heat shock protein family (Hsp40) member A2	-0.544	2.598	Down
81831	NETO2	neuropilin and tolloid like 2	-2.167	6.924	Down
64127	NOD2	nucleotide binding oligomerization domain containing 2	-2.067	7.466	Down
55239	OGFOD1	2-oxoglutarate and iron dependent oxygenase domain containing 1	-0.337	1.366	Down
4502	MT2A	metallothionein 2A	-3.631	11.539	Down
4500	MT1L	metallothionein 1L, pseudogene	-4.083	3.27	Down

4493	MT1E	metallothionein 1E	-4.644	5.639	Down
4498	MT1JP	metallothionein 1J, pseudogene	-5.702	4.123	Down
4494	MT1F	metallothionein 1F	-2.106	5.463	Down
4495	MT1G	metallothionein 1G	-5.017	9.324	Down
4496	MT1H	metallothionein 1H	-4.911	2.888	Down
4501	MT1X	metallothionein 1X	-2.467	13.653	Down
9688	NUP93	nucleoporin 93	-0.967	5.587	Down
9709	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1	-1.304	12.476	Down
6361	CCL17	C-C motif chemokine ligand 17	-3.514	1.475	Down
55715	DOK4	docking protein 4	-0.789	2.618	Down
92922	CCDC102A	coiled-coil domain containing 102A	-1.216	5.466	Down
221188	ADGRG5	adhesion G protein-coupled receptor G5	-2.031	2.434	Down
1.05E+08	LOC105371291	uncharacterized LOC105371291	-3.052	1.83	Down
79650	USB1	U6 snRNA biogenesis phosphodiesterase 1	-0.712	6.37	Down
29105	CFAP20	cilia and flagella associated protein 20	-0.634	2.572	Down
64785	GINS3	GINS complex subunit 3	-1.179	6.508	Down
2806	GOT2	glutamic-oxaloacetic transaminase 2	-0.794	3.471	Down
6236	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator	-2.307	2.234	Down
51647	CIAO2B	cytosolic iron-sulfur assembly component 2B	-1.088	4.532	Down
283848	CES4A	carboxylesterase 4A	-1.529	1.566	Down
865	CBFB	core-binding factor subunit beta	-0.789	2.894	Down
1874	E2F4	E2F transcription factor 4	-0.72	10.077	Down
29100	TMEM208	transmembrane protein 208	-1.218	5.4	Down
29109	FHOD1	formin homology 2 domain containing 1	-0.848	2.581	Down
3291	HSD11B2	hydroxysteroid 11-beta dehydrogenase 2	-4.441	2.598	Down
65057	ACD	ACD shelterin complex subunit and telomerase recruitment factor	-0.601	3.412	Down
10204	NUTF2	nuclear transport factor 2	-1.125	4.926	Down
5699	PSMB10	proteasome 20S subunit beta 10	-1.406	7.257	Down

54920	DUS2	dihydrouridine synthase 2	-0.743	3.289	Down
999	CDH1	cadherin 1	-2.289	5.008	Down
84916	UTP4	UTP4 small subunit processome component	-1.015	4.028	Down
51388	NIP7	nucleolar pre-rRNA processing protein NIP7	-1.039	5.814	Down
80777	CYB5B	cytochrome b5 type B	-0.72	2.667	Down
10725	NFAT5	nuclear factor of activated T cells 5	-0.971	2.912	Down
16	AARS1	alanyl-tRNA synthetase 1	-0.795	1.885	Down
23450	SF3B3	splicing factor 3b subunit 3	-0.691	2.304	Down
23035	PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	-0.561	1.482	Down
1723	DHODH	dihydroorotate dehydrogenase (quinone)	-0.495	1.797	Down
5713	PSMD7	proteasome 26S subunit, non-ATPase 7	-1.044	9.999	Down
3735	KARS1	lysyl-tRNA synthetase 1	-0.793	3.341	Down
57687	VAT1L	vesicle amine transport 1 like	-3.564	3.976	Down
4094	MAF	MAF bZIP transcription factor	-1.43	2.867	Down
1.05E+08	LOC105371356	uncharacterized LOC105371356	-4.152	2.083	Down
55839	CENPN	centromere protein N	-1.096	6.613	Down
123775	C16orf46	chromosome 16 open reading frame 46	-1.452	2.581	Down
2653	GCSH	glycine cleavage system protein H	-0.973	2.74	Down
10200	MPHOSPH6	M-phase phosphoprotein 6	-1.522	5.773	Down
3281	HSBP1	heat shock factor binding protein 1	-0.48	1.399	Down
51659	GINS2	GINS complex subunit 2	-3.308	11.653	Down
10328	EMC8	ER membrane protein complex subunit 8	-0.603	1.88	Down
3394	IRF8	interferon regulatory factor 8	-2.589	6.469	Down
1E+08	LOC100129215	uncharacterized LOC100129215	-2.346	1.622	Down
8140	SLC7A5	solute carrier family 7 member 5	-2.825	9.486	Down
84627	ZNF469	zinc finger protein 469	-0.859	1.346	Down
348180	CTU2	cytosolic thiouridylase subunit 2	-1.239	11.366	Down
81620	CDT1	chromatin licensing and DNA replication factor 1	-2.457	7.997	Down

353	APRT	adenine phosphoribosyltransferase	-0.562	1.944	Down
9605	VPS9D1	VPS9 domain containing 1	-0.891	3.189	Down
1E+08	VPS9D1-AS1	VPS9D1 antisense RNA 1	-2.719	14.899	Down
10381	TUBB3	tubulin beta 3 class III	-1.386	1.881	Down
8447	DOC2B	double C2 domain beta	-4.549	2.395	Down
359845	RFLNB	refilin B	-1.231	9.569	Down
79850	TLCD3A	TLC domain containing 3A	-1.245	4.01	Down
7531	YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon	-1.022	2.944	Down
4641	MYO1C	myosin IC	-1.021	3.686	Down
5306	PITPNA	phosphatidylinositol transfer protein alpha	-0.531	4.052	Down
84981	MIR22HG	MIR22 host gene	-1.59	6.182	Down
407004	MIR22	microRNA 22	-1.815	1.698	Down
6117	RPA1	replication protein A1	-0.49	1.714	Down
146760	RTN4RL1	reticulon 4 receptor like 1	-2.896	7.195	Down
1801	DPH1	diphthamide biosynthesis 1	-0.371	1.365	Down
124641	OVCA2	OVCA2 serine hydrolase domain containing	-0.57	2.511	Down
3090	HIC1	HIC ZBTB transcriptional repressor 1	-2.347	10.873	Down
63826	SRR	serine racemase	-0.782	4.917	Down
55720	TSR1	TSR1 ribosome maturation factor	-1.134	11.372	Down
23277	CLUH	clustered mitochondria homolog	-1.02	3.886	Down
1497	CTNS	cystinosin, lysosomal cystine transporter	-0.684	4.061	Down
1.01E+08	P2RX5-TAX1BP3	P2RX5-TAX1BP3 readthrough (NMD candidate)	-0.775	4.891	Down
5026	P2RX5	purinergic receptor P2X 5	-2.297	8.862	Down
83903	HASPIN	histone H3 associated protein kinase	-1.506	2.192	Down
10514	MYBBP1A	MYB binding protein 1a	-0.708	1.614	Down
5694	PSMB6	proteasome 20S subunit beta 6	-1.519	17.016	Down
5338	PLD2	phospholipase D2	-0.635	1.316	Down
1E+08	C17orf107	chromosome 17 open reading frame 107	-1.41	1.611	Down

8402	SLC25A11	solute carrier family 25 member 11	-0.699	3.965	Down
5216	PFN1	profilin 1	-1.176	6.628	Down
4927	NUP88	nucleoporin 88	-0.755	5.895	Down
708	C1QBP	complement C1q binding protein	-0.964	2.352	Down
56919	DHX33	DEAH-box helicase 33	-0.419	2.964	Down
79003	MIS12	MIS12 kinetochore complex component	-0.433	1.632	Down
84817	TXNDC17	thioredoxin domain containing 17	-1.26	5.535	Down
1.01E+08	RNASEK-C17orf49	RNASEK-C17orf49 readthrough	-0.863	5.749	Down
124944	C17orf49	chromosome 17 open reading frame 49	-1.962	12.073	Down
1.01E+08	MIR497HG	mir-497-195 cluster host gene	-2.037	13.643	Down
255877	BCL6B	BCL6B transcription repressor	-4.376	2.631	Down
201232	SLC16A13	solute carrier family 16 member 13	-1.322	6.276	Down
162515	SLC16A11	solute carrier family 16 member 11	-2.357	3.136	Down
37	ACADVL	acyl-CoA dehydrogenase very long chain	-0.76	3.879	Down
23587	ELP5	elongator acetyltransferase complex subunit 5	-0.68	1.805	Down
1984	EIF5A	eukaryotic translation initiation factor 5A	-1.947	9.272	Down
2256	FGF11	fibroblast growth factor 11	-0.91	1.39	Down
26168	SENP3	SUMO specific peptidase 3	-0.661	3.033	Down
1.01E+08	SENP3-EIF4A1	SENP3-EIF4A1 readthrough (NMD candidate)	-1.259	7.148	Down
1973	EIF4A1	eukaryotic translation initiation factor 4A1	-1.32	7.141	Down
9526	MPDU1	mannose-P-dolichol utilization defect 1	-1.834	20.793	Down
7157	TP53	tumor protein p53	-1.132	7.301	Down
23135	KDM6B	lysine demethylase 6B	-0.892	1.827	Down
1.08E+08	LOC107987244	uncharacterized LOC107987244	-0.852	1.517	Down
92162	TMEM88	transmembrane protein 88	-2.623	2.919	Down
5198	PFAS	phosphoribosylformylglycinamidine synthase	-1.749	15.891	Down
399512	SLC25A35	solute carrier family 25 member 35	-0.545	3.367	Down
29098	RANGRF	RAN guanine nucleotide release factor	-0.541	2.888	Down

60528	ELAC2	elaC ribonuclease Z 2	-0.421	3.889	Down
201161	CENPV	centromere protein V	-1.467	4.112	Down
7314	UBB	ubiquitin B	-1.385	8.698	Down
10400	PEMT	phosphatidylethanolamine N-methyltransferase	-0.562	1.674	Down
6720	SREBF1	sterol regulatory element binding transcription factor 1	-0.852	1.891	Down
51030	TVP23B	trans-golgi network vesicle protein 23 homolog B	-0.478	1.487	Down
25979	DHRS7B	dehydrogenase/reductase 7B	-0.995	2.828	Down
5606	MAP2K3	mitogen-activated protein kinase kinase 3	-0.559	3.506	Down
23666	UBBP4	ubiquitin B pseudogene 4	-1.318	5.014	Down
8844	KSR1	kinase suppressor of ras 1	-1.526	4.725	Down
27346	TMEM97	transmembrane protein 97	-0.83	1.874	Down
7126	TNFAIP1	TNF alpha induced protein 1	-0.391	1.527	Down
26073	POLDIP2	DNA polymerase delta interacting protein 2	-0.823	6.245	Down
9094	UNC119	unc-119 lipid binding chaperone	-0.859	4.966	Down
9618	TRAF4	TNF receptor associated factor 4	-3.725	25.201	Down
26284	ERAL1	Era like 12S mitochondrial rRNA chaperone 1	-0.895	5.655	Down
124930	ANKRD13B	ankyrin repeat domain 13B	-1.861	3.498	Down
9527	GOSR1	golgi SNAP receptor complex member 1	-0.406	1.667	Down
55352	COPRS	coordinator of PRMT5 and differentiation stimulator	-1.556	14.058	Down
55813	UTP6	UTP6 small subunit processome component	-1.188	7.545	Down
64149	C17orf75	chromosome 17 open reading frame 75	-0.396	1.902	Down
693217	MIR632	microRNA 632	-1.56	10.53	Down
7756	ZNF207	zinc finger protein 207	-1.454	24.235	Down
5717	PSMD11	proteasome 26S subunit, non-ATPase 11	-1.249	27.738	Down
3980	LIG3	DNA ligase 3	-0.397	1.772	Down
163	AP2B1	adaptor related protein complex 2 subunit beta 1	-0.474	3.015	Down
6348	CCL3	C-C motif chemokine ligand 3	-3.152	1.794	Down
6351	CCL4	C-C motif chemokine ligand 4	-3.578	8.153	Down

9560	CCL4L2	C-C motif chemokine ligand 4 like 2	-3.126	2.708	Down
80179	MYO19	myosin XIX	-0.704	5.768	Down
284098	PIGW	phosphatidylinositol glycan anchor biosynthesis class W	-1.362	8.453	Down
31	ACACA	acetyl-CoA carboxylase alpha	-1.094	2.785	Down
11072	DUSP14	dual specificity phosphatase 14	-0.643	2.081	Down
11056	DDX52	DExD-box helicase 52	-0.307	1.6	Down
57636	ARHGAP23	Rho GTPase activating protein 23	-1.705	2.495	Down
1E+08	EPOP	elongin BC and polycomb repressive complex 2 associated protein	-3.588	8.422	Down
1.05E+08	LOC105371763	uncharacterized LOC105371763	-0.869	2.091	Down
284106	CISD3	CDGSH iron sulfur domain 3	-1.518	8.493	Down
7703	PCGF2	polycomb group ring finger 2	-1.405	3.832	Down
5691	PSMB3	proteasome 20S subunit beta 3	-1.346	5.193	Down
54883	CWC25	CWC25 spliceosome associated protein homolog	-0.609	2.812	Down
57125	PLXDC1	plexin domain containing 1	-1.127	1.458	Down
84299	MIEN1	migration and invasion enhancer 1	-0.654	1.604	Down
124626	ZPBP2	zona pellucida binding protein 2	-2.441	1.385	Down
5709	PSMD3	proteasome 26S subunit, non-ATPase 3	-1.273	14.167	Down
9862	MED24	mediator complex subunit 24	-0.545	2.924	Down
990	CDC6	cell division cycle 6	-2.108	4.418	Down
125111	GJD3	gap junction protein delta 3	-1.165	1.379	Down
84951	TNS4	tensin 4	-2.582	4.646	Down
47	ACLY	ATP citrate lyase	-0.628	6.406	Down
7266	DNAJC7	DnaJ heat shock protein family (Hsp40) member C7	-0.568	6.357	Down
23415	KCNH4	potassium voltage-gated channel subfamily H member 4	-3.079	3.743	Down
6776	STAT5A	signal transducer and activator of transcription 5A	-0.535	2.989	Down
535	ATP6V0A1	ATPase H+ transporting V0 subunit a1	-0.459	1.796	Down
7283	TUBG1	tubulin gamma 1	-1.688	12	Down
2826	CCR10	C-C motif chemokine receptor 10	-1.517	1.38	Down

8506	CNTNAP1	contactin associated protein 1	-1.359	3.947	Down
84313	VPS25	vacuolar protein sorting 25 homolog	-0.667	2.806	Down
10197	PSME3	proteasome activator subunit 3	-1.309	9.205	Down
1.01E+08	PTGES3L-AARSD1	PTGES3L-AARSD1 readthrough	-0.872	1.995	Down
80755	AARSD1	alanyl-tRNA synthetase domain containing 1	-0.885	2.023	Down
3430	IFI35	interferon induced protein 35	-1.727	5.041	Down
124801	LSM12	LSM12 homolog	-0.761	8.964	Down
92579	G6PC3	glucose-6-phosphatase catalytic subunit 3	-0.864	3.86	Down
78995	HROB	homologous recombination factor with OB-fold	-1.302	1.583	Down
51629	SLC25A39	solute carrier family 25 member 39	-1.145	11.769	Down
3674	ITGA2B	integrin subunit alpha 2b	-1.409	1.438	Down
9343	EFTUD2	elongation factor Tu GTP binding domain containing 2	-0.871	3.933	Down
9570	GOSR2	golgi SNAP receptor complex member 2	-0.654	4.118	Down
996	CDC27	cell division cycle 27	-0.298	1.757	Down
9520	NPEPPS	aminopeptidase puromycin sensitive	-0.276	1.597	Down
1.12E+08	KPNB1-DT	KPNB1 divergent transcript	-0.481	2.828	Down
3837	KPNB1	karyopherin subunit beta 1	-0.752	2.613	Down
9755	TBKBP1	TBK1 binding protein 1	-1.222	1.699	Down
30009	TBX21	T-box transcription factor 21	-1.823	6.568	Down
1.01E+08	SP2-AS1	SP2 antisense RNA 1	-1.464	1.603	Down
55163	PNPO	pyridoxamine 5'-phosphate oxidase	-0.789	4.175	Down
29916	SNX11	sorting nexin 11	-1.356	8.276	Down
3219	HOXB9	homeobox B9	-5.639	3.334	Down
10241	CALCOCO2	calcium binding and coiled-coil domain 2	-0.508	2.251	Down
516	ATP5MC1	ATP synthase membrane subunit c locus 1	-1.438	4.744	Down
65264	UBE2Z	ubiquitin conjugating enzyme E2 Z	-0.77	3.467	Down
11267	SNF8	SNF8 subunit of ESCRT-II	-0.753	5.015	Down
2793	GNGT2	G protein subunit gamma transducin 2	-0.994	3.717	Down

5245	PHB1	prohibitin 1	-1.476	7.753	Down
10237	SLC35B1	solute carrier family 35 member B1	-1.273	11.949	Down
51264	MRPL27	mitochondrial ribosomal protein L27	-1.276	6.369	Down
146956	EME1	essential meiotic structure-specific endonuclease 1	-0.827	2.379	Down
55379	LRRC59	leucine rich repeat containing 59	-1.009	5.13	Down
91369	ANKRD40	ankyrin repeat domain 40	-0.406	1.435	Down
654364	NME1-NME2	NME1-NME2 readthrough	-1.495	9.993	Down
4830	NME1	NME/NM23 nucleoside diphosphate kinase 1	-3.169	29.122	Down
4831	NME2	NME/NM23 nucleoside diphosphate kinase 2	-1.153	4.798	Down
1.05E+08	LINC02073	long intergenic non-protein coding RNA 2073	-2.773	1.811	Down
3131	HLF	HLF transcription factor, PAR bZIP family member	-1.715	1.83	Down
23531	MMD	monocyte to macrophage differentiation associated	-0.932	1.912	Down
58488	PCTP	phosphatidylcholine transfer protein	-0.566	1.343	Down
8526	DGKE	diacylglycerol kinase epsilon	-0.69	3.146	Down
7706	TRIM25	tripartite motif containing 25	-0.832	2.505	Down
51649	MRPS23	mitochondrial ribosomal protein S23	-0.927	4.964	Down
6426	SRSF1	serine and arginine rich splicing factor 1	-1.646	26.051	Down
124535	HSF5	heat shock transcription factor 5	-0.829	3.241	Down
5889	RAD51C	RAD51 paralog C	-0.671	1.343	Down
1213	CLTC	clathrin heavy chain	-0.712	3.05	Down
51651	PTRH2	peptidyl-tRNA hydrolase 2	-0.506	1.402	Down
81671	VMP1	vacuole membrane protein 1	-0.632	1.925	Down
57508	INTS2	integrator complex subunit 2	-0.49	1.697	Down
339175	METTL2A	methyltransferase 2A, methylcytidine	-0.907	6.099	Down
1.08E+08	LOC107985020	uncharacterized LOC107985020	-2.489	1.636	Down
9902	MRC2	mannose receptor C type 2	-1.507	2.915	Down
57003	CCDC47	coiled-coil domain containing 47	-0.654	4.807	Down
117246	FTSJ3	FtsJ RNA 2'-O-methyltransferase 3	-0.752	5.186	Down

5705	PSMC5	proteasome 26S subunit, ATPase 5	-0.958	6.478	Down
1655	DDX5	DEAD-box helicase 5	-0.856	17.744	Down
8787	RGS9	regulator of G protein signaling 9	-1.512	3.151	Down
5718	PSMD12	proteasome 26S subunit, non-ATPase 12	-1.074	6.248	Down
25926	NOL11	nucleolar protein 11	-0.502	1.656	Down
284018	C17orf58	chromosome 17 open reading frame 58	-2.056	5.846	Down
3838	KPNA2	karyopherin subunit alpha 2	-1.746	13.16	Down
55062	WIPI1	WD repeat domain, phosphoinositide interacting 1	-0.811	2.718	Down
30833	NT5C	5', 3'-nucleotidase, cytosolic	-0.798	2.484	Down
1.08E+08	LOC107985034	uncharacterized LOC107985034	-0.855	5.146	Down
51155	JPT1	Jupiter microtubule associated homolog 1	-0.63	2.825	Down
79902	NUP85	nucleoporin 85	-0.361	1.617	Down
51081	MRPS7	mitochondrial ribosomal protein S7	-1.085	3.811	Down
60386	SLC25A19	solute carrier family 25 member 19	-0.847	2.349	Down
3021	H3-3B	H3.3 histone B	-0.445	1.371	Down
6730	SRP68	signal recognition particle 68	-0.301	1.34	Down
8811	GALR2	galanin receptor 2	-4.239	16.641	Down
23210	JMJD6	jumonji domain containing 6, arginine demethylase and lysine hydroxylase	-0.576	1.796	Down
6427	SRSF2	serine and arginine rich splicing factor 2	-1.83	19.257	Down
693221	MIR636	microRNA 636	-1.924	7.783	Down
79157	MFSD11	major facilitator superfamily domain containing 11	-1.201	7.416	Down
9144	SYNGR2	synaptogyrin 2	-1.301	7.985	Down
7083	TK1	thymidine kinase 1	-1.513	2.805	Down
125061	AFMID	arylformamidase	-1.378	2.188	Down
3959	LGALS3BP	galectin 3 binding protein	-0.465	1.848	Down
114897	C1QTNF1	C1q and TNF related 1	-3.351	4.165	Down
9775	EIF4A3	eukaryotic translation initiation factor 4A3	-0.933	5.001	Down
57674	RNF213	ring finger protein 213	-1.151	2.234	Down

1E+08	RNF213-AS1	RNF213 antisense RNA 1	-1.1	1.667	Down
284184	NDUFAF8	NADH:ubiquinone oxidoreductase complex assembly factor 8	-0.949	3.29	Down
71	ACTG1	actin gamma 1	-1.322	5.05	Down
80233	FAAP100	FA core complex associated protein 100	-0.531	1.619	Down
55666	NPLOC4	NPL4 homolog, ubiquitin recognition factor	-0.638	5.083	Down
6182	MRPL12	mitochondrial ribosomal protein L12	-1.689	10.115	Down
1468	SLC25A10	solute carrier family 25 member 10	-2.451	29.122	Down
396	ARHGDIA	Rho GDP dissociation inhibitor alpha	-0.755	4.773	Down
10189	ALYREF	Aly/REF export factor	-1.501	9.661	Down
51529	ANAPC11	anaphase promoting complex subunit 11	-0.801	2.206	Down
4097	MAFG	MAF bZIP transcription factor G	-1.166	7.878	Down
92659	MILIP	MYC inducible lncRNA inactivating p53	-3.65	2.764	Down
5831	PYCR1	pyrroline-5-carboxylate reductase 1	-4.179	25.201	Down
201254	CENPX	centromere protein X	-0.685	2.131	Down
2873	GPS1	G protein pathway suppressor 1	-0.546	2.966	Down
64118	DUS1L	dihydrouridine synthase 1 like	-0.7	4.274	Down
2194	FASN	fatty acid synthase	-1.305	3.673	Down
9123	SLC16A3	solute carrier family 16 member 3	-0.781	2.071	Down
6398	SECTM1	secreted and transmembrane 1	-1.182	2.416	Down
400629	TEX19	testis expressed 19	-4.968	3.603	Down
403340	MGC70870	C-terminal binding protein 2 pseudogene	-0.886	3.072	Down
9097	USP14	ubiquitin specific peptidase 14	-0.8	5.311	Down
9984	THOC1	THO complex subunit 1	-0.477	3.057	Down
494514	TYMSOS	TYMS opposite strand RNA	-2.163	2.107	Down
7298	TYMS	thymidylate synthetase	-1.771	5.423	Down
55556	ENOSF1	enolase superfamily member 1	-0.686	1.39	Down
9663	LPIN2	lipin 2	-0.703	7.14	Down
727896	CHORDC1P4	CHORDC1 pseudogene 4	-1.131	4.411	Down

4729	NDUFV2	NADH:ubiquinone oxidoreductase core subunit V2	-1.347	8.385	Down
9989	PPP4R1	protein phosphatase 4 regulatory subunit 1	-0.471	2.438	Down
9218	VAPA	VAMP associated protein A	-0.476	1.371	Down
8774	NAPG	NSF attachment protein gamma	-0.586	3.197	Down
10939	AFG3L2	AFG3 like matrix AAA peptidase subunit 2	-0.352	2.156	Down
56907	SPIRE1	spire type actin nucleation factor 1	-1.123	4.728	Down
81929	SEH1L	SEH1 like nucleoporin	-1.444	12.493	Down
125228	FAM210A	family with sequence similarity 210 member A	-0.569	2.685	Down
6632	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide	-1.309	9.63	Down
5932	RBBP8	RB binding protein 8, endonuclease	-2.096	5.97	Down
85019	TMEM241	transmembrane protein 241	-0.909	3.949	Down
8780	RIOK3	RIO kinase 3	-0.336	1.595	Down
1.08E+08	LOC107985139		-0.694	4.382	Down
7572	ZNF24	zinc finger protein 24	-0.525	2.092	Down
125476	INO80C	INO80 complex subunit C	-0.716	2.265	Down
25800	SLC39A6	solute carrier family 39 member 6	-0.323	2.111	Down
1.02E+08	SETBP1-DT	SETBP1 divergent transcript	-2.891	1.787	Down
26040	SETBP1	SET binding protein 1	-2.647	1.88	Down
10449	ACAA2	acetyl-CoA acyltransferase 2	-0.275	1.481	Down
4200	ME2	malic enzyme 2	-0.862	9.309	Down
8932	MBD2	methyl-CpG binding domain protein 2	-0.532	2.768	Down
5874	RAB27B	RAB27B, member RAS oncogene family	-1.382	1.866	Down
90701	SEC11C	SEC11 homolog C, signal peptidase complex subunit	-1.229	3.581	Down
3998	LMAN1	lectin, mannose binding 1	-1.295	19.499	Down
5366	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	-3.13	19.793	Down
8792	TNFRSF11A	TNF receptor superfamily member 11a	-1.531	2.901	Down
10666	CD226	CD226 molecule	-1.697	11.498	Down
29090	TIMM21	translocase of inner mitochondrial membrane 21	-0.556	2.292	Down

1528	CYB5A	cytochrome b5 type A	-1.526	7.988	Down
55748	CNDP2	carnosine dipeptidase 2	-0.342	1.925	Down
10907	TXNL4A	thioredoxin like 4A	-0.673	3.089	Down
79863	RBFA	ribosome binding factor A	-0.463	1.356	Down
22850	ADNP2	ADNP homeobox 2	-0.849	7.365	Down
682	BSG	basigin (Ok blood group)	-0.451	2.405	Down
10272	FSTL3	follistatin like 3	-1.659	4.248	Down
5725	PTBP1	polypyrimidine tract binding protein 1	-0.403	1.526	Down
57418	WDR18	WD repeat domain 18	-1.336	4.733	Down
5434	POLR2E	RNA polymerase II, I and III subunit E	-0.747	3.162	Down
26528	DAZAP1	DAZ associated protein 1	-0.703	3.255	Down
53615	MBD3	methyl-CpG binding domain protein 3	-0.459	2.372	Down
113179	ADAT3	adenosine deaminase tRNA specific 3	-0.548	1.323	Down
126308	MOB3A	MOB kinase activator 3A	-0.618	1.843	Down
113177	IZUMO4	IZUMO family member 4	-2.597	9.119	Down
4946	OAZ1	ornithine decarboxylase antizyme 1	-0.562	1.369	Down
51690	LSM7	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.629	1.716	Down
26517	TIMM13	translocase of inner mitochondrial membrane 13	-1.002	3.486	Down
84823	LMNB2	lamin B2	-1.185	5.035	Down
4616	GADD45B	growth arrest and DNA damage inducible beta	-0.947	2.218	Down
7064	THOP1	thimet oligopeptidase 1	-1.21	6.98	Down
2769	GNA15	G protein subunit alpha 15	-1.819	2.356	Down
1.01E+08	GNA15-DT	GNA15 divergent transcript	-1.909	2.762	Down
56926	NCLN	nicalin	-0.739	3.545	Down
83475	DOHH	deoxyhypusine hydroxylase	-0.784	2.733	Down
1.05E+08	LOC105372245	uncharacterized LOC105372245	-1.033	1.507	Down
9546	APBA3	amyloid beta precursor protein binding family A member 3	-0.496	1.782	Down
116541	MRPL54	mitochondrial ribosomal protein L54	-0.884	1.611	Down

51548	SIRT6	sirtuin 6	-0.967	4.977	Down
79187	FSD1	fibronectin type III and SPRY domain containing 1	-2.64	8.811	Down
55620	STAP2	signal transducing adaptor family member 2	-3.233	8.27	Down
84954	MPND	MPN domain containing	-0.451	1.989	Down
56005	MYDGF	myeloid derived growth factor	-1.057	4.007	Down
91039	DPP9	dipeptidyl peptidase 9	-0.563	1.667	Down
148022	TICAM1	TIR domain containing adaptor molecule 1	-1.005	4.118	Down
29128	UHRF1	ubiquitin like with PHD and ring finger domains 1	-2.482	3.867	Down
125988	MICOS13	mitochondrial contact site and cristae organizing system subunit 13	-0.727	1.647	Down
9361	LONP1	lon peptidase 1, mitochondrial	-0.688	1.825	Down
56931	DUS3L	dihydrouridine synthase 3 like	-0.67	1.541	Down
8192	CLPP	caseinolytic mitochondrial matrix peptidase proteolytic subunit	-0.525	1.524	Down
8570	KHSRP	KH-type splicing regulatory protein	-0.488	2.255	Down
1.01E+08	MIR3940	microRNA 3940	-0.715	2.284	Down
10382	TUBB4A	tubulin beta 4A class IVa	-1.269	2.707	Down
8744	TNFSF9	TNF superfamily member 9	-1.832	3.01	Down
970	CD70	CD70 molecule	-3.356	4.948	Down
8740	TNFSF14	TNF superfamily member 14	-1.465	7.057	Down
9322	TRIP10	thyroid hormone receptor interactor 10	-1.38	1.475	Down
10045	SH2D3A	SH2 domain containing 3A	-0.57	3.218	Down
6813	STXBP2	syntaxin binding protein 2	-0.381	2.014	Down
404217	CTXN1	cortexin 1	-3.05	3.726	Down
10469	TIMM44	translocase of inner mitochondrial membrane 44	-0.809	3.441	Down
1994	ELAVL1	ELAV like RNA binding protein 1	-0.648	4.405	Down
79603	CERS4	ceramide synthase 4	-0.741	2.846	Down
51293	CD320	CD320 molecule	-0.849	3.572	Down
4701	NDUFA7	NADH:ubiquinone oxidoreductase subunit A7	-0.735	2.636	Down
4670	HNRNPM	heterogeneous nuclear ribonucleoprotein M	-1.067	11.828	Down

1.08E+08	LOC107983991	replaced by ID 105372267	-2.159	2.398	Down
54811	ZNF562	zinc finger protein 562	-0.563	2.477	Down
56342	PPAN	peter pan homolog	-0.918	4.873	Down
692312	PPAN-P2RY11	PPAN-P2RY11 readthrough	-0.487	2.006	Down
9294	S1PR2	sphingosine-1-phosphate receptor 2	-0.929	2.383	Down
51073	MRPL4	mitochondrial ribosomal protein L4	-1.312	11.465	Down
3383	ICAM1	intercellular adhesion molecule 1	-2.303	4.323	Down
112812	FDX2	ferredoxin 2	-0.879	2.281	Down
125950	RAVER1	ribonucleoprotein, PTB binding 1	-0.533	2.551	Down
11140	CDC37	cell division cycle 37, HSP90 cochaperone	-0.875	4.655	Down
1E+08	MIR1181	microRNA 1181	-0.8	3.219	Down
9817	KEAP1	kelch like ECH associated protein 1	-0.649	3.746	Down
3609	ILF3	interleukin enhancer binding factor 3	-0.61	1.803	Down
81890	QTRT1	queuine tRNA-ribosyltransferase catalytic subunit 1	-1.251	8.272	Down
11018	TMED1	transmembrane p24 trafficking protein 1	-0.807	3.666	Down
10498	CARM1	coactivator associated arginine methyltransferase 1	-0.536	3.647	Down
1.15E+08	LDLR-AS1	LDLR antisense RNA 1	-2.819	4.9	Down
3949	LDLR	low density lipoprotein receptor	-2.456	4.436	Down
374882	TMEM205	transmembrane protein 205	-0.765	3.18	Down
64748	PLPPR2	phospholipid phosphatase related 2	-1.274	3.767	Down
664709	HNRNPA1P10	heterogeneous nuclear ribonucleoprotein A1 pseudogene 10	-0.709	2.301	Down
388507	ZNF788P	zinc finger family member 788, pseudogene	-2.087	3.219	Down
439	GET3	guided entry of tail-anchored proteins factor 3, ATPase	-0.754	2.205	Down
3726	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit	-0.945	2.612	Down
7001	PRDX2	peroxiredoxin 2	-0.752	1.839	Down
10535	RNASEH2A	ribonuclease H2 subunit A	-0.68	1.763	Down
2193	FARSA	phenylalanyl-tRNA synthetase subunit alpha	-0.971	6.868	Down
1.06E+08	FARSA-AS1	FARSA antisense RNA 1	-1.071	3.248	Down

811	CALR	calreticulin	-1.112	9.556	Down
5886	RAD23A	RAD23 homolog A, nucleotide excision repair protein	-0.451	2.172	Down
90480	GADD45GIP1	GADD45G interacting protein 1	-0.648	2.151	Down
4784	NFIX	nuclear factor I X	-1.478	6.611	Down
1.05E+08	LOC105372282	uncharacterized LOC105372282	-0.65	1.714	Down
55621	TRMT1	tRNA methyltransferase 1	-0.856	5.828	Down
112939	NACC1	nucleus accumbens associated 1	-0.788	4.522	Down
9592	IER2	immediate early response 2	-0.425	1.503	Down
284454	MIR23AHG	miR-23a/27a/24-2 cluster host gene	-1.086	1.482	Down
9466	IL27RA	interleukin 27 receptor subunit alpha	-1.087	9.632	Down
10212	DDX39A	DExD-box helicase 39A	-1.739	25.305	Down
10755	GIPC1	GIPC PDZ domain containing family member 1	-0.712	2.233	Down
58525	WIZ	WIZ zinc finger	-0.536	1.517	Down
64926	RASAL3	RAS protein activator like 3	-0.574	1.915	Down
7171	TPM4	tropomyosin 4	-1.416	3.608	Down
4218	RAB8A	RAB8A, member RAS oncogene family	-0.42	2.118	Down
126549	ANKLE1	ankyrin repeat and LEM domain containing 1	-1.103	1.53	Down
79016	DDA1	DET1 and DDB1 associated 1	-0.315	1.35	Down
684	BST2	bone marrow stromal cell antigen 2	-1.05	3.761	Down
115098	CCDC124	coiled-coil domain containing 124	-1.216	6.169	Down
3594	IL12RB1	interleukin 12 receptor subunit beta 1	-1.249	8.563	Down
84769	MPV17L2	MPV17 mitochondrial inner membrane protein like 2	-0.88	4.73	Down
3727	JUND	JunD proto-oncogene, AP-1 transcription factor subunit	-0.5	1.302	Down
170463	SSBP4	single stranded DNA binding protein 4	-0.594	1.462	Down
54555	DDX49	DEAD-box helicase 49	-0.565	2.451	Down
93436	ARMC6	armadillo repeat containing 6	-1.469	13.863	Down
729991	BORCS8	BLOC-1 related complex subunit 8	-0.823	2.518	Down
51079	NDUFA13	NADH:ubiquinone oxidoreductase subunit A13	-0.815	2.017	Down

148113	CILP2	cartilage intermediate layer protein 2	-1.346	3.245	Down
1.05E+08	LOC105372309	uncharacterized LOC105372309	-4.032	3.017	Down
7386	UQCRFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	-0.619	1.691	Down
10775	POP4	POP4 homolog, ribonuclease P/MRP subunit	-0.527	2.554	Down
83636	C19orf12	chromosome 19 open reading frame 12	-0.54	6.222	Down
898	CCNE1	cyclin E1	-1.887	4.698	Down
9141	PDCD5	programmed cell death 5	-1.02	6.176	Down
390916	NUDT19	nudix hydrolase 19	-0.484	1.92	Down
85415	RHPN2	rhophilin Rho GTPase binding protein 2	-1.639	2.213	Down
1054	CEBPG	CCAAT enhancer binding protein gamma	-0.794	4.089	Down
5184	PEPD	peptidase D	-0.474	2.027	Down
84306	PDCD2L	programmed cell death 2 like	-1.335	4.063	Down
10054	UBA2	ubiquitin like modifier activating enzyme 2	-0.368	1.552	Down
2865	FFAR3	free fatty acid receptor 3	-6.076	8.547	Down
2866	GPR42	G protein-coupled receptor 42	-5.694	4.918	Down
1.01E+08	TMEM147-AS1	TMEM147 antisense RNA 1	-0.65	1.625	Down
10430	TMEM147	transmembrane protein 147	-0.78	2.424	Down
79171	RBM42	RNA binding motif protein 42	-0.501	1.868	Down
27033	ZBTB32	zinc finger and BTB domain containing 32	-5.15	11.378	Down
55851	PSENEN	presenilin enhancer, gamma-secretase subunit	-0.792	4.603	Down
84063	KIRREL2	kirre like nephrin family adhesion molecule 2	-1.676	1.6	Down
84807	NFKBID	NFKB inhibitor delta	-3.133	9.511	Down
1155	TBCB	tubulin folding cofactor B	-0.692	2.373	Down
826	CAPNS1	calpain small subunit 1	-0.416	2.235	Down
10653	SPINT2	serine peptidase inhibitor, Kunitz type 2	-1.985	12.632	Down
90522	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein	-0.862	4.578	Down
5714	PSMD8	proteasome 26S subunit, non-ATPase 8	-1.16	7.913	Down
115727	RASGRP4	RAS guanyl releasing protein 4	-1.673	4.205	Down

6261	RYR1	ryanodine receptor 1	-1.27	3.706	Down
3191	HNRNPL	heterogeneous nuclear ribonucleoprotein L	-0.614	5.254	Down
4793	NFKBIB	NFKB inhibitor beta	-0.994	3.106	Down
643669	CCER2	coiled-coil glutamate rich protein 2	-1.119	2.443	Down
54938	SARS2	seryl-tRNA synthetase 2, mitochondrial	-0.928	4.361	Down
6183	MRPS12	mitochondrial ribosomal protein S12	-0.851	3.01	Down
10298	PAK4	p21 (RAC1) activated kinase 4	-0.607	2.4	Down
92609	TIMM50	translocase of inner mitochondrial membrane 50	-1.115	13.596	Down
400696	LGALS17A	galectin 14 pseudogene	-4.079	6.607	Down
56891	LGALS14	galectin 14	-2.796	3.209	Down
1178	CLC	Charcot-Leyden crystal galectin	-2.657	1.564	Down
8857	FCGBP	Fc gamma binding protein	-1.047	1.304	Down
5704	PSMC4	proteasome 26S subunit, ATPase 4	-1.429	16.601	Down
29950	SERTAD1	SERTA domain containing 1	-1.01	4.891	Down
284325	ACTMAP	actin maturation protease	-0.408	1.556	Down
6626	SNRPA	small nuclear ribonucleoprotein polypeptide A	-1.245	9.46	Down
55101	DMAC2	distal membrane arm assembly component 2	-0.518	4.147	Down
5452	POU2F2	POU class 2 homeobox 2	-0.782	1.346	Down
5050	PAFAH1B3	platelet activating factor acetylhydrolase 1b catalytic subunit 3	-0.614	1.583	Down
126298	IRGQ	immunity related GTPase Q	-1.4	4.706	Down
56006	SMG9	SMG9 nonsense mediated mRNA decay factor	-0.667	1.707	Down
3783	KCNN4	potassium calcium-activated channel subfamily N member 4	-1.147	3.264	Down
10452	TOMM40	translocase of outer mitochondrial membrane 40	-1.622	14.555	Down
5971	RELB	RELB proto-oncogene, NF-kB subunit	-2.248	13.693	Down
10849	POLR1G	RNA polymerase I subunit G	-0.777	1.791	Down
2067	ERCC1	ERCC excision repair 1, endonuclease non-catalytic subunit	-0.984	8.61	Down
6253	RTN2	reticulon 2	-1.208	1.793	Down
7408	VASP	vasodilator stimulated phosphoprotein	-1.042	8.053	Down

24139	EML2	EMAP like 2	-1.326	6.518	Down
1E+08	EML2-AS1	EML2 antisense RNA 1	-2.16	7.778	Down
5536	PPP5C	protein phosphatase 5 catalytic subunit	-1.188	15.052	Down
1.05E+08	LOC105372426	uncharacterized LOC105372426	-1.083	2.966	Down
94235	GNG8	G protein subunit gamma 8	-5.104	4.57	Down
147906	DACT3	dishevelled binding antagonist of beta catenin 3	-3.942	8.234	Down
6510	SLC1A5	solute carrier family 1 member 5	-2.821	11.923	Down
10055	SAE1	SUMO1 activating enzyme subunit 1	-0.697	4.922	Down
11133	KPTN	kaptin, actin binding protein	-0.989	3.825	Down
1.01E+08	NAPA-AS1	NAPA antisense RNA 1	-0.404	1.625	Down
8775	NAPA	NSF attachment protein alpha	-0.439	4.233	Down
2906	GRIN2D	glutamate ionotropic receptor NMDA type subunit 2D	-1.86	1.391	Down
83743	GRWD1	glutamate rich WD repeat containing 1	-0.844	4.049	Down
56848	SPHK2	sphingosine kinase 2	-0.508	1.624	Down
587	BCAT2	branched chain amino acid transaminase 2	-1.037	7.356	Down
23645	PPP1R15A	protein phosphatase 1 regulatory subunit 15A	-1.55	3.046	Down
581	BAX	BCL2 associated X, apoptosis regulator	-0.774	2.813	Down
10856	RUVBL2	RuvB like AAA ATPase 2	-1.398	9.784	Down
6625	SNRNP70	small nuclear ribonucleoprotein U1 subunit 70	-1.046	2.647	Down
8541	PPFIA3	PTPRF interacting protein alpha 3	-1.301	3.125	Down
3276	PRMT1	protein arginine methyltransferase 1	-2.459	23.554	Down
259307	IL4I1	interleukin 4 induced 1	-2.61	9.661	Down
23636	NUP62	nucleoporin 62	-1.36	14.24	Down
22809	ATF5	activating transcription factor 5	-1.445	4.094	Down
1.01E+08	MIR4751	microRNA 4751	-1.274	2.287	Down
3748	KCNC3	potassium voltage-gated channel subfamily C member 3	-1.918	2.447	Down
9476	NAPSA	napsin A aspartic peptidase	-3.428	4.202	Down
7376	NR1H2	nuclear receptor subfamily 1 group H member 2	-0.438	1.44	Down

5424	POLD1	DNA polymerase delta 1, catalytic subunit	-0.718	3.078	Down
126119	JOSD2	Josephin domain containing 2	-0.544	1.38	Down
147645	VSIG10L	V-set and immunoglobulin domain containing 10 like	-2.605	5.219	Down
89790	SIGLEC10	sialic acid binding Ig like lectin 10	-1.703	1.318	Down
80110	ZNF614	zinc finger protein 614	-0.583	2.168	Down
5518	PPP2R1A	protein phosphatase 2 scaffold subunit Aalpha	-0.503	2.921	Down
26121	PRPF31	pre-mRNA processing factor 31	-0.597	5.591	Down
23640	HSPBP1	HSPA (Hsp70) binding protein 1	-1.29	9.679	Down
84446	BRSK1	BR serine/threonine kinase 1	-1.906	3.634	Down
27338	UBE2S	ubiquitin conjugating enzyme E2 S	-1.493	8.674	Down
79763	ISOC2	isochorismatase domain containing 2	-1.167	3.002	Down
11338	U2AF2	U2 small nuclear RNA auxiliary factor 2	-0.5	2.693	Down
27243	CHMP2A	charged multivesicular body protein 2A	-0.84	3.614	Down
9040	UBE2M	ubiquitin conjugating enzyme E2 M	-0.879	3.134	Down
80023	NRSN2	neurensin 2	-1.322	3.375	Down
1457	CSNK2A1	casein kinase 2 alpha 1	-0.528	2.582	Down
1.01E+08	FKBP1A-SDCBP2	FKBP1A-SDCBP2 readthrough (NMD candidate)	-0.964	5.592	Down
2280	FKBP1A	FKBP prolyl isomerase 1A	-1.055	7.25	Down
55968	NSFL1C	NSFL1 cofactor	-0.581	2.255	Down
6628	SNRPB	small nuclear ribonucleoprotein polypeptides B and B1	-1.123	6.229	Down
10528	NOP56	NOP56 ribonucleoprotein	-0.579	4.122	Down
3420	IDH3B	isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit beta	-0.667	4.732	Down
56265	CPXM1	carboxypeptidase X, M14 family member 1	-2.279	4.399	Down
60493	FASTKD5	FAST kinase domains 5	-0.408	1.987	Down
3704	ITPA	inosine triphosphatase	-0.741	2.638	Down
83959	SLC4A11	solute carrier family 4 member 11	-1.95	1.452	Down
54976	C20orf27	chromosome 20 open reading frame 27	-0.535	1.635	Down
9770	RASSF2	Ras association domain family member 2	-1.175	3.588	Down

5111	PCNA	proliferating cell nuclear antigen	-0.896	3.752	Down
1E+08	PCNA-AS1	PCNA antisense RNA 1	-0.856	2.702	Down
51605	TRMT6	tRNA methyltransferase 6 non-catalytic subunit	-0.663	3.821	Down
54675	CRLS1	cardiolipin synthase 1	-0.674	2.382	Down
51575	ESF1	ESF1 nucleolar pre-rRNA processing protein homolog	-0.72	3.597	Down
6629	SNRPB2	small nuclear ribonucleoprotein polypeptide B2	-0.905	4.958	Down
692086	SNORD17	small nucleolar RNA, C/D box 17	-1.802	2.556	Down
10621	POLR3F	RNA polymerase III subunit F	-0.571	2.06	Down
10741	RBBP9	RB binding protein 9, serine hydrolase	-0.832	4.145	Down
10483	SEC23B	SEC23 homolog B, COPII coat complex component	-1.011	5.485	Down
92675	DTD1	D-aminoacyl-tRNA deacylase 1	-0.839	3.194	Down
51126	NAA20	N-alpha-acetyltransferase 20, NatB catalytic subunit	-0.867	2.746	Down
29107	NXT1	nuclear transport factor 2 like export factor 1	-0.767	1.924	Down
9837	GINS1	GINS complex subunit 1	-2.111	7.28	Down
140838	NANP	N-acetylneuraminic acid phosphatase	-1.029	4.231	Down
598	BCL2L1	BCL2 like 1	-2.972	13.024	Down
1.03E+08	ABALON	apoptotic BCL2L1-antisense long non-coding RNA	-2.795	12.823	Down
22974	TPX2	TPX2 microtubule nucleation factor	-1.136	2.092	Down
5326	PLAGL2	PLAG1 like zinc finger 2	-1.554	18.006	Down
23509	POFUT1	protein O-fucosyltransferase 1	-0.424	3.437	Down
9371	KIF3B	kinesin family member 3B	-0.763	5.409	Down
149951	COMMD7	COMM domain containing 7	-0.495	1.418	Down
22919	MAPRE1	microtubule associated protein RP/EB family member 1	-1.026	3.77	Down
51654	CDK5RAP1	CDK5 regulatory subunit associated protein 1	-0.449	1.468	Down
1869	E2F1	E2F transcription factor 1	-1.318	2.522	Down
8894	EIF2S2	eukaryotic translation initiation factor 2 subunit beta	-0.831	2.56	Down
191	AHCY	adenosylhomocysteinase	-0.743	1.96	Down
84557	MAP1LC3A	microtubule associated protein 1 light chain 3 alpha	-1.634	3.042	Down

58476	TP53INP2	tumor protein p53 inducible nuclear protein 2	-1.231	2.42	Down
55902	ACSS2	acyl-CoA synthetase short chain family member 2	-0.519	1.319	Down
2937	GSS	glutathione synthetase	-0.344	1.46	Down
26133	TRPC4AP	transient receptor potential cation channel subfamily C member 4 associated protein	-0.362	2.388	Down
3692	EIF6	eukaryotic translation initiation factor 6	-1.104	7.702	Down
10137	RBM12	RNA binding motif protein 12	-0.746	2.833	Down
140823	ROMO1	reactive oxygen species modulator 1	-0.992	2.169	Down
60436	TGIF2	TGFB induced factor homeobox 2	-1.184	9.513	Down
1.01E+08	TGIF2-RAB5IF	TGIF2-RAB5IF readthrough	-0.903	5.031	Down
55969	RAB5IF	RAB5 interacting factor	-0.853	3.949	Down
56259	CTNNBL1	catenin beta like 1	-0.458	2.407	Down
7150	TOP1	DNA topoisomerase I	-0.728	3.527	Down
1.02E+08	PLCG1-AS1	PLCG1 antisense RNA 1	-0.556	1.626	Down
6431	SRSF6	serine and arginine rich splicing factor 6	-1.217	4.51	Down
4605	MYBL2	MYB proto-oncogene like 2	-2.301	2.805	Down
84969	TOX2	TOX high mobility group box family member 2	-0.845	1.646	Down
79183	TTPAL	alpha tocopherol transfer protein like	-0.737	1.494	Down
10953	TOMM34	translocase of outer mitochondrial membrane 34	-1.099	9.455	Down
6385	SDC4	syndecan 4	-2.166	4.923	Down
11065	UBE2C	ubiquitin conjugating enzyme E2 C	-1.49	2.191	Down
57727	NCOA5	nuclear receptor coactivator 5	-0.428	1.822	Down
8202	NCOA3	nuclear receptor coactivator 3	-1.186	3.445	Down
1434	CSE1L	chromosome segregation 1 like	-0.841	4.566	Down
5740	PTGIS	prostaglandin I2 synthase	-5.512	3.061	Down
9334	B4GALT5	beta-1,4-galactosyltransferase 5	-1.575	8.499	Down
8813	DPM1	dolichyl-phosphate mannosyltransferase subunit 1, catalytic	-0.455	1.419	Down
4773	NFATC2	nuclear factor of activated T cells 2	-0.538	1.95	Down
6790	AURKA	aurora kinase A	-1.321	5.844	Down

51497	NELFCD	negative elongation factor complex member C/D	-0.402	2.741	Down
51012	PRELID3B	PRELI domain containing 3B	-0.727	4.57	Down
5688	PSMA7	proteasome 20S subunit alpha 7	-1.162	4.771	Down
11047	ADRM1	ADRM1 26S proteasome ubiquitin receptor	-1.107	8.764	Down
1.05E+08	LOC105372707		-1.216	7.431	Down
28231	SLCO4A1	solute carrier organic anion transporter family member 4A1	-0.696	1.695	Down
11054	OGFR	opioid growth factor receptor	-0.389	1.311	Down
1917	EEF1A2	eukaryotic translation elongation factor 1 alpha 2	-1.277	1.539	Down
1.01E+08	RTEL1-TNFRSF6B	RTEL1-TNFRSF6B readthrough (NMD candidate)	-0.913	1.81	Down
51750	RTEL1	regulator of telomere elongation helicase 1	-0.981	2.315	Down
54963	UCKL1	uridine-cytidine kinase 1 like 1	-0.523	1.809	Down
140700	SAMD10	sterile alpha motif domain containing 10	-1.153	3.276	Down
1.03E+08	LOC102724159	periodic tryptophan protein 2 homolog	-0.919	5.926	Down
1.03E+08	LOC102724428	salt inducible kinase 1B (putative)	-1.21	3.144	Down
1.03E+08	LOC102724560	cystathionine beta-synthase like	-3.617	4.239	Down
1.03E+08	LOC102724594	U2 small nuclear RNA auxiliary factor 1 like 5	-0.73	7.664	Down
6782	HSPA13	heat shock protein family A (Hsp70) member 13	-0.653	1.838	Down
64092	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1	-0.811	1.892	Down
10950	BTG3	BTG anti-proliferation factor 3	-0.535	1.839	Down
1.05E+08	LINC01684	long intergenic non-protein coding RNA 1684	-2.005	1.405	Down
54072	LINC00158	long intergenic non-protein coding RNA 158	-3.714	3.287	Down
114614	MIR155HG	MIR155 host gene	-6.229	12.412	Down
406947	MIR155	microRNA 155	-6.256	10.838	Down
54148	MRPL39	mitochondrial ribosomal protein L39	-0.79	6.87	Down
10694	CCT8	chaperonin containing TCP1 subunit 8	-0.88	5.907	Down
6647	SOD1	superoxide dismutase 1	-0.505	1.416	Down
56246	MRAP	melanocortin 2 receptor accessory protein	-0.75	1.329	Down
9875	URB1	URB1 ribosome biogenesis homolog	-0.769	3.677	Down

1.1E+08	CFAP298-TCP10L	CFAP298-TCP10L readthrough	-0.583	2.634	Down
56683	CFAP298	cilia and flagella associated protein 298	-0.524	2.213	Down
2618	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	-1.165	8.348	Down
29980	DONSON	DNA replication fork stabilization factor DONSON	-0.775	3.093	Down
54102	CLIC6	chloride intracellular channel 6	-1.69	1.786	Down
861	RUNX1	RUNX family transcription factor 1	-0.537	2.113	Down
1E+08	CBR1-AS1	CBR1 antisense RNA 1	-0.567	1.486	Down
873	CBR1	carbonyl reductase 1	-0.538	1.931	Down
8208	CHAF1B	chromatin assembly factor 1 subunit B	-1.253	4.194	Down
2114	ETS2	ETS proto-oncogene 2, transcription factor	-0.447	1.556	Down
8624	PSMG1	proteasome assembly chaperone 1	-0.749	4.474	Down
3150	HMGN1	high mobility group nucleosome binding domain 1	-0.435	1.643	Down
49854	ZBTB21	zinc finger and BTB domain containing 21	-0.787	7.774	Down
64699	TMPRSS3	transmembrane serine protease 3	-1.919	3.317	Down
54020	SLC37A1	solute carrier family 37 member 1	-1.171	4.116	Down
1.08E+08	LOC107987299	uncharacterized LOC107987299	-1.119	1.562	Down
10785	WDR4	WD repeat domain 4	-1.701	14.251	Down
875	CBS	cystathionine beta-synthase	-3.485	4.267	Down
7307	U2AF1	U2 small nuclear RNA auxiliary factor 1	-0.724	7.593	Down
150094	SIK1	salt inducible kinase 1	-1.247	2.73	Down
8568	RRP1	ribosomal RNA processing 1	-0.75	4.664	Down
56894	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3	-0.692	3.188	Down
5822	PWP2	PWP2 small subunit processome component	-0.839	4.033	Down
7327	UBE2G2	ubiquitin conjugating enzyme E2 G2	-0.458	2.666	Down
6612	SUMO3	small ubiquitin like modifier 3	-0.684	3.867	Down
84536	LINC01547	long intergenic non-protein coding RNA 1547	-1.444	2.441	Down
85395	SLX9	SLX9 ribosome biogenesis factor	-0.797	4.655	Down

6573	SLC19A1	solute carrier family 19 member 1	-0.803	2.405	Down
57553	MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3	-1.329	2.006	Down
11274	USP18	ubiquitin specific peptidase 18	-1.072	1.326	Down
2679	GGT3P	gamma-glutamyltransferase 3 pseudogene	-1.923	1.88	Down
25786	DGCR11	DiGeorge syndrome critical region gene 11	-1.801	2.716	Down
7353	UFD1	ubiquitin recognition factor in ER associated degradation 1	-0.53	1.496	Down
8318	CDC45	cell division cycle 45	-3.18	6.252	Down
54487	DGCR8	DGCR8 microprocessor complex subunit	-0.764	6.946	Down
1E+08	MIR1306	microRNA 1306	-0.982	2.032	Down
5902	RANBP1	RAN binding protein 1	-1.623	16.587	Down
373856	USP41	ubiquitin specific peptidase 41	-1.503	1.491	Down
728441	GGT2P	gamma-glutamyltransferase 2, pseudogene	-1.998	1.807	Down
7332	UBE2L3	ubiquitin conjugating enzyme E2 L3	-0.521	2.503	Down
23753	SDF2L1	stromal cell derived factor 2 like 1	-1.043	4.234	Down
96610	BMS1P20	BMS1 pseudogene 20	-0.535	3.13	Down
91227	GGTLC2	gamma-glutamyltransferase light chain 2	-2.107	2.711	Down
2781	GNAZ	G protein subunit alpha z	-0.852	1.348	Down
6598	SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	-0.745	4.085	Down
6634	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide	-0.339	1.883	Down
2678	GGT1	gamma-glutamyltransferase 1	-1.991	4.049	Down
7152	TOP1P2	DNA topoisomerase I pseudogene 2	-1.539	1.411	Down
57168	ASPHD2	aspartate beta-hydroxylase domain containing 2	-1.396	16.752	Down
23760	PITPNB	phosphatidylinositol transfer protein beta	-0.874	7.637	Down
7494	XBP1	X-box binding protein 1	-0.856	2.403	Down
2130	EWSR1	EWS RNA binding protein 1	-1.15	24.428	Down
162	AP1B1	adaptor related protein complex 1 subunit beta 1	-0.761	6.2	Down
4744	NEFH	neurofilament heavy chain	-1.938	1.965	Down
8563	THOC5	THO complex subunit 5	-0.415	2.52	Down

1.11E+08	LIF-AS1	LIF antisense RNA 1	-4.977	2.582	Down
3976	LIF	LIF interleukin 6 family cytokine	-6.535	13.744	Down
91370	LIF-AS2	LIF antisense RNA 2	-6.226	12.799	Down
5008	OSM	oncostatin M	-3.725	5.239	Down
23481	PES1	pescadillo ribosomal biogenesis factor 1	-1.078	9.694	Down
4733	DRG1	developmentally regulated GTP binding protein 1	-0.713	3.012	Down
23761	PISD	phosphatidylserine decarboxylase	-0.424	2.412	Down
51493	RTCB	RNA 2',3'-cyclic phosphate and 5'-OH ligase	-0.684	3.791	Down
3162	HMOX1	heme oxygenase 1	-2.081	4.7	Down
4174	MCM5	minichromosome maintenance complex component 5	-0.802	5.411	Down
80830	APOL6	apolipoprotein L6	-1.245	5.335	Down
80833	APOL3	apolipoprotein L3	-0.797	4.917	Down
23780	APOL2	apolipoprotein L2	-1.3	4.647	Down
8542	APOL1	apolipoprotein L1	-1.872	2.566	Down
1.12E+08	LOC112268296		-1.975	3.097	Down
7263	TST	thiosulfate sulfurtransferase	-1.737	3.445	Down
79734	KCTD17	potassium channel tetramerization domain containing 17	-0.829	2.002	Down
164656	TMPRSS6	transmembrane serine protease 6	-3.178	5.093	Down
3560	IL2RB	interleukin 2 receptor subunit beta	-1.573	5.044	Down
5880	RAC2	Rac family small GTPase 2	-0.468	2.746	Down
57026	PDXP	pyridoxal phosphatase	-0.587	2.236	Down
79159	NOL12	nucleolar protein 12	-0.776	4.202	Down
9463	PICK1	protein interacting with PRKCA 1	-0.574	1.818	Down
23764	MAFF	MAF bZIP transcription factor F	-1.124	1.68	Down
56993	TOMM22	translocase of outer mitochondrial membrane 22	-1.381	4.731	Down
23466	CBX6	chromobox 6	-0.503	1.943	Down
9582	APOBEC3B	apolipoprotein B mRNA editing enzyme catalytic subunit 3B	-1.335	2.053	Down
27350	APOBEC3C	apolipoprotein B mRNA editing enzyme catalytic subunit 3C	-0.885	5.628	Down

200316	APOBEC3F	apolipoprotein B mRNA editing enzyme catalytic subunit 3F	-0.79	2.629	Down
60489	APOBEC3G	apolipoprotein B mRNA editing enzyme catalytic subunit 3G	-1.01	1.485	Down
1.02E+08	LOC101927202	uncharacterized LOC101927202	-2.607	2.013	Down
113828	FAM83F	family with sequence similarity 83 member F	-3.167	5.044	Down
10478	SLC25A17	solute carrier family 25 member 17	-0.63	1.4	Down
9978	RBX1	ring-box 1	-1.01	3.145	Down
1.07E+08	SNORD140	small nucleolar RNA, C/D box 140	-1.493	4.513	Down
10766	TOB2	transducer of ERBB2, 2	-0.748	2.75	Down
84844	PHF5A	PHD finger protein 5A	-0.703	2.134	Down
50	ACO2	aconitase 2	-0.619	6.452	Down
171568	POLR3H	RNA polymerase III subunit H	-0.633	3.751	Down
27351	DESI1	desumoylating isopeptidase 1	-1.765	39.268	Down
2547	XRCC6	X-ray repair cross complementing 6	-0.842	4.321	Down
6721	SREBF2	sterol regulatory element binding transcription factor 2	-0.952	5.053	Down
440829	SHISA8	shisa family member 8	-0.902	4.512	Down
55964	SEPTIN3	septin 3	-1.809	1.818	Down
4668	NAGA	alpha-N-acetylgalactosaminidase	-0.461	3.612	Down
4700	NDUFA6	NADH:ubiquinone oxidoreductase subunit A6	-0.761	2.182	Down
388906	OGFRP1	opioid growth factor receptor pseudogene 1	-1.044	1.656	Down
27341	RRP7A	ribosomal RNA processing 7 homolog A	-0.654	1.468	Down
91695	RRP7BP	ribosomal RNA processing 7 homolog B, pseudogene	-0.714	2.076	Down
26286	ARFGAP3	ADP ribosylation factor GTPase activating protein 3	-0.463	1.607	Down
638	BIK	BCL2 interacting killer	-0.879	1.414	Down
23170	TTLL12	tubulin tyrosine ligase like 12	-0.81	2.222	Down
25813	SAMM50	SAMM50 sorting and assembly machinery component	-0.604	1.995	Down
29780	PARVB	parvin beta	-0.92	2.096	Down
55020	TTC38	tetratricopeptide repeat domain 38	-0.628	2.678	Down
79174	CRELD2	cysteine rich with EGF like domains 2	-1.427	8.707	Down

1.08E+08	LOC107985553		-1.661	3.155	Down
415116	PIM3	Pim-3 proto-oncogene, serine/threonine kinase	-1.13	2.598	Down
1.02E+08	MIR6821	microRNA 6821	-1.896	1.703	Down
56666	PANX2	pannexin 2	-3.669	12.514	Down
5600	MAPK11	mitogen-activated protein kinase 11	-1.805	2.707	Down
9997	SCO2	synthesis of cytochrome C oxidase 2	-1.333	2.417	Down
1890	TYMP	thymidine phosphorylase	-2.152	1.619	Down
440836	ODF3B	outer dense fiber of sperm tails 3B	-1.566	1.518	Down
1.05E+08	KLHDC7B-DT	KLHDC7B divergent transcript	-2.046	1.62	Down
1.03E+08	LOC102724563	transcription factor E2F6-like	-0.754	1.841	Down
8623	ASMTL	acetylserotonin O-methyltransferase like	-0.84	3.108	Down
412	STS	steroid sulfatase	-0.947	1.977	Down
3052	HCCS	holocytochrome c synthase	-0.91	6.313	Down
5931	RBBP7	RB binding protein 7, chromatin remodeling factor	-0.524	1.852	Down
4810	NHS	NHS actin remodeling regulator	-4.304	4.55	Down
10389	SCML2	Scm polycomb group protein like 2	-1.548	6.979	Down
5160	PDHA1	pyruvate dehydrogenase E1 subunit alpha 1	-0.592	3.828	Down
6611	SMS	spermine synthase	-1.279	10.282	Down
10549	PRDX4	peroxiredoxin 4	-1.455	4.035	Down
23597	ACOT9	acyl-CoA thioesterase 9	-0.75	2.53	Down
79135	APOO	apolipoprotein O	-1.009	2.802	Down
5422	POLA1	DNA polymerase alpha 1, catalytic subunit	-0.719	2.262	Down
80231	TASL	TLR adaptor interacting with endolysosomal SLC15A4	-1.11	1.632	Down
2710	GK	glycerol kinase	-1.253	3.15	Down
1756	DMD	dystrophin	-2.031	1.666	Down
6990	DYNLT3	dynein light chain Tctex-type 3	-0.463	2.259	Down
4128	MAOA	monoamine oxidase A	-4.11	5.426	Down
2002	ELK1	ETS transcription factor ELK1	-0.834	8.875	Down

92745	SLC38A5	solute carrier family 38 member 5	-2.369	43.682	Down
24140	FTSJ1	FtsJ RNA 2'-O-methyltransferase 1	-0.553	1.718	Down
10682	EBP	EBP cholestenol delta-isomerase	-1.006	6.016	Down
5935	RBM3	RNA binding motif protein 3	-1.107	5.371	Down
11040	PIM2	Pim-2 proto-oncogene, serine/threonine kinase	-1.293	2.376	Down
55593	OTUD5	OTU deubiquitinase 5	-0.704	9.807	Down
7030	TFE3	transcription factor binding to IGHM enhancer 3	-0.96	3.799	Down
6855	SYP	synaptophysin	-3.816	12.53	Down
28952	CCDC22	coiled-coil domain containing 22	-0.508	2.457	Down
50943	FOXP3	forkhead box P3	-1.151	1.688	Down
1.03E+08	KANTR	KANTR integral membrane protein	-1.088	3.359	Down
3028	HSD17B10	hydroxysteroid 17-beta dehydrogenase 10	-1.122	8.23	Down
10075	HUWE1	HECT, UBA and WWE domain containing E3 ubiquitin protein ligase 1	-1.781	7.864	Down
81887	LAS1L	LAS1 like ribosome biogenesis factor	-0.468	1.92	Down
286451	YIPF6	Yip1 domain family member 6	-0.403	1.671	Down
29934	SNX12	sorting nexin 12	-0.6	2.25	Down
3561	IL2RG	interleukin 2 receptor subunit gamma	-0.651	1.958	Down
55869	HDAC8	histone deacetylase 8	-0.958	5.036	Down
5255	PHKA1	phosphorylase kinase regulatory subunit alpha 1	-3.59	8.262	Down
51260	PBDC1	polysaccharide biosynthesis domain containing 1	-0.447	1.932	Down
84061	MAGT1	magnesium transporter 1	-0.42	1.467	Down
1349	COX7B	cytochrome c oxidase subunit 7B	-0.703	1.45	Down
441531	PGAM4	phosphoglycerate mutase family member 4	-1.746	7.16	Down
1.08E+08	LOC107985690	replaced by ID 84636	-0.857	1.919	Down
84636	GPR174	G protein-coupled receptor 174	-1.134	3.549	Down
139324	HDX	highly divergent homeobox	-2.543	2.493	Down
1478	CSTF2	cleavage stimulation factor subunit 2	-1.334	19.149	Down
1678	TIMM8A	translocase of inner mitochondrial membrane 8A	-0.689	3.314	Down

2717	GLA	galactosidase alpha	-0.681	1.682	Down
79868	ALG13	ALG13 UDP-N-acetylglucosaminyltransferase subunit	-0.543	1.666	Down
203427	SLC25A43	solute carrier family 25 member 43	-1.237	5.555	Down
1E+08	SLC25A5-AS1	SLC25A5 antisense RNA 1	-0.691	2.3	Down
292	SLC25A5	solute carrier family 25 member 5	-0.916	3.048	Down
7319	UBE2A	ubiquitin conjugating enzyme E2 A	-0.927	9.621	Down
28985	MCTS1	MCTS1 re-initiation and release factor	-0.635	1.915	Down
29071	C1GALT1C1	C1GALT1 specific chaperone 1	-0.74	1.825	Down
4952	OCRL	OCRL inositol polyphosphate-5-phosphatase	-0.691	1.415	Down
63035	BCORL1	BCL6 corepressor like 1	-0.683	2.992	Down
57826	RAP2C	RAP2C, member of RAS oncogene family	-0.808	4.97	Down
3251	HPRT1	hypoxanthine phosphoribosyltransferase 1	-0.868	2.42	Down
8933	RTL8C	retrotransposon Gag like 8C	-0.388	1.9	Down
1E+08	LINC00892	long intergenic non-protein coding RNA 892	-2.404	8.741	Down
959	CD40LG	CD40 ligand	-2.083	8.282	Down
27316	RBMX	RNA binding motif protein X-linked	-0.527	5.063	Down
2334	AFF2	ALF transcription elongation factor 2	-1.801	4.746	Down
10046	MAMLD1	mastermind like domain containing 1	-2.553	10.9	Down
4534	MTM1	myotubularin 1	-0.414	2.073	Down
8776	MTMR1	myotubularin related protein 1	-0.414	2.928	Down
3149	HMGB3	high mobility group box 3	-1.466	5.988	Down
50814	NSDHL	NAD(P) dependent steroid dehydrogenase-like	-0.924	4.195	Down
139735	ZFP92	ZFP92 zinc finger protein	-1.138	3.062	Down
55559	HAUS7	HAUS augmin like complex subunit 7	-0.498	2.424	Down
8260	NAA10	N-alpha-acetyltransferase 10, NatA catalytic subunit	-1.159	8.013	Down
3054	HCFC1	host cell factor C1	-0.667	1.411	Down
3654	IRAK1	interleukin 1 receptor associated kinase 1	-0.813	3.488	Down
2010	EMD	emerin	-0.431	1.394	Down

2664	GDI1	GDP dissociation inhibitor 1	-0.374	2.51	Down
2539	G6PD	glucose-6-phosphate dehydrogenase	-1.308	8.319	Down
8517	IKBKG	inhibitor of nuclear factor kappa B kinase regulatory subunit gamma	-0.392	1.772	Down
1736	DKC1	dyskerin pseudouridine synthase 1	-0.822	3.461	Down
7411	VBP1	VHL binding protein 1	-1.016	4.663	Down
116442	RAB39B	RAB39B, member RAS oncogene family	-0.421	1.35	Down
80772	CPTP	ceramide-1-phosphate transfer protein	0.604	4.331	Up
142678	MIB2	MIB E3 ubiquitin protein ligase 2	0.754	2.119	Up
728661	SLC35E2B	solute carrier family 35 member E2B	0.845	4.335	Up
9906	SLC35E2A	solute carrier family 35 member E2A	0.982	4.436	Up
6497	SKI	SKI proto-oncogene	1.07	2.225	Up
1953	MEGF6	multiple EGF like domains 6	2.239	9.015	Up
127262	TPRG1L	tumor protein p63 regulated 1 like	0.794	2.654	Up
55966	AJAP1	adherens junctions associated protein 1	4.204	3.237	Up
3104	ZBTB48	zinc finger and BTB domain containing 48	0.558	1.987	Up
9903	KLHL21	kelch like family member 21	0.664	2.476	Up
473	RERE	arginine-glutamic acid dipeptide repeats	0.647	1.527	Up
1.03E+08	RERE-AS1	RERE antisense RNA 1	2.392	1.736	Up
9563	H6PD	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	0.637	1.627	Up
5293	PIK3CD	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	0.319	4.091	Up
22883	CLSTN1	calsyntenin 1	0.605	2.564	Up
79363	CPLANE2	ciliogenesis and planar polarity effector complex subunit 2	0.751	2.246	Up
54455	FBXO42	F-box protein 42	0.34	2.342	Up
55672	NBPF1	NBPF member 1	1.385	2.987	Up
11240	PADI2	peptidyl arginine deiminase 2	2.935	2.061	Up
65018	PINK1	PTEN induced kinase 1	0.869	4.026	Up
1.12E+08	LOC112268222		0.376	1.899	Up
50809	HP1BP3	heterochromatin protein 1 binding protein 3	0.401	1.485	Up
80818	ZNF436	zinc finger protein 436	0.608	3.256	Up
6920	TCEA3	transcription elongation factor A3	0.706	1.559	Up
3399	ID3	inhibitor of DNA binding 3	1.363	2.027	Up
259283	MDS2	myelodysplastic syndrome 2 translocation associated	2.498	4.585	Up
3155	HMGCL	3-hydroxy-3-methylglutaryl-CoA lyase	0.799	3.048	Up
2517	FUCA1	alpha-L-fucosidase 1	0.942	5.115	Up
57185	NIPAL3	NIPA like domain containing 3	0.799	6.438	Up
1.01E+08	RCAN3AS	RCAN3 antisense RNA	1.555	2.322	Up
11123	RCAN3	RCAN family member 3	1.302	14.814	Up
1.01E+08	NCMAP-DT	NCMAP divergent transcript	1.594	16.85	Up
25949	SYF2	SYF2 pre-mRNA splicing factor	0.587	1.894	Up
26119	LDLRAP1	low density lipoprotein receptor adaptor protein 1	2.371	17.65	Up
57134	MAN1C1	mannosidase alpha class 1C member 1	0.774	5.437	Up

149420	PDIK1L	PDLIM1 interacting kinase 1 like	0.599	2.665	Up
83442	SH3BGRL3	SH3 domain binding glutamate rich protein like 3	0.427	1.529	Up
91544	UBXN11	UBX domain protein 11	1.974	9.993	Up
1043	CD52	CD52 molecule	2.08	9.65	Up
63906	GPATCH3	G-patch domain containing 3	0.465	2.36	Up
23038	WDTC1	WD and tetratricopeptide repeats 1	0.465	1.781	Up
84958	SYTL1	synaptotagmin like 1	0.683	2.648	Up
1.05E+08	LOC105376892	uncharacterized LOC105376892	3.684	2.01	Up
27245	AHDC1	AT-hook DNA binding motif containing 1	0.693	1.963	Up
2268	FGR	FGR proto-oncogene, Src family tyrosine kinase	1.461	1.405	Up
199870	FAM76A	family with sequence similarity 76 member A	0.381	1.46	Up
9473	THEMIS2	thymocyte selection associated family member 2	1.116	2.256	Up
55113	XKR8	XK related 8	0.477	2.242	Up
85028	SNHG12	small nucleolar RNA host gene 12	1.429	3.58	Up
115273	RAB42	RAB42, member RAS oncogene family	3.83	3.178	Up
2035	EPB41	erythrocyte membrane protein band 4.1	1.119	5.995	Up
399474	TMEM200B	transmembrane protein 200B	1.249	5.993	Up
1E+08	MATN1-AS1	MATN1 antisense RNA 1	1.284	2.282	Up
7805	LAPTM5	lysosomal protein transmembrane 5	1.354	6.94	Up
3932	LCK	LCK proto-oncogene, Src family tyrosine kinase	0.464	1.484	Up
113451	AZIN2	antizyme inhibitor 2	1.874	4	Up
149076	ZNF362	zinc finger protein 362	1.192	7.499	Up
1912	PHC2	polyhomeotic homolog 2	0.42	1.374	Up
653160	GPR199P	G protein-coupled receptor 199, pseudogene	1.39	1.844	Up
79830	ZMYM1	zinc finger MYM-type containing 1	1.15	5.299	Up
79932	KIAA0319L	KIAA0319 like	0.552	1.607	Up
192670	AGO4	argonaute RISC component 4	1.26	4.131	Up
1296	COL8A2	collagen type VIII alpha 2 chain	2.341	1.772	Up
55194	EVA1B	eva-1 homolog B	1.223	3.94	Up
1441	CSF3R	colony stimulating factor 3 receptor	2.354	2.723	Up
3633	INPP5B	inositol polyphosphate-5-phosphatase B	0.464	1.641	Up
51440	HPCAL4	hippocalcin like 4	2.145	18.948	Up
728621	CCDC30	coiled-coil domain containing 30	0.531	1.352	Up
79078	C1orf50	chromosome 1 open reading frame 50	0.354	1.35	Up
51058	ZNF691	zinc finger protein 691	0.651	1.797	Up
81888	HYI	hydroxypyruvate isomerase (putative)	0.732	1.471	Up
6487	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	0.563	2.669	Up
55182	RNF220	ring finger protein 220	0.272	1.473	Up
9813	EFCAB14	EF-hand calcium binding domain 14	0.376	1.536	Up
84793	FOXD2-AS1	FOXD2 adjacent opposite strand RNA 1	1.036	3.194	Up
79656	BEND5	BEN domain containing 5	1.521	3.526	Up
1031	CDKN2C	cyclin dependent kinase inhibitor 2C	0.835	1.353	Up
9372	ZFYVE9	zinc finger FYVE-type containing 9	0.651	1.72	Up
23318	TUT4	terminal uridylyl transferase 4	0.775	4.615	Up
348378	SHISAL2A	shisa like 2A	1.968	14.109	Up
1.08E+08	LINC02812	long intergenic non-protein coding RNA 2812	1.78	1.591	Up
54432	YIPF1	Yip1 domain family member 1	0.558	1.509	Up
606495	CYB5RL	cytochrome b5 reductase like	0.719	1.76	Up
8613	PLPP3	phospholipid phosphatase 3	3.464	5.4	Up

1600	DAB1	DAB adaptor protein 1	1.851	1.574	Up
1E+08	LINC01135	long intergenic non-protein coding RNA 1135	2.947	3.758	Up
4774	NFIA	nuclear factor I A	1.639	8.751	Up
57685	CACHD1	cache domain containing 1	1.951	1.558	Up
3716	JAK1	Janus kinase 1	0.472	1.394	Up
79819	DNAI4	dynein axonemal intermediate chain 4	1.431	1.666	Up
256435	ST6GALNAC3	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	2.296	2.521	Up
26289	AK5	adenylate kinase 5	2.37	5.883	Up
374986	MIGA1	mitoguardin 1	0.816	5.722	Up
5567	PRKACB	protein kinase cAMP-activated catalytic subunit beta	1.261	2.456	Up
1486	CTBS	chitobiase	0.49	3.073	Up
84144	SYDE2	synapse defective Rho GTPase homolog 2	1.158	3.745	Up
57489	ODF2L	outer dense fiber of sperm tails 2 like	0.56	2.991	Up
5586	PKN2	protein kinase N2	0.47	2.115	Up
7049	TGFBR3	transforming growth factor beta receptor 3	0.786	2.471	Up
23285	KIAA1107	replaced by ID 284697	1.756	3.185	Up
1806	DPYD	dihydropyrimidine dehydrogenase	0.967	2.142	Up
1.01E+08	DPYD-AS1	DPYD antisense RNA 1	0.964	1.422	Up
1629	DBT	dihydrolipoamide branched chain transacylase E2	0.649	2.186	Up
8556	CDC14A	cell division cycle 14A	0.69	3.211	Up
1.03E+08	DPH5-DT	DPH5 divergent transcript	0.742	1.354	Up
1901	S1PR1	sphingosine-1-phosphate receptor 1	0.615	1.681	Up
1.03E+08	LOC102723784	uncharacterized LOC102723784	2.472	3.584	Up
280	AMY2B	amylase alpha 2B	1.295	1.533	Up
56900	TMEM167B	transmembrane protein 167B	0.379	2.271	Up
57535	ELAPOR1	endosome-lysosome associated apoptosis and autophagy regulator 1	0.888	5.424	Up
1952	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2	0.938	1.883	Up
6272	SORT1	sortilin 1	2.208	5.897	Up
57463	AMIGO1	adhesion molecule with Ig like domain 1	2.096	8.004	Up
257	ALX3	ALX homeobox 3	0.869	1.517	Up
128338	DRAM2	DNA damage regulated autophagy modulator 2	0.853	1.542	Up
79961	DENND2D	DENN domain containing 2D	0.985	2.453	Up
1117	CHI3L2	chitinase 3 like 2	1.601	1.996	Up
5016	OVGP1	oviductal glycoprotein 1	1.691	1.94	Up
128346	C1orf162	chromosome 1 open reading frame 162	1.111	3.272	Up
9860	LRIG2	leucine rich repeats and immunoglobulin like domains 2	1.094	3.499	Up
260425	MAGI3	membrane associated guanylate kinase, WW and PDZ domain containing 3	0.831	2.23	Up
7812	CSDE1	cold shock domain containing E1	0.476	1.369	Up
10100	TSPAN2	tetraspanin 2	1.095	1.31	Up
476	ATP1A1	ATPase Na+/K+ transporting subunit alpha 1	0.521	4.635	Up
84852	ATP1A1-AS1	ATP1A1 antisense RNA 1	0.572	3.899	Up
1.05E+08	LOC105378954		0.859	2.098	Up
1.01E+08	PDE4DIPP2	PDE4DIP pseudogene 2	1.054	1.918	Up
1.08E+08	LOC107985524	uncharacterized LOC107985524	0.996	2.215	Up

653464	SRGAP2C	SLIT-ROBO Rho GTPase activating protein 2C	0.761	2.115	Up
1.08E+08	LINC02798	long intergenic non-protein coding RNA 2798	2.909	2.935	Up
647121	EMBP1	embigin pseudogene 1	0.899	2.637	Up
284565	NBPF15	NBPF member 15	1.341	5.023	Up
647135	SRGAP2B	SLIT-ROBO Rho GTPase activating protein 2B	0.773	2.119	Up
1.03E+08	LINC01145	long intergenic non-protein coding RNA 1145	0.682	1.479	Up
1.01E+08	LOC100996740	uncharacterized LOC100996740	0.846	1.677	Up
128077	LIX1L	limb and CNS expressed 1 like	0.403	1.591	Up
84265	POLR3GL	RNA polymerase III subunit GL	0.881	4.834	Up
10628	TXNIP	thioredoxin interacting protein	1.563	13.84	Up
1.01E+08	LOC100996756	uncharacterized LOC100996756	2.043	10.553	Up
51205	ACP6	acid phosphatase 6, lysophosphatidic	0.711	2.418	Up
1.05E+08	LOC105371224	uncharacterized LOC105371224	0.65	2.576	Up
9659	PDE4DIP	phosphodiesterase 4D interacting protein	0.923	2.6	Up
1.01E+08	NOTCH2NLC	notch 2 N-terminal like C	0.674	2.043	Up
57234	LINC00869	long intergenic non-protein coding RNA 869	0.747	1.908	Up
79630	C1orf54	chromosome 1 open reading frame 54	1.147	1.816	Up
23248	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.783	3.549	Up
8416	ANXA9	annexin A9	1.306	3.727	Up
55793	MINDY1	MINDY lysine 48 deubiquitinase 1	0.993	3.112	Up
54964	C1orf56	chromosome 1 open reading frame 56	0.578	1.884	Up
56882	CDC42SE1	CDC42 small effector 1	0.435	2.959	Up
10500	SEMA6C	semaphorin 6C	1.484	2.232	Up
79626	TNFAIP8L2	TNF alpha induced protein 8 like 2	1.382	7.015	Up
81609	SNX27	sorting nexin 27	0.473	1.611	Up
11189	CELF3	CUGBP Elav-like family member 3	0.552	2.202	Up
1.1E+08	TDRKH-AS1	TDRKH antisense RNA 1	1.297	1.578	Up
117145	THEM4	thioesterase superfamily member 4	0.92	2.531	Up
6279	S100A8	S100 calcium binding protein A8	2.384	2.211	Up
11000	SLC27A3	solute carrier family 27 member 3	1.117	2.791	Up
57198	ATP8B2	ATPase phospholipid transporting 8B2	0.971	4.827	Up
57326	PBXIP1	PBX homeobox interacting protein 1	1.889	46.57	Up
90780	PYGO2	pygopus family PHD finger 2	0.599	2.454	Up
1944	EFNA3	ephrin A3	1.008	2.583	Up
1942	EFNA1	ephrin A1	3.427	4.646	Up
84283	TMEM79	transmembrane protein 79	0.851	1.546	Up
112770	GLMP	glycosylated lysosomal membrane protein	0.619	2.741	Up
9826	ARHGEF11	Rho guanine nucleotide exchange factor 11	2.332	33.51	Up
913	CD1E	CD1e molecule	4.075	1.684	Up
4332	MNDA	myeloid cell nuclear differentiation antigen	4.093	1.972	Up
149628	PYHIN1	pyrin and HIN domain family member 1	0.694	1.419	Up
56833	SLAMF8	SLAM family member 8	1.424	2.214	Up
284677	SNHG28	small nucleolar RNA host gene 28	1.486	1.702	Up
50717	DCAF8	DDB1 and CUL4 associated factor 8	0.309	1.329	Up
114836	SLAMF6	SLAM family member 6	0.966	6.76	Up
4063	LY9	lymphocyte antigen 9	1.644	6.594	Up

27005	USP21	ubiquitin specific peptidase 21	0.721	2.561	Up
25903	OLFML2B	olfactomedin like 2B	4.295	2.154	Up
117157	SH2D1B	SH2 domain containing 1B	1.558	1.959	Up
5087	PBX1	PBX homeobox 1	2.347	1.961	Up
1.05E+08	LOC105371600	uncharacterized LOC105371600	3.905	3.018	Up
10223	GPA33	glycoprotein A33	3.496	18.28	Up
919	CD247	CD247 molecule	0.606	3.903	Up
8804	CREG1	cellular repressor of E1A stimulated genes 1	0.652	3.355	Up
92241	RCSD1	RCSD domain containing 1	1.082	2.03	Up
9095	TBX19	T-box transcription factor 19	1.479	2.919	Up
6402	SELL	selectin L	1.337	11.607	Up
8674	VAMP4	vesicle associated membrane protein 4	0.655	5.768	Up
26052	DNM3	dynamin 3	0.994	1.635	Up
5279	PIGC	phosphatidylinositol glycan anchor biosynthesis class C	0.728	2.419	Up
60674	GAS5	growth arrest specific 5	0.934	1.435	Up
1.07E+08	SNORA103	small nucleolar RNA, H/ACA box 103	0.893	1.422	Up
646976	RALGPS2-AS1	RALGPS2 antisense RNA 1	1.594	1.339	Up
55103	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2	1.237	8.719	Up
3140	MR1	major histocompatibility complex, class I-related	0.588	4.56	Up
6041	RNASEL	ribonuclease L	1.028	6.026	Up
4688	NCF2	neutrophil cytosolic factor 2	2.273	4.279	Up
1.08E+08	LOC107985235		3.918	1.524	Up
23179	RGL1	ral guanine nucleotide dissociation stimulator like 1	1.385	8.372	Up
81563	C1orf21	chromosome 1 open reading frame 21	1.502	1.426	Up
80267	EDEM3	ER degradation enhancing alpha-mannosidase like protein 3	0.472	2.191	Up
10625	IVNS1ABP	influenza virus NS1A binding protein	0.527	1.527	Up
64407	RGS18	regulator of G protein signaling 18	1.191	1.558	Up
5997	RGS2	regulator of G protein signaling 2	0.922	1.416	Up
3075	CFH	complement factor H	1.593	3.052	Up
360023	ZBTB41	zinc finger and BTB domain containing 41	0.943	5.835	Up
140609	NEK7	NIMA related kinase 7	0.507	3.928	Up
5788	PTPRC	protein tyrosine phosphatase receptor type C	0.779	7.733	Up
23271	CAMSAP2	calmodulin regulated spectrin associated protein family member 2	0.771	2.412	Up
59352	LGR6	leucine rich repeat containing G protein-coupled receptor 6	4.224	2.399	Up
4660	PPP1R12B	protein phosphatase 1 regulatory subunit 12B	0.93	1.314	Up
9580	SOX13	SRY-box transcription factor 13	1.234	1.446	Up
5972	REN	renin	3.232	2.598	Up
81788	NUAK2	NUAK family kinase 2	1.714	10.289	Up
148808	MFSD4A	major facilitator superfamily domain containing 4A	1.496	2.637	Up
338382	RAB7B	RAB7B, member RAS oncogene family	1.85	1.671	Up
1939	EIF2D	eukaryotic translation initiation factor 2D	0.54	1.619	Up
1.05E+08	LOC105372877		2.082	1.989	Up
1.05E+08	LOC105372879	uncharacterized LOC105372879	2.015	1.307	Up
11009	IL24	interleukin 24	2.526	22.113	Up

9214	FCMR	Fc mu receptor	2.455	15.131	Up
1378	CR1	complement C3b/C4b receptor 1 (Knops blood group)	4.559	4.193	Up
947	CD34	CD34 molecule	1.751	1.666	Up
7188	TRAF5	TNF receptor associated factor 5	0.512	3.228	Up
5525	PPP2R5A	protein phosphatase 2 regulatory subunit B'alpha	0.381	3.578	Up
375056	MIA3	MIA SH3 domain ER export factor 3	0.496	2.494	Up
7100	TLR5	toll like receptor 5	1.68	2.747	Up
55061	SUSD4	sushi domain containing 4	1.691	5.587	Up
1E+08	SEPTIN7P13	septin 7 pseudogene 13	0.865	1.946	Up
2052	EPHX1	epoxide hydrolase 1	1.754	10.858	Up
9725	TMEM63A	transmembrane protein 63A	1.281	7.251	Up
3707	ITPKB	inositol-trisphosphate 3-kinase B	0.765	1.977	Up
56997	COQ8A	coenzyme Q8A	0.64	2.68	Up
79169	C1orf35	chromosome 1 open reading frame 35	0.588	2.208	Up
84033	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	1.595	3.468	Up
1.02E+08	LOC101927401	uncharacterized LOC101927401	2.121	3.061	Up
92815	H2AC25	H2A clustered histone 25	0.904	2.036	Up
5867	RAB4A	RAB4A, member RAS oncogene family	0.399	1.925	Up
27185	DISC1	DISC1 scaffold protein	1.215	3.3	Up
80003	PCNX2	pecanex 2	1.276	2.345	Up
4548	MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	0.81	2.747	Up
64388	GREM2	gremlin 2, DAN family BMP antagonist	1.707	2.894	Up
8564	KMO	kynurenine 3-monooxygenase	1.305	3.713	Up
23596	OPN3	opsin 3	1.094	2.686	Up
10806	SDCCAG8	SHH signaling and ciliogenesis regulator SDCCAG8	0.493	2.639	Up
10000	AKT3	AKT serine/threonine kinase 3	0.65	4.773	Up
10472	ZBTB18	zinc finger and BTB domain containing 18	1.517	7.966	Up
163882	CNST	consortin, connexin sorting protein	0.598	2.159	Up
1.03E+08	LOC102724250	neuroblastoma breakpoint family member 1-like	1.397	2.322	Up
130813	C2orf50	chromosome 2 open reading frame 50	2.458	2.338	Up
130814	SLC66A3	solute carrier family 66 member 3	0.46	1.32	Up
1.05E+08	LOC105373431	uncharacterized LOC105373431	1.617	2.41	Up
28951	TRIB2	tribbles pseudokinase 2	1.491	6.357	Up
4613	MYCN	MYCN proto-oncogene, bHLH transcription factor	2.444	1.49	Up
64342	HS1BP3	HCLS1 binding protein 3	0.848	4.077	Up
54454	ATAD2B	ATPase family AAA domain containing 2B	0.696	1.722	Up
375190	FAM228B	family with sequence similarity 228 member B	1.357	5.835	Up
51277	DNAJC27	DnaJ heat shock protein family (Hsp40) member C27	0.847	2.359	Up
729723	DNAJC27-AS1	DNAJC27 antisense RNA 1	2.718	4.254	Up
2498	FTH1P3	ferritin heavy chain 1 pseudogene 3	0.91	2.453	Up
26160	IFT172	intraflagellar transport 172	1.087	3.153	Up
79635	CCDC121	coiled-coil domain containing 121	1.888	2.925	Up
151056	PLB1	phospholipase B1	1.518	2.468	Up
79745	CLIP4	CAP-Gly domain containing linker protein family member 4	0.696	3.949	Up
51646	YPEL5	yippee like 5	0.618	1.816	Up
81606	LBH	LBH regulator of WNT signaling pathway	1.232	2.415	Up
58484	NLRC4	NLR family CARD domain containing 4	1.267	1.487	Up
54497	HEATR5B	HEAT repeat containing 5B	0.992	6.223	Up

1.05E+08	LINC03063	long intergenic non-protein coding RNA 3063	1.249	2.644	Up
151393	RMDN2	regulator of microtubule dynamics 2	1.35	2.557	Up
1545	CYP1B1	cytochrome P450 family 1 subfamily B member 1	1.526	2.528	Up
8491	MAP4K3	mitogen-activated protein kinase kinase kinase kinase 3	0.831	1.621	Up
6546	SLC8A1	solute carrier family 8 member A1	2.812	2.543	Up
27436	EML4	EMAP like 4	0.745	2.844	Up
1.08E+08	LOC107985873		0.761	1.979	Up
1.08E+08	LOC107985876	uncharacterized LOC107985876	2.374	1.613	Up
678	ZFP36L2	ZFP36 ring finger protein like 2	1.843	8.646	Up
1.03E+08	LOC102724965	uncharacterized LOC102724965	1.168	1.504	Up
5581	PRKCE	protein kinase C epsilon	0.663	3.156	Up
90423	ATP6V1E2	ATPase H+ transporting V1 subunit E2	1.074	3.864	Up
129285	PPP1R21	protein phosphatase 1 regulatory subunit 21	0.582	4.337	Up
6711	SPTBN1	spectrin beta, non-erythrocytic 1	0.999	1.606	Up
130162	CLHC1	clathrin heavy chain linker domain containing 1	1.254	2.433	Up
112942	CFAP36	cilia and flagella associated protein 36	0.88	1.752	Up
130872	AHSA2P	activator of HSP90 ATPase homolog 2, pseudogene	0.712	1.355	Up
51057	WDPCP	WD repeat containing planar cell polarity effector	0.617	1.51	Up
23177	CEP68	centrosomal protein 68	1.007	4.286	Up
22848	AAK1	AP2 associated kinase 1	0.814	2.07	Up
64395	GMCL1	germ cell-less 1, spermatogenesis associated	0.729	1.996	Up
51449	PCYOX1	prenylcysteine oxidase 1	0.942	4.912	Up
7039	TGFA	transforming growth factor alpha	1.617	2.531	Up
400961	PAIP2B	poly(A) binding protein interacting protein 2B	1.343	8.997	Up
388963	C2orf81	chromosome 2 open reading frame 81	1.39	3.741	Up
23559	WBP1	WW domain binding protein 1	0.898	2.859	Up
388969	C2orf68	chromosome 2 open reading frame 68	0.634	3.552	Up
55818	KDM3A	lysine demethylase 3A	0.888	2.431	Up
7844	RNF103	ring finger protein 103	0.593	2.109	Up
5342	PLGLB2	plasminogen like B2	0.788	1.62	Up
1.02E+08	EIF2AK3-DT	EIF2AK3 divergent transcript	1.032	1.706	Up
7549	ZNF2	zinc finger protein 2	0.831	4.219	Up
55683	KANSL3	KAT8 regulatory NSL complex subunit 3	0.515	2.078	Up
1.01E+08	CNNM3-DT	CNNM3 divergent transcript	2.178	2.718	Up
26505	CNNM3	cyclin and CBS domain divalent metal cation transport mediator 3	1.048	5.57	Up
54910	SEMA4C	semaphorin 4C	1.286	3.447	Up
3631	INPP4A	inositol polyphosphate-4-phosphatase type I A	0.857	3.696	Up
11320	MGAT4A	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A	1.13	9.086	Up
1.02E+08	LINC02611	long intergenic non-protein coding RNA 2611	2.037	5.042	Up
80705	TSGA10	testis specific 10	1.134	3.961	Up
150590	C2orf15	chromosome 2 open reading frame 15	1.834	8.308	Up
51601	LIPT1	lipoyltransferase 1	0.651	1.727	Up
3899	AFF3	ALF transcription elongation factor 3	2.164	11.195	Up
284996	RNF149	ring finger protein 149	0.579	2.887	Up

130827	TMEM182	transmembrane protein 182	0.879	1.492	Up
8440	NCK2	NCK adaptor protein 2	0.61	2.887	Up
80146	UXS1	UDP-glucuronate decarboxylase 1	0.703	2.648	Up
3987	LIMS1	LIM zinc finger domain containing 1	0.478	1.926	Up
10913	EDAR	ectodysplasin A receptor	2.532	9.28	Up
1E+08	SH3RF3-AS1	SH3RF3 antisense RNA 1	3.249	8.618	Up
344558	SH3RF3	SH3 domain containing ring finger 3	3.036	10.833	Up
1E+08	LIMS4	LIM zinc finger domain containing 4	0.501	1.352	Up
84910	TMEM87B	transmembrane protein 87B	0.492	1.493	Up
376940	ZC3H6	zinc finger CCCH-type containing 6	1.604	7.458	Up
140738	TMEM37	transmembrane protein 37	4.853	1.665	Up
1.02E+08	LOC101927764	uncharacterized LOC101927764	1.02	2.171	Up
5775	PTPN4	protein tyrosine phosphatase non-receptor type 4	1.002	4.408	Up
2995	GYPC	glycophorin C (Gerbich blood group)	1.676	8.011	Up
274	BIN1	bridging integrator 1	0.956	4.393	Up
55679	LIMS2	LIM zinc finger domain containing 2	1.427	2.456	Up
84317	CCDC115	coiled-coil domain containing 115	0.469	2.947	Up
26469	PTPN18	protein tyrosine phosphatase non-receptor type 18	0.384	1.957	Up
653784	MZT2A	mitotic spindle organizing protein 2A	0.584	1.934	Up
905	CCNT2	cyclin T2	0.525	2.142	Up
1.12E+08	LOC112268426		0.729	1.509	Up
7852	CXCR4	C-X-C motif chemokine receptor 4	0.724	1.68	Up
55843	ARHGAP15	Rho GTPase activating protein 15	0.818	2.125	Up
92	ACVR2A	activin A receptor type 2A	0.987	1.674	Up
55777	MBD5	methyl-CpG binding domain protein 5	0.608	2.171	Up
26122	EPC2	enhancer of polycomb homolog 2	0.593	3.459	Up
375287	RBM43	RNA binding motif protein 43	1.871	3.254	Up
9874	TLK1	tousled like kinase 1	0.782	2.531	Up
79901	CYBRD1	cytochrome b reductase 1	1.253	1.911	Up
3655	ITGA6	integrin subunit alpha 6	2.588	24.247	Up
1.02E+08	ITGA6-AS1	ITGA6 antisense RNA 1	1.113	1.566	Up
5163	PDK1	pyruvate dehydrogenase kinase 1	1.106	7.167	Up
6744	ITPRID2	ITPR interacting domain containing 2	0.644	2.285	Up
142679	DUSP19	dual specificity phosphatase 19	1.604	3.807	Up
10203	CALCRL	calcitonin receptor like receptor	1.8	1.781	Up
30061	SLC40A1	solute carrier family 40 member 1	1.259	1.443	Up
150709	ANKAR	ankyrin and armadillo repeat containing	0.907	2.457	Up
64172	OSGEPL1	O-sialoglycoprotein endopeptidase like 1	0.743	1.684	Up
1E+08	NEMP2	nuclear envelope integral membrane protein 2	0.532	1.565	Up
1.02E+08	ANKRD44-AS1	ANKRD44 antisense RNA 1	1.338	2.027	Up
5334	PLCL1	phospholipase C like 1 (inactive)	0.799	6.083	Up
130535	KCTD18	potassium channel tetramerization domain containing 18	0.383	1.528	Up
1195	CLK1	CDC like kinase 1	0.998	3.002	Up
843	CASP10	caspase 10	0.416	2.039	Up
841	CASP8	caspase 8	0.83	2.736	Up
659	BMPR2	bone morphogenetic protein receptor type 2	0.838	2.444	Up
150864	FAM117B	family with sequence similarity 117 member B	1.206	5.759	Up
79800	CARF	calcium responsive transcription factor	1.378	4.833	Up

57683	ZDBF2	zinc finger DBF-type containing 2	0.641	4.416	Up
8745	ADAM23	ADAM metallopeptidase domain 23	2.325	6.715	Up
8609	KLF7	KLF transcription factor 7	0.782	2.306	Up
200576	PIKFYVE	phosphoinositide kinase, FYVE-type zinc finger containing	0.519	1.406	Up
92691	TMEM169	transmembrane protein 169	1.207	1.779	Up
64114	TMBIM1	transmembrane BAX inhibitor motif containing 1	0.531	1.659	Up
6556	SLC11A1	solute carrier family 11 member 1	2.133	2.431	Up
1593	CYP27A1	cytochrome P450 family 27 subfamily A member 1	4.069	4.862	Up
79137	RETREG2	reticulophagy regulator family member 2	0.701	5.153	Up
55139	ANKZF1	ankyrin repeat and zinc finger peptidyl tRNA hydrolase 1	0.601	3.911	Up
3300	DNAJB2	DnaJ heat shock protein family (Hsp40) member B2	0.576	2.382	Up
2043	EPHA4	EPH receptor A4	2.622	12.273	Up
3667	IRS1	insulin receptor substrate 1	2.167	1.481	Up
55022	PID1	phosphotyrosine interaction domain containing 1	4.915	2.716	Up
3635	INPP5D	inositol polyphosphate-5-phosphatase D	1.171	4.936	Up
55054	ATG16L1	autophagy related 16 like 1	0.396	1.641	Up
23677	SH3BP4	SH3 domain binding protein 4	1.261	1.373	Up
57007	ACKR3	atypical chemokine receptor 3	1.787	5.362	Up
9759	HDAC4	histone deacetylase 4	1.037	2.995	Up
1.02E+08	HDAC4-AS1	HDAC4 antisense RNA 1	2.237	1.608	Up
51281	ANKMY1	ankyrin repeat and MYND domain containing 1	0.957	1.955	Up
285193	DUSP28	dual specificity phosphatase 28	0.513	1.452	Up
57140	RNPEPL1	arginyl aminopeptidase like 1	0.747	6.781	Up
25992	SNED1	sushi, nidogen and EGF like domains 1	1.737	7.987	Up
1.08E+08	LOC107985787	uncharacterized LOC107985787	3.249	1.569	Up
130916	MTERF4	mitochondrial transcription termination factor 4	0.889	6.103	Up
23178	PASK	PAS domain containing serine/threonine kinase	1.096	10.34	Up
728294	D2HGDH	D-2-hydroxyglutarate dehydrogenase	1.057	1.804	Up
51185	CRBN	cereblon	0.699	2.216	Up
9901	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	0.957	3.048	Up
84818	IL17RC	interleukin 17 receptor C	1.007	1.488	Up
78987	CRELD1	cysteine rich with EGF like domains 1	0.724	3.451	Up
152302	CIDECP1	CIDEC pseudogene 1	0.707	2.371	Up
619563	SNORA7A	small nucleolar RNA, H/ACA box 7A	1	1.926	Up
9922	IQSEC1	IQ motif and Sec7 domain ArfGEF 1	1.025	3.251	Up
7476	WNT7A	Wnt family member 7A	3.078	10.553	Up
7508	XPC	XPC complex subunit, DNA damage recognition and repair factor	0.681	5.11	Up
64145	RBSN	rabenosyn, RAB effector	0.89	3.791	Up
23473	CAPN7	calpain 7	0.525	2.494	Up
686	BTD	biotinidase	0.76	2.942	Up
92106	OXNAD1	oxidoreductase NAD binding domain containing 1	0.645	2.647	Up
23228	PLCL2	phospholipase C like 2	0.916	8.995	Up
1.02E+08	SATB1-AS1	SATB1 antisense RNA 1	0.879	3.725	Up
9975	NR1D2	nuclear receptor subfamily 1 group D member 2	0.914	4.792	Up
9497	SLC4A7	solute carrier family 4 member 7	0.699	2.455	Up
152098	ZCWPW2	zinc finger CW-type and PWWP domain containing 2	0.793	1.892	Up
7048	TGFBR2	transforming growth factor beta receptor 2	1.451	3.658	Up
23171	GPD1L	glycerol-3-phosphate dehydrogenase 1 like	0.711	2.319	Up

152189	CMTM8	CKLF like MARVEL transmembrane domain containing 8	1.711	1.919	Up
112616	CMTM7	CKLF like MARVEL transmembrane domain containing 7	1.195	8.499	Up
10491	CRTAP	cartilage associated protein	1.223	6.635	Up
9881	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1	1.129	4.298	Up
50853	VILL	villin like	0.698	1.658	Up
5333	PLCD1	phospholipase C delta 1	1.7	13.305	Up
93	ACVR2B	activin A receptor type 2B	0.957	1.59	Up
199223	TTC21A	tetratricopeptide repeat domain 21A	1.871	2.236	Up
54977	SLC25A38	solute carrier family 25 member 38	0.395	1.611	Up
285266	ENTPD3-AS1	ENTPD3 antisense RNA 1	1.436	2.574	Up
7433	VIPR1	vasoactive intestinal peptide receptor 1	2.843	16.791	Up
1.01E+08	VIPR1-AS1	VIPR1 antisense RNA 1	2.63	3.364	Up
1.01E+08	SNRK-AS1	SNRK antisense RNA 1	0.488	1.324	Up
285343	TCAIM	T cell activation inhibitor, mitochondrial	0.521	2.017	Up
353274	ZNF445	zinc finger protein 445	0.794	2.745	Up
1.1E+08	ZNF660-ZNF197	ZNF660-ZNF197 readthrough	0.657	1.874	Up
10168	ZNF197	zinc finger protein 197	0.652	1.842	Up
693149	MIR564	microRNA 564	1.844	2.292	Up
131616	TMEM42	transmembrane protein 42	1.144	3.568	Up
10803	CCR9	C-C motif chemokine receptor 9	1.917	2.805	Up
1230	CCR1	C-C motif chemokine receptor 1	1.187	1.51	Up
1.03E+08	CCR5AS	CCR5 antisense RNA	1.945	1.531	Up
79442	LRRC2	leucine rich repeat containing 2	2.085	2.946	Up
259173	ALS2CL	ALS2 C-terminal like	1.585	3.245	Up
259236	TMIE	transmembrane inner ear	0.918	1.394	Up
51246	SHISA5	shisa family member 5	1.194	7.889	Up
51517	NCKIPSD	NCK interacting protein with SH3 domain	0.479	2.928	Up
1.01E+08	PRKAR2A-AS1	PRKAR2A antisense RNA 1	1.032	1.372	Up
10869	USP19	ubiquitin specific peptidase 19	0.546	1.524	Up
22973	LAMB2P1	laminin subunit beta 2 pseudogene 1	2.02	2.833	Up
10181	RBM5	RNA binding motif protein 5	0.482	1.666	Up
9254	CACNA2D2	calcium voltage-gated channel auxiliary subunit alpha2delta 2	1.019	3.48	Up
51368	TEX264	testis expressed 264, ER-phagy receptor	0.544	1.524	Up
84836	ABHD14B	abhydrolase domain containing 14B	1.103	3.846	Up
25864	ABHD14A	abhydrolase domain containing 14A	0.721	1.861	Up
1849	DUSP7	dual specificity phosphatase 7	1.147	9.043	Up
51533	PHF7	PHD finger protein 7	1.252	4.407	Up
7134	TNNC1	troponin C1, slow skeletal and cardiac type	2.679	1.905	Up
23166	STAB1	stabilin 1	2.619	13.16	Up
51460	SFMBT1	Scm like with four mbt domains 1	1.214	4.993	Up
285331	CCDC66	coiled-coil domain containing 66	0.899	2.321	Up
50650	ARHGEF3	Rho guanine nucleotide exchange factor 3	1.284	9.083	Up
201627	DENND6A	DENN domain containing 6A	1.077	6.743	Up
2317	FLNB	filamin B	0.862	1.673	Up
2272	FHIT	fragile histidine triad diadenosine triphosphatase	1.593	3.485	Up
6314	ATXN7	ataxin 7	0.787	3.24	Up

407738	TAFA1	TAFA chemokine like family member 1	5.011	4.162	Up
7110	TMF1	TATA element modulatory factor 1	0.603	1.393	Up
4286	MITF	melanocyte inducing transcription factor	2.372	3.07	Up
27086	FOXP1	forkhead box P1	0.397	1.624	Up
1.08E+08	LOC107986097		2.885	2.569	Up
200895	DHFR2	dihydrofolate reductase 2	0.441	1.32	Up
10402	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	1.706	1.896	Up
57337	SENP7	SUMO specific peptidase 7	0.942	12.291	Up
868	CBLB	Cbl proto-oncogene B	0.918	3.128	Up
54847	SIDT1	SID1 transmembrane family member 1	0.842	7.634	Up
26137	ZBTB20	zinc finger and BTB domain containing 20	1.33	4.118	Up
79663	HSPBAP1	HSPB1 associated protein 1	0.582	1.834	Up
84925	SLC49A4	solute carrier family 49 member 4	0.866	2.161	Up
1E+08	LINC02035	long intergenic non-protein coding RNA 2035	1.541	4.742	Up
8997	KALRN	kalirin RhoGEF kinase	1.386	2.182	Up
3693	ITGB5	integrin subunit beta 5	2.771	6.11	Up
7707	ZNF148	zinc finger protein 148	0.33	1.336	Up
28999	KLF15	KLF transcription factor 15	2.171	1.444	Up
80325	ABTB1	ankyrin repeat and BTB domain containing 1	1.495	22.435	Up
8971	H1-10	H1.10 linker histone	0.684	1.782	Up
132241	RPL32P3	ribosomal protein L32 pseudogene 3	1.018	1.62	Up
55764	IFT122	intraflagellar transport 122	0.699	2.879	Up
23129	PLXND1	plexin D1	2.03	6.443	Up
28990	ASTE1	asteroid homolog 1	0.736	3.872	Up
79858	NEK11	NIMA related kinase 11	1.05	1.887	Up
131870	NUDT16	nudix hydrolase 16	0.618	1.663	Up
23317	DNAJC13	DnaJ heat shock protein family (Hsp40) member C13	0.515	1.467	Up
6259	RYK	receptor like tyrosine kinase	0.326	1.385	Up
80254	CEP63	centrosomal protein 63	0.552	2.505	Up
5523	PPP2R3A	protein phosphatase 2 regulatory subunit B''alpha	0.628	1.407	Up
347736	NME9	NME/NM23 family member 9	0.693	1.522	Up
22808	MRAS	muscle RAS oncogene homolog	1.919	2.782	Up
55186	SLC25A36	solute carrier family 25 member 36	0.399	2.04	Up
92370	PXYLP1	2-phosphoxylose phosphatase 1	0.657	1.977	Up
7029	TFDP2	transcription factor Dp-2	1.142	2.895	Up
285195	SLC9A9	solute carrier family 9 member A9	1.641	10.904	Up
205428	DIPK2A	divergent protein kinase domain 2A	0.718	2.175	Up
1359	CPA3	carboxypeptidase A3	1.6	1.78	Up
6596	HLTF	helicase like transcription factor	0.568	1.418	Up
84343	HPS3	HPS3 biogenesis of lysosomal organelles complex 2 subunit 1	0.774	2.635	Up
1356	CP	ceruloplasmin	1.175	3.376	Up
1.02E+08	ERICH6-AS1	ERICH6 antisense RNA 1	1.266	1.676	Up
401093	MBNL1-AS1	MBNL1 antisense RNA 1	0.493	2.113	Up
5912	RAP2B	RAP2B, member of RAS oncogene family	0.773	4.704	Up
1E+08	TRIM59-IFT80	TRIM59-IFT80 protein	0.404	1.308	Up
57560	IFT80	intraflagellar transport 80	0.685	2.366	Up
80012	PHC3	polyhomeotic homolog 3	0.633	1.886	Up
23043	TNIK	TRAF2 and NCK interacting kinase	0.928	2.88	Up

1.03E+08	LOC102724479	uncharacterized LOC102724479	1.436	1.63	Up
23200	ATP11B	ATPase phospholipid transporting 11B (putative)	0.491	2.067	Up
56922	MCCC1	methylcrotonyl-CoA carboxylase subunit 1	0.762	4.354	Up
1.08E+08	LOC107986162	uncharacterized LOC107986162	1.37	3.097	Up
54800	KLHL24	kelch like family member 24	1.227	7.692	Up
10057	ABCC5	ATP binding cassette subfamily C member 5	0.784	2.102	Up
2049	EPHB3	EPH receptor B3	2.282	1.394	Up
23355	VPS8	VPS8 subunit of CORVET complex	0.787	5.688	Up
285386	TPRG1	tumor protein p63 regulated 1	1.289	1.797	Up
84239	ATP13A4	ATPase 13A4	1.612	1.536	Up
2814	GP5	glycoprotein V platelet	3.062	14.063	Up
23527	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	0.541	2.163	Up
152217	NCBP2AS2	NCBP2 antisense 2 (head to head)	0.476	2.565	Up
89782	LMLN	leishmanolysin like peptidase	0.756	1.486	Up
170960	ZNF721	zinc finger protein 721	0.453	2.207	Up
84286	TMEM175	transmembrane protein 175	0.692	2.912	Up
1E+08	LOC100130872	uncharacterized LOC100130872	1.484	2.682	Up
92070	CTBP1-DT	CTBP1 divergent transcript	0.543	1.745	Up
152877	FAM53A	family with sequence similarity 53 member A	1.445	2.628	Up
10460	TACC3	transforming acidic coiled-coil containing protein 3	0.675	2.824	Up
1.12E+08	LOC112268460	uncharacterized LOC112268460	0.718	3.037	Up
10608	MXD4	MAX dimerization protein 4	1.196	9.865	Up
1.01E+08	MIR4800	microRNA 4800	1.491	1.899	Up
166793	ZBTB49	zinc finger and BTB domain containing 49	0.739	3.101	Up
54360	CYTL1	cytokine like 1	3.967	2.297	Up
93622	LOC93622	Morf4 family associated protein 1 like 1	1.099	5.425	Up
339988	LINC02481	long intergenic non-protein coding RNA 2481	2.179	3.544	Up
114932	MRFAP1L1	Morf4 family associated protein 1 like 1	0.533	1.678	Up
57533	TBC1D14	TBC1 domain family member 14	0.359	1.447	Up
1E+08	LOC100129931	uncharacterized LOC100129931	0.38	1.574	Up
257236	CCDC96	coiled-coil domain containing 96	0.986	1.439	Up
93624	TADA2B	transcriptional adaptor 2B	0.394	1.871	Up
84448	ABLIM2	actin binding LIM protein family member 2	1.717	6.542	Up
54436	SH3TC1	SH3 domain and tetratricopeptide repeats 1	0.756	2.185	Up
132864	CPEB2	cytoplasmic polyadenylation element binding protein 2	0.847	2.172	Up
285550	FAM200B	family with sequence similarity 200 member B	0.949	3.228	Up
254251	LCORL	ligand dependent nuclear receptor corepressor like	0.684	2.307	Up
768211	RELL1	RELT like 1	0.661	2.053	Up
1.06E+08	LINC01259	long intergenic non-protein coding RNA 1259	3.53	1.724	Up
1.03E+08	LOC102723415	replaced by ID 79667	3.941	2.522	Up
79667	KLF3-AS1	KLF3 antisense RNA 1	1.868	6.985	Up
51274	KLF3	KLF transcription factor 3	1.451	9.811	Up
57728	WDR19	WD repeat domain 19	0.819	2.033	Up
1.01E+08	UGDH-AS1	UGDH antisense RNA 1	1.367	1.318	Up

201895	SMIM14	small integral membrane protein 14	1.887	11.262	Up
10396	ATP8A1	ATPase phospholipid transporting 8A1	1.359	5.21	Up
152518	NFXL1	nuclear transcription factor, X-box binding like 1	0.685	3.193	Up
7294	TXK	TXK tyrosine kinase	0.934	3.807	Up
326340	ZAR1	zygote arrest 1	0.533	2.056	Up
26511	CHIC2	cysteine rich hydrophobic domain 2	0.637	1.591	Up
3815	KIT	KIT proto-oncogene, receptor tyrosine kinase	1.135	1.347	Up
55763	EXOC1	exocyst complex component 1	0.502	2.946	Up
5978	REST	RE1 silencing transcription factor	0.438	2.054	Up
1060	CENPC	centromere protein C	0.571	1.55	Up
550112	UBA6-DT	UBA6 divergent transcript	0.751	2.751	Up
27284	SULT1B1	sulfotransferase family 1B member 1	3.692	14.333	Up
166824	RASSF6	Ras association domain family member 6	3.481	2.655	Up
27163	NAAA	N-acylethanolamine acid amidase	0.93	3.761	Up
950	SCARB2	scavenger receptor class B member 2	0.915	6.006	Up
1.08E+08	LOC107986290		2.312	2.18	Up
10983	CCNI	cyclin I	0.758	2.509	Up
901	CCNG2	cyclin G2	0.578	1.487	Up
246175	CNOT6L	CCR4-NOT transcription complex subunit 6 like	1.465	11.264	Up
55589	BMP2K	BMP2 inducible kinase	0.618	1.655	Up
5593	PRKG2	protein kinase cGMP-dependent 2	2.738	6.121	Up
1.05E+08	LOC105377308	uncharacterized LOC105377308	1.857	1.837	Up
51316	PLAC8	placenta associated 8	1.066	3.728	Up
113510	HELQ	helicase, POLQ like	0.477	1.775	Up
84142	ABRAXAS1	abraxas 1, BRCA1 A complex subunit	0.717	2.039	Up
84803	GPAT3	glycerol-3-phosphate acyltransferase 3	0.825	1.699	Up
23001	WDFY3	WD repeat and FYVE domain containing 3	2.319	2.325	Up
4299	AFF1	ALF transcription elongation factor 1	0.462	1.34	Up
51170	HSD17B11	hydroxysteroid 17-beta dehydrogenase 11	1.588	3.249	Up
8916	HERC3	HECT and RLD domain containing E3 ubiquitin protein ligase 3	0.474	2.237	Up
5530	PPP3CA	protein phosphatase 3 catalytic subunit alpha	0.918	4.933	Up
90024	FLJ20021	uncharacterized LOC90024	1.842	3.816	Up
4126	MANBA	mannosidase beta	1.326	15.022	Up
113612	CYP2U1	cytochrome P450 family 2 subfamily U member 1	0.881	1.869	Up
51176	LEF1	lymphoid enhancer binding factor 1	1.232	3.709	Up
641518	LEF1-AS1	LEF1 antisense RNA 1	1.291	3.222	Up
55013	MCUB	mitochondrial calcium uniporter dominant negative subunit beta	1.148	3.903	Up
7222	TRPC3	transient receptor potential cation channel subfamily C member 3	3.822	3.546	Up
84162	BLTP1	bridge-like lipid transfer protein family member 1	1.181	1.867	Up
166379	BBS12	Bardet-Biedl syndrome 12	0.682	1.651	Up
79960	JADE1	jade family PHD finger 1	0.891	4.111	Up
1998	ELF2	E74 like ETS transcription factor 2	0.879	4.664	Up
83452	RAB33B	RAB33B, member RAS oncogene family	0.383	1.695	Up
57484	RNF150	ring finger protein 150	5.343	2.325	Up
1.05E+08	LOC105377623	uncharacterized LOC105377623	1.095	1.335	Up
4306	NR3C2	nuclear receptor subfamily 3 group C member 2	1.433	13.406	Up

152503	SH3D19	SH3 domain containing 19	1.544	1.361	Up
1.08E+08	LOC107986196	uncharacterized LOC107986196	1.364	2.311	Up
201799	TMEM154	transmembrane protein 154	1.371	5.925	Up
285533	RNF175	ring finger protein 175	2.731	4.548	Up
56034	PDGFC	platelet derived growth factor C	2.548	2.012	Up
51313	GASK1B	golgi associated kinase 1B	5.384	4.701	Up
3148	HMGB2	high mobility group box 2	0.925	9.486	Up
1.05E+08	SAP30-DT	SAP30 divergent transcript	1.433	1.961	Up
55602	CDKN2AIP	CDKN2A interacting protein	0.941	4.942	Up
83891	SNX25	sorting nexin 25	0.666	1.413	Up
55325	UFSP2	UFM1 specific peptidase 2	0.451	2.096	Up
285440	CYP4V2	cytochrome P450 family 4 subfamily V member 2	0.769	2.471	Up
133957	CCDC127	coiled-coil domain containing 127	0.363	1.631	Up
11076	TPPP	tubulin polymerization promoting protein	1.431	1.91	Up
653082	ZDHHC11B	zinc finger DHHC-type containing 11B	1.68	1.529	Up
1.02E+08	LOC101929200	uncharacterized LOC101929200	1.386	3.651	Up
11044	TENT4A	terminal nucleotidyltransferase 4A	0.564	2.561	Up
1.01E+08	SNHG18	small nucleolar RNA host gene 18	2.224	2.072	Up
54491	OTULINL	OTU deubiquitinase with linear linkage specificity like	0.979	6.112	Up
56172	ANKH	ANKH inorganic pyrophosphate transport regulator	0.786	3.917	Up
1E+08	LOC100130744	uncharacterized LOC100130744	0.552	2.513	Up
54463	RETREG1	reticulophagy regulator 1	1.281	10.06	Up
1.02E+08	RETREG1-AS1	RETREG1 antisense RNA 1	1.297	2.626	Up
1.02E+08	TTC23L-AS1	TTC23L antisense RNA 1	1.254	1.329	Up
3575	IL7R	interleukin 7 receptor	1.919	7.78	Up
253260	RICTOR	RPTOR independent companion of MTOR complex 2	0.601	1.749	Up
2533	FYB1	FYN binding protein 1	1.367	7.479	Up
1601	DAB2	DAB adaptor protein 2	1.644	2.194	Up
1.05E+08	LOC105374746	uncharacterized LOC105374746	1.384	3.132	Up
1.05E+08	LOC105374748	uncharacterized LOC105374748	1.069	1.928	Up
389289	ANXA2R	annexin A2 receptor	1.305	6.108	Up
1.01E+08	NNT-AS1	NNT antisense RNA 1	0.713	2.304	Up
23530	NNT	nicotinamide nucleotide transhydrogenase	0.565	1.737	Up
133418	EMB	embigin	0.844	3.155	Up
79668	PARP8	poly(ADP-ribose) polymerase family member 8	0.723	2.287	Up
10468	FST	follistatin	2.951	1.323	Up
112574	SNX18	sorting nexin 18	0.536	2.571	Up
3572	IL6ST	interleukin 6 cytokine family signal transducer	0.725	2.13	Up
79722	ANKRD55	ankyrin repeat domain 55	1.882	3.815	Up
1.02E+08	LOC101928419	uncharacterized LOC101928419	2.149	1.53	Up
4214	MAP3K1	mitogen-activated protein kinase kinase kinase 1	0.936	12.172	Up

1.05E+08	LOC105378980	uncharacterized LOC105378980	0.985	5.973	Up
202309	GAPT	GRB2 binding adaptor protein, transmembrane	2.163	2.579	Up
5144	PDE4D	phosphodiesterase 4D	0.555	1.326	Up
11174	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif 6	1.802	2.057	Up
64105	CENPK	centromere protein K	1.332	5.336	Up
373	TRIM23	tripartite motif containing 23	0.562	1.975	Up
54557	SGTB	small glutamine rich tetratricopeptide repeat co-chaperone beta	0.899	2.405	Up
55914	ERBIN	erbb2 interacting protein	0.603	3.535	Up
5295	PIK3R1	phosphoinositide-3-kinase regulatory subunit 1	0.655	5.074	Up
115548	FCHO2	FCH and mu domain containing endocytic adaptor 2	1.115	2.277	Up
57763	ANKRA2	ankyrin repeat family A member 2	0.559	2.234	Up
51301	GCNT4	glucosaminyl (N-acetyl) transferase 4	0.721	1.914	Up
10788	IQGAP2	IQ motif containing GTPase activating protein 2	0.981	2.064	Up
2150	F2RL1	F2R like trypsin receptor 1	1.336	9.182	Up
728769	SCAMP1-AS1	SCAMP1 antisense RNA 1	1.033	2.501	Up
9522	SCAMP1	secretory carrier membrane protein 1	0.605	2.443	Up
10184	LHFPL2	LHFPL tetraspan subfamily member 2	1.937	3.419	Up
133746	JMY	junction mediating and regulatory protein, p53 cofactor	0.626	1.324	Up
1.02E+08	THBS4-AS1	THBS4 antisense RNA 1	1.902	2.039	Up
256987	SERINC5	serine incorporator 5	1.22	10.849	Up
1.03E+08	RASGRF2-AS1	RASGRF2 antisense RNA 1	1.393	1.68	Up
5924	RASGRF2	Ras protein specific guanine nucleotide releasing factor 2	1.339	6.054	Up
1160	CKMT2	creatine kinase, mitochondrial 2	1.309	6.075	Up
1E+08	CKMT2-AS1	CKMT2 antisense RNA 1	0.927	2.952	Up
153364	MBLAC2	metallo-beta-lactamase domain containing 2	0.899	2.788	Up
57561	ARRDC3	arrestin domain containing 3	0.98	1.88	Up
83989	FAM172A	family with sequence similarity 172 member A	0.55	2.48	Up
285600	KIAA0825	KIAA0825	0.909	1.599	Up
153642	ARSK	arylsulfatase family member K	0.836	1.756	Up
285601	GPR150	G protein-coupled receptor 150	1.909	3.27	Up
2745	GLRX	glutaredoxin	0.815	2.964	Up
285704	RGMB	repulsive guidance molecule BMP co-receptor b	1.839	18.29	Up
5066	PAM	peptidylglycine alpha-amidating monooxygenase	0.634	1.999	Up
64839	FBXL17	F-box and leucine rich repeat protein 17	0.547	1.636	Up
2241	FER	FER tyrosine kinase	0.613	1.739	Up
4124	MAN2A1	mannosidase alpha class 2A member 1	0.744	3.789	Up
814	CAMK4	calcium/calmodulin dependent protein kinase IV	0.85	1.825	Up
114915	EPB41L4A-AS1	EPB41L4A antisense RNA 1	1.335	2.657	Up
153733	CCDC112	coiled-coil domain containing 112	0.797	1.498	Up
153241	CEP120	centrosomal protein 120	0.755	2.468	Up
501	ALDH7A1	aldehyde dehydrogenase 7 family member A1	1.977	1.474	Up
51735	RAPGEF6	Rap guanine nucleotide exchange factor 6	1.003	4.134	Up
23305	ACSL6	acyl-CoA synthetase long chain family member 6	2.653	11.378	Up
1.05E+08	LOC105379185	replaced by ID 7416	2.498	2.964	Up
6932	TCF7	transcription factor 7	1.479	13.346	Up

23338	JADE2	jade family PHD finger 2	0.624	1.814	Up
819	CAMLG	calcium modulating ligand	0.672	1.819	Up
140947	DCANP1	dendritic cell associated nuclear protein 1	2.136	1.595	Up
497189	TIFAB	TIFA inhibitor	2.062	2.248	Up
7045	TGFBI	transforming growth factor beta induced	3.955	9.434	Up
26249	KLHL3	kelch like family member 3	2.37	11.982	Up
51523	CXXC5	CXXC finger protein 5	0.994	2.219	Up
1.01E+08	MALINC1	mitosis associated long intergenic non-coding RNA 1	1.544	8.341	Up
929	CD14	CD14 molecule	3.28	9.259	Up
373863	DND1	DND microRNA-mediated repression inhibitor 1	0.833	2.364	Up
23438	HARS2	histidyl-tRNA synthetase 2, mitochondrial	0.487	3.096	Up
2908	NR3C1	nuclear receptor subfamily 3 group C member 1	0.619	1.461	Up
9832	JAKMIP2	janus kinase and microtubule interacting protein 2	1.503	1.756	Up
78991	PCYOX1L	prenylcysteine oxidase 1 like	0.954	4.663	Up
1436	CSF1R	colony stimulating factor 1 receptor	3.277	2.48	Up
2760	GM2A	ganglioside GM2 activator	1.109	2.707	Up
79685	SAP30L	SAP30 like	0.811	2.735	Up
9337	CNOT8	CCR4-NOT transcription complex subunit 8	0.533	1.476	Up
26762	HAVCR1	hepatitis A virus cellular receptor 1	2.956	4.25	Up
3702	ITK	IL2 inducible T cell kinase	0.44	1.6	Up
26999	CYFIP2	cytoplasmic FMR1 interacting protein 2	0.39	1.721	Up
114825	PWWP2A	PWWP domain containing 2A	0.441	2.578	Up
1.05E+08	LOC105377700	uncharacterized LOC105377700	0.527	1.435	Up
6793	STK10	serine/threonine kinase 10	0.545	1.413	Up
285590	SH3PXD2B	SH3 and PX domains 2B	1.203	1.659	Up
1843	DUSP1	dual specificity phosphatase 1	0.707	1.54	Up
57222	ERGIC1	endoplasmic reticulum-golgi intermediate compartment 1	0.476	2.187	Up
153222	CREBRF	CREB3 regulatory factor	0.681	3.572	Up
91272	BOD1	biorientation of chromosomes in cell division 1	0.457	1.488	Up
1.08E+08	LOC107986483		2.471	1.462	Up
1.05E+08	LOC105377746		2.237	2.003	Up
22838	RNF44	ring finger protein 44	0.983	4.218	Up
53917	RAB24	RAB24, member RAS oncogene family	0.533	2.555	Up
10636	RGS14	regulator of G protein signaling 14	0.653	2.57	Up
340037	PRR7-AS1	PRR7 antisense RNA 1	1.828	1.43	Up
79930	DOK3	docking protein 3	1.887	2.557	Up
285596	FAM153A	family with sequence similarity 153 member A	1.514	1.48	Up
57396	CLK4	CDC like kinase 4	1.081	3.138	Up
6940	ZNF354A	zinc finger protein 354A	0.523	2.104	Up
30832	ZNF354C	zinc finger protein 354C	0.353	1.583	Up
51149	MRNIP	MRN complex interacting protein	0.466	1.422	Up
1.01E+08	MRNIP-DT	MRNIP divergent transcript	1.531	1.679	Up
55819	RNF130	ring finger protein 130	1.544	10.75	Up
4245	MGAT1	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	0.437	3.185	Up
1.01E+08	HEIH	hepatocellular carcinoma up-regulated EZH2-associated long non-coding RNA	0.984	6.248	Up

729678	LINC00847	long intergenic non-protein coding RNA 847	1.287	11.924	Up
643836	ZFP62	ZFP62 zinc finger protein	0.601	2.669	Up
81786	TRIM7	tripartite motif containing 7	1.798	4.077	Up
1.02E+08	CTC-338M12.4	uncharacterized LOC101928649	0.859	2.023	Up
84851	TRIM52	tripartite motif containing 52	0.777	9.196	Up
1.01E+08	MIR4645	microRNA 4645	3.112	2.059	Up
221756	SERPINB9P1	serpin family B member 9 pseudogene 1	1.174	2.707	Up
401232	LINC01011	long intergenic non-protein coding RNA 1011	2.628	9.074	Up
63027	SLC22A23	solute carrier family 22 member 23	1.238	3.249	Up
643327	LOC643327	uncharacterized LOC643327	1.955	1.571	Up
6239	RREB1	ras responsive element binding protein 1	0.944	1.361	Up
221692	PHACTR1	phosphatase and actin regulator 1	1.861	3.629	Up
23408	SIRT5	sirtuin 5	0.537	2.174	Up
29116	MYLIP	myosin regulatory light chain interacting protein	1.241	6.227	Up
51439	FAM8A1	family with sequence similarity 8 member A1	1.459	10.096	Up
7913	DEK	DEK proto-oncogene	0.667	7.61	Up
9750	RIPOR2	RHO family interacting cell polarization regulator 2	1.391	11.039	Up
1.05E+08	LOC105374981	uncharacterized LOC105374981	2.063	4.319	Up
3006	H1-2	H1.2 linker histone, cluster member	1.223	2.255	Up
8334	H2AC6	H2A clustered histone 6	1.965	3.441	Up
3017	H2BC5	H2B clustered histone 5	2.556	4.122	Up
11118	BTN3A2	butyrophilin subfamily 3 member A2	1.044	10.849	Up
11119	BTN3A1	butyrophilin subfamily 3 member A1	0.831	4.603	Up
10384	BTN3A3	butyrophilin subfamily 3 member A3	0.688	3.317	Up
85236	H2BC12	H2B clustered histone 12	0.937	2.586	Up
7754	ZNF204P	zinc finger protein 204, pseudogene	1.526	4.59	Up
7745	ZKSCAN8	zinc finger with KRAB and SCAN domains 8	0.541	2.32	Up
387032	ZKSCAN4	zinc finger with KRAB and SCAN domains 4	0.807	3.753	Up
7741	ZSCAN26	zinc finger and SCAN domain containing 26	0.636	3.171	Up
80317	ZKSCAN3	zinc finger with KRAB and SCAN domains 3	1.203	4.638	Up
80862	POLR1HASP	POLR1H antisense, pseudogene	1.16	2.293	Up
414777	HCG18	HLA complex group 18	0.324	1.675	Up
56658	TRIM39	tripartite motif containing 39	0.617	4.062	Up
3133	HLA-E	major histocompatibility complex, class I, E	0.814	4.384	Up
401247	LINC00243	long intergenic non-protein coding RNA 243	2.05	4.944	Up
780	DDR1	discoidin domain receptor tyrosine kinase 1	0.918	2.859	Up
4795	NFKBIL1	NFKB inhibitor like 1	0.883	5.623	Up
80741	LY6G5C	lymphocyte antigen 6 family member G5C	0.959	1.97	Up
50854	SNHG32	small nucleolar RNA host gene 32	1.273	3.761	Up
10919	EHMT2	euchromatic histone lysine methyltransferase 2	0.563	2.763	Up
1.08E+08	EHMT2-AS1	EHMT2 and SLC44A4 antisense RNA 1	0.464	1.334	Up
7148	TNXB	tenascin XB	1.684	1.52	Up
63943	FKBPL	FKBP prolyl isomerase like	0.572	1.31	Up
80863	PRRT1	proline rich transmembrane protein 1	1.928	4.525	Up
63940	GPSM3	G protein signaling modulator 3	0.972	6.525	Up
3109	HLA-DMB	major histocompatibility complex, class II, DM beta	1.537	2.553	Up
3115	HLA-DPB1	major histocompatibility complex, class II, DP beta 1	1.213	1.335	Up
8705	B3GALT4	beta-1,3-galactosyltransferase 4	0.944	5.516	Up

5863	RGL2	ral guanine nucleotide dissociation stimulator like 2	0.575	1.34	Up
9278	ZBTB22	zinc finger and BTB domain containing 22	0.548	1.759	Up
5252	PHF1	PHD finger protein 1	0.463	1.925	Up
51596	CUTA	cutA divalent cation tolerance homolog	0.722	1.416	Up
8831	SYNGAP1	synaptic Ras GTPase activating protein 1	0.912	1.692	Up
221491	SMIM29	small integral membrane protein 29	0.68	2.906	Up
50619	DEF6	DEF6 guanine nucleotide exchange factor	0.871	5.074	Up
5467	PPARD	peroxisome proliferator activated receptor delta	1.009	7.932	Up
2289	FKBP5	FKBP prolyl isomerase 5	0.925	9.206	Up
11329	STK38	serine/threonine kinase 38	1.906	15.665	Up
221476	PI16	peptidase inhibitor 16	1.758	1.574	Up
1.01E+08	LINC02520	long intergenic non-protein coding RNA 2520	1.316	1.602	Up
60685	ZFAND3	zinc finger AN1-type containing 3	0.418	1.645	Up
222643	UNC5CL	unc-5 family C-terminal like	1.879	2.067	Up
221443	OARD1	O-acyl-ADP-ribose deacylase 1	0.759	3.806	Up
54209	TREM2	triggering receptor expressed on myeloid cells 2	5.255	4.575	Up
896	CCND3	cyclin D3	0.642	2.119	Up
6903	TBCC	tubulin folding cofactor C	0.453	1.981	Up
23506	BICRAL	BICRA like chromatin remodeling complex associated protein	0.695	3.696	Up
441150	C6orf226	chromosome 6 open reading frame 226	0.821	2.05	Up
10695	CNPY3	canopy FGF signaling regulator 3	0.677	4.458	Up
1.07E+08	CNPY3-GNMT	CNPY3-GNMT readthrough	0.674	4.319	Up
5190	PEX6	peroxisomal biogenesis factor 6	1.062	10.14	Up
89953	KLC4	kinesin light chain 4	1.037	3.602	Up
23113	CUL9	cullin 9	0.555	1.797	Up
24149	ZNF318	zinc finger protein 318	0.764	2.288	Up
221400	TDRD6	tudor domain containing 6	3.299	5.868	Up
7941	PLA2G7	phospholipase A2 group VII	3.329	7.276	Up
85315	PAQR8	progestin and adipoQ receptor family member 8	0.819	1.354	Up
114327	EFHC1	EF-hand domain containing 1	1.125	1.762	Up
9697	TRAM2	translocation associated membrane protein 2	0.945	2.595	Up
22858	CILK1	ciliogenesis associated kinase 1	0.713	2.371	Up
26268	FBXO9	F-box protein 9	0.472	3.31	Up
375513	GUSBP4	GUSB pseudogene 4	1.7	2.076	Up
23469	PHF3	PHD finger protein 3	0.897	1.682	Up
55788	LMBRD1	LMBR1 domain containing 1	0.588	2.061	Up
79627	OGFRL1	opioid growth factor receptor like 1	0.769	2.316	Up
26503	SLC17A5	solute carrier family 17 member 5	0.554	2.27	Up
55603	TENT5A	terminal nucleotidyltransferase 5A	0.716	1.977	Up
23033	DOP1A	DOP1 leucine zipper like protein A	0.817	3.517	Up
5238	PGM3	phosphoglucomutase 3	0.518	2.685	Up
112611	RWDD2A	RWD domain containing 2A	1.396	5.973	Up
167681	PRSS35	serine protease 35	2.267	1.432	Up
10957	PNRC1	proline rich nuclear receptor coactivator 1	0.343	1.599	Up
9994	CASP8AP2	caspase 8 associated protein 2	0.849	2.372	Up
23376	UFL1	UFM1 specific ligase 1	0.498	2.57	Up
114792	KLHL32	kelch like family member 32	1.309	6.136	Up
57531	HACE1	HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1	0.477	1.398	Up

202	CRYBG1	crystallin beta-gamma domain containing 1	0.703	1.984	Up
256380	SCML4	Scm polycomb group protein like 4	1.896	6.634	Up
2309	FOXO3	forkhead box O3	0.714	2.724	Up
27244	SESN1	sestrin 1	1.105	2.56	Up
23097	CDK19	cyclin dependent kinase 19	0.996	7.887	Up
117247	SLC16A10	solute carrier family 16 member 10	1.665	2.596	Up
2534	FYN	FYN proto-oncogene, Src family tyrosine kinase	1.057	8.703	Up
1.05E+08	LOC105377945	uncharacterized LOC105377945	1.048	9.769	Up
1.03E+08	LOC102724646	uncharacterized LOC102724646	1.137	3.505	Up
3841	KPNA5	karyopherin subunit alpha 5	0.623	2.963	Up
254394	MCM9	minichromosome maintenance 9 homologous recombination repair factor	0.507	1.706	Up
221322	TBC1D32	TBC1 domain family member 32	0.656	1.317	Up
57515	SERINC1	serine incorporator 1	0.443	1.548	Up
387357	THEMIS	thymocyte selection associated	0.837	1.922	Up
154075	SAMD3	sterile alpha motif domain containing 3	1.15	1.975	Up
9465	AKAP7	A-kinase anchoring protein 7	1.193	1.818	Up
8875	VNN2	vanin 2	1.683	2.908	Up
116843	SLC18B1	solute carrier family 18 member B1	1.177	4.647	Up
27115	PDE7B	phosphodiesterase 7B	2.47	4.481	Up
3459	IFNGR1	interferon gamma receptor 1	0.374	1.471	Up
1E+08	WAKMAR2	wound and keratinocyte migration associated lncRNA 2	1.877	4.15	Up
1.08E+08	LOC107986649		2.288	11.109	Up
23593	HEBP2	heme binding protein 2	0.569	5.258	Up
25901	CCDC28A	coiled-coil domain containing 28A	0.897	2.158	Up
85021	REPS1	RALBP1 associated Eps domain containing 1	0.444	2.146	Up
51696	HECA	hdc homolog, cell cycle regulator	0.728	3.711	Up
10370	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2	1.322	10.794	Up
7402	UTRN	utrophin	1.405	2.785	Up
57621	ZBTB2	zinc finger and BTB domain containing 2	0.515	2.052	Up
55005	RMND1	required for meiotic nuclear division 1 homolog	0.76	1.458	Up
23345	SYNE1	spectrin repeat containing nuclear envelope protein 1	0.99	7.96	Up
26034	IPCEF1	interaction protein for cytohesin exchange factors 1	0.908	3.845	Up
94120	SYTL3	synaptotagmin like 3	0.723	1.867	Up
56895	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4	0.852	1.506	Up
5071	PRKN	parkin RBR E3 ubiquitin protein ligase	1.388	1.329	Up
8635	RNASET2	ribonuclease T2	1.191	6.191	Up
253769	WDR27	WD repeat domain 27	1.299	1.934	Up
55274	PHF10	PHD finger protein 10	0.49	4.578	Up
1.01E+08	LINC03014	long intergenic non-protein coding RNA 3014	0.832	1.341	Up
56975	FAM20C	FAM20C golgi associated secretory pathway kinase	3.232	4.863	Up
23353	SUN1	Sad1 and UNC84 domain containing 1	0.57	3.537	Up
115330	GPR146	G protein-coupled receptor 146	1.723	10.029	Up
8379	MAD1L1	mitotic arrest deficient 1 like 1	1.362	19.695	Up
645700	ZNF890P	zinc finger protein 890, pseudogene	2.332	4.371	Up
26100	WIPI2	WD repeat domain, phosphoinositide interacting 2	0.678	3.008	Up
401303	ZNF815P	zinc finger protein 815, pseudogene	2.257	13.306	Up

654231	OCM	oncomodulin	2.661	4.598	Up
9265	CYTH3	cytohesin 3	1.223	2.942	Up
221955	DAGLB	diacylglycerol lipase beta	1.078	2.002	Up
7559	ZNF12	zinc finger protein 12	0.426	2.847	Up
729852	UMAD1	UBAP1-MVB12-associated (UMA) domain containing 1	0.714	2.235	Up
113263	GLCCI1	glucocorticoid induced 1	0.406	1.392	Up
85477	SCIN	scinderin	4.921	3.431	Up
54543	TOMM7	translocase of outer mitochondrial membrane 7	0.704	1.355	Up
10457	GPNMB	glycoprotein nmb	4.398	25.16	Up
54504	CPVL	carboxypeptidase vitellogenic like	3.852	4.148	Up
222166	MTURN	maturin, neural progenitor differentiation regulator homolog	0.611	2.658	Up
222161	DKFZP586I1420	uncharacterized protein DKFZp586I1420	0.583	1.962	Up
10392	NOD1	nucleotide binding oligomerization domain containing 1	0.747	2.31	Up
1.05E+08	LOC105375219	uncharacterized LOC105375219	3.248	3.115	Up
25948	KBTBD2	kelch repeat and BTB domain containing 2	0.356	2.07	Up
27241	BBS9	Bardet-Biedl syndrome 9	0.591	1.353	Up
64224	HERPUD2	HERPUD family member 2	0.632	2.601	Up
80820	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1	1.938	5.069	Up
313	AOAH	acyloxyacyl hydrolase	2.658	2.002	Up
445347	TARP	TCR gamma alternate reading frame protein	0.442	1.303	Up
1.01E+08	TRG-AS1	T cell receptor gamma locus antisense RNA 1	1.642	7.039	Up
401331	RASA4CP	RAS p21 protein activator 4C, pseudogene	0.772	3.682	Up
255031	LINC00957	long intergenic non-protein coding RNA 957	1.168	5.777	Up
5224	PGAM2	phosphoglycerate mutase 2	1.391	1.424	Up
27434	POLM	DNA polymerase mu	0.652	1.494	Up
83605	CCM2	CCM2 scaffold protein	0.79	8.028	Up
3486	IGFBP3	insulin like growth factor binding protein 3	1.073	1.699	Up
64759	TNS3	tensin 3	1.349	1.452	Up
7378	UPP1	uridine phosphorylase 1	0.576	1.393	Up
10320	IKZF1	IKAROS family zinc finger 1	0.524	3.208	Up
25870	SUMF2	sulfatase modifying factor 2	0.602	1.875	Up
5260	PHKG1	phosphorylase kinase catalytic subunit gamma 1	0.579	1.31	Up
340252	ZNF680	zinc finger protein 680	0.583	1.32	Up
441242	LINC03006	long intergenic non-protein coding RNA 3006	1.325	2.947	Up
643253	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1	1.123	3.103	Up
1E+08	LINC03011	long intergenic non-protein coding RNA 3011	1.353	1.919	Up
154881	KCTD7	potassium channel tetramerization domain containing 7	1.035	3.662	Up
644794	LINC02604	long intergenic non-protein coding RNA 2604	1.708	1.637	Up
654816	NCF1B	neutrophil cytosolic factor 1B pseudogene	1.143	2.864	Up
653361	NCF1	neutrophil cytosolic factor 1	1.14	1.595	Up
654817	NCF1C	neutrophil cytosolic factor 1C pseudogene	1.265	2.328	Up
155400	NSUN5P1	NSUN5 pseudogene 1	0.703	1.358	Up
57414	RHBDD2	rhomboid domain containing 2	0.889	7.147	Up
1.01E+08	SPDYE18	speedy/RINGO cell cycle regulator family member E18	1.706	1.637	Up
222194	RSBN1L	round spermatid basic protein 1 like	0.609	2.55	Up
948	CD36	CD36 molecule	1.272	1.343	Up

10371	SEMA3A	semaphorin 3A	2.454	1.58	Up
11257	TP53TG1	TP53 target 1	1.296	3.94	Up
54677	CROT	carnitine O-octanoyltransferase	0.633	1.785	Up
5244	ABCB4	ATP binding cassette subfamily B member 4	1.123	2.16	Up
53616	ADAM22	ADAM metallopeptidase domain 22	1.367	1.848	Up
5218	CDK14	cyclin dependent kinase 14	2.037	1.858	Up
8321	FZD1	frizzled class receptor 1	1.318	1.419	Up
5166	PDK4	pyruvate dehydrogenase kinase 4	3.955	5.862	Up
25851	TECPR1	tectonin beta-propeller repeat containing 1	1.434	7.587	Up
25798	BRI3	brain protein I3	0.43	1.416	Up
221786	FAM200A	family with sequence similarity 200 member A	0.515	1.96	Up
221785	ZSCAN25	zinc finger and SCAN domain containing 25	0.368	2.453	Up
89122	TRIM4	tripartite motif containing 4	0.609	3.469	Up
7551	ZNF3	zinc finger protein 3	0.463	1.579	Up
245812	CNPY4	canopy FGF signaling regulator 4	0.737	1.841	Up
79690	GAL3ST4	galactose-3-O-sulfotransferase 4	2.439	4.032	Up
221914	GPC2	glypican 2	2.158	1.95	Up
352954	CASTOR3P	CASTOR family member 3, pseudogene	0.767	3.547	Up
1E+08	SAP25	Sin3A associated protein 25	1.76	2.256	Up
4034	LRCH4	leucine rich repeats and calponin homology domain containing 4	0.803	3.189	Up
1.02E+08	ZASP		0.853	2.347	Up
56996	SLC12A9	solute carrier family 12 member 9	0.503	1.591	Up
54784	ALKBH4	alkB homolog 4, lysine demethylase	0.416	1.433	Up
1E+08	RASA4B	RAS p21 protein activator 4B	1.018	2.388	Up
10156	RASA4	RAS p21 protein activator 4	0.998	2.401	Up
1E+08	RASA4DP	RAS p21 protein activator 4D, pseudogene	1.001	2.701	Up
349152	DPY19L2P2	DPY19L2 pseudogene 2	0.672	1.765	Up
6733	SRPK2	SRSF protein kinase 2	0.367	1.921	Up
222255	ATXN7L1	ataxin 7 like 1	1.764	13.157	Up
222256	CDHR3	cadherin related family member 3	2.203	7.365	Up
5294	PIK3CG	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	0.539	1.711	Up
26959	HBP1	HMG-box transcription factor 1	0.842	3.027	Up
1.02E+08	CBLL1-AS1	CBLL1 antisense RNA 1	1.688	3.76	Up
79872	CBLL1	Cbl proto-oncogene like 1	0.576	1.94	Up
11179	ZNF277	zinc finger protein 277	0.837	1.45	Up
10157	AASS	aminoadipate-semialdehyde synthase	0.912	1.562	Up
8976	WASL	WASP like actin nucleation promoting factor	0.384	1.425	Up
401398	POT1-AS1	POT1 antisense RNA 1	1.412	1.857	Up
23382	AHCYL2	adenosylhomocysteinase like 2	0.493	2.56	Up
7328	UBE2H	ubiquitin conjugating enzyme E2 H	0.38	1.355	Up
29062	WDR91	WD repeat domain 91	0.621	2.043	Up
1E+08	KDM7A-DT	KDM7A divergent transcript	1.122	1.975	Up
285962	WEE2-AS1	WEE2 antisense RNA 1	1.803	1.909	Up
23601	CLEC5A	C-type lectin domain containing 5A	2.814	3.142	Up
1.05E+08	LOC105375539	uncharacterized LOC105375539	2.011	2.293	Up
28602	TRBV6-5	T cell receptor beta variable 6-5	0.784	1.479	Up

1.08E+08	LOC107986855	uncharacterized LOC107986855	0.816	1.888	Up
28611	TRBV5-4	T cell receptor beta variable 5-4	0.647	2.006	Up
1.05E+08	LOC105379749	uncharacterized LOC105379749	1.501	4.217	Up
28601	TRBV6-6	T cell receptor beta variable 6-6	0.933	2.231	Up
28589	TRBV7-9	T cell receptor beta variable 7-9	0.907	1.677	Up
28583	TRBV10-3	T cell receptor beta variable 10-3	0.905	1.999	Up
28577	TRBV12-3	T cell receptor beta variable 12-3	0.842	1.372	Up
28573	TRBV14	T cell receptor beta variable 14	1.238	2.952	Up
28569	TRBV18	T cell receptor beta variable 18	1.15	2.3	Up
28568	TRBV19	T cell receptor beta variable 19	1.174	2.881	Up
28566	TRBV21-1	T cell receptor beta variable 21-1 (pseudogene)	0.931	2.27	Up
5644	PRSS1	serine protease 1	0.877	2.342	Up
28558	TRBV29-1	T cell receptor beta variable 29-1	0.87	2.296	Up
28637	TRBD1	T cell receptor beta diversity 1	1.194	2.95	Up
28630	TRBJ1-6	T cell receptor beta joining 1-6	1.252	2.875	Up
28639	TRBC1	T cell receptor beta constant 1	0.778	1.687	Up
28622	TRBJ2-7	T cell receptor beta joining 2-7	0.725	1.564	Up
28638	TRBC2	T cell receptor beta constant 2	0.656	1.524	Up
28557	TRBV30	T cell receptor beta variable 30	1.178	2.548	Up
1.05E+08	LOC105375541	uncharacterized LOC105375541	1.147	1.889	Up
2051	EPHB6	EPH receptor B6	1.017	3.512	Up
136051	ZNF786	zinc finger protein 786	0.457	1.319	Up
155054	ZNF425	zinc finger protein 425	1.461	5.695	Up
168544	ZNF467	zinc finger protein 467	1.637	3.175	Up
643641	ZNF862	zinc finger protein 862	1.207	4.882	Up
401431	ATP6V0E2-AS1	ATP6V0E2 antisense RNA 1	1.632	4.514	Up
1.05E+08	REPIN1-AS1	REPIN1 antisense RNA 1	1.02	2.402	Up
1.08E+08	LOC107986859		1.413	1.533	Up
728743	LOC728743	zinc finger domain-containing protein LOC728743	1.277	7.724	Up
155038	GIMAP8	GTPase, IMAP family member 8	1.624	10.716	Up
168537	GIMAP7	GTPase, IMAP family member 7	1.525	10.571	Up
55303	GIMAP4	GTPase, IMAP family member 4	1.577	7.06	Up
474344	GIMAP6	GTPase, IMAP family member 6	1.41	9.886	Up
26157	GIMAP2	GTPase, IMAP family member 2	1.615	5.688	Up
1.01E+08	GIMAP1-GIMAP5	GIMAP1-GIMAP5 readthrough	1.436	8.196	Up
170575	GIMAP1	GTPase, IMAP family member 1	1.992	24.637	Up
55340	GIMAP5	GTPase, IMAP family member 5	1.357	5.926	Up
26	AOC1	amine oxidase copper containing 1	4.432	3.192	Up
4846	NOS3	nitric oxide synthase 3	0.685	2.202	Up
285973	ATG9B	autophagy related 9B	1.534	17.016	Up
9311	ASIC3	acid sensing ion channel subunit 3	1.27	1.467	Up
116988	AGAP3	ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	0.815	1.556	Up
1.14E+08	H2BK1	H2B.K variant histone 1	1.724	2.055	Up

6604	SMARCD3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	1.621	5.231	Up
1E+08	WDR86-AS1	WDR86 antisense RNA 1	3.225	4.611	Up
51422	PRKAG2	protein kinase AMP-activated non-catalytic subunit gamma 2	0.394	2.122	Up
1.01E+08	PRKAG2-AS1	PRKAG2 antisense RNA 1	0.687	1.606	Up
1E+08	LINC01003	long intergenic non-protein coding RNA 1003	0.897	1.951	Up
202781	PAXIP1-DT	PAXIP1 divergent transcript	0.882	3.244	Up
1.01E+08	PTPRN2-AS1	PTPRN2 antisense RNA 1	4.952	2.137	Up
57488	ESYT2	extended synaptotagmin 2	0.717	3.431	Up
26260	FBXO25	F-box protein 25	0.617	1.782	Up
1.02E+08	CLN8-AS1	CLN8 antisense RNA 1	1.007	3.32	Up
1.05E+08	LOC105377782	uncharacterized LOC105377782	2.869	1.318	Up
157285	PRAG1	PEAK1 related, kinase-activating pseudokinase 1	1.384	4.311	Up
137075	CLDN23	claudin 23	4.156	2.898	Up
79660	PPP1R3B	protein phosphatase 1 regulatory subunit 3B	0.838	2.164	Up
8658	TNKS	tankyrase	0.729	2.503	Up
286046	XKR6	XK related 6	0.84	1.471	Up
1508	CTSB	cathepsin B	0.703	1.306	Up
85002	FAM86B1	family with sequence similarity 86 member B1	0.815	1.361	Up
619423	FAM85A	family with sequence similarity 85 member A	1.527	1.453	Up
1.01E+08	FAM86B2-DT	FAM86B2 divergent transcript	1.459	9.844	Up
4481	MSR1	macrophage scavenger receptor 1	2.69	2.607	Up
427	ASAH1	N-acylsphingosine amidohydrolase 1	0.937	3.72	Up
55790	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1	2.399	21.617	Up
55174	INTS10	integrator complex subunit 10	0.657	2.556	Up
4023	LPL	lipoprotein lipase	2.006	3.364	Up
2675	GFRA2	GDNF family receptor alpha 2	5.457	2.465	Up
10174	SORBS3	sorbin and SH3 domain containing 3	0.904	1.71	Up
1.05E+08	LOC105379326		1.671	4.603	Up
10863	ADAM28	ADAM metallopeptidase domain 28	1.831	2.019	Up
4747	NEFL	neurofilament light chain	1.351	1.626	Up
157489	SDAD1P1	SDA1 domain containing 1 pseudogene 1	1.024	2.202	Up
1.05E+08	LOC105379337		1.777	1.742	Up
1808	DPYSL2	dihydropyrimidinase like 2	1.354	5.486	Up
23087	TRIM35	tripartite motif containing 35	0.427	1.371	Up
1191	CLU	clusterin	1.212	3.257	Up
55893	ZNF395	zinc finger protein 395	0.877	4.296	Up
51669	SARAF	store-operated calcium entry associated regulatory factor	1.347	5.803	Up
23484	LEPROTL1	leptin receptor overlapping transcript like 1	1.17	4.056	Up
8754	ADAM9	ADAM metallopeptidase domain 9	1.301	1.446	Up
286	ANK1	ankyrin 1	0.973	1.339	Up
7994	KAT6A	lysine acetyltransferase 6A	0.993	4.015	Up
1.08E+08	LOC107986939	uncharacterized LOC107986939	2.011	4.296	Up
10947	AP3M2	adaptor related protein complex 3 subunit mu 2	0.751	1.812	Up

6575	SLC20A2	solute carrier family 20 member 2	0.54	2.163	Up
81790	RNF170	ring finger protein 170	0.578	2.693	Up
1052	CEBPD	CCAAT enhancer binding protein delta	1.036	1.775	Up
115294	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	0.949	2.584	Up
1.03E+08	PCMTD1-DT	PCMTD1 divergent transcript	1.384	3.536	Up
9821	RB1CC1	RB1 inducible coiled-coil 1	0.628	3.587	Up
5324	PLAG1	PLAG1 zinc finger	1.147	2.635	Up
9760	TOX	thymocyte selection associated high mobility group box	0.682	1.622	Up
444	ASPH	aspartate beta-hydroxylase	1.067	4.15	Up
5150	PDE7A	phosphodiesterase 7A	0.998	5.51	Up
1.08E+08	LOC107986948		0.808	1.657	Up
137872	ADHFE1	alcohol dehydrogenase iron containing 1	1.136	1.782	Up
157777	MCMDC2	minichromosome maintenance domain containing 2	0.815	2.402	Up
641638	SNHG6	small nucleolar RNA host gene 6	0.952	3.032	Up
5569	PKIA	cAMP-dependent protein kinase inhibitor alpha	0.527	1.566	Up
619279	ZNF704	zinc finger protein 704	2.723	4.317	Up
2167	FABP4	fatty acid binding protein 4	3.524	5.396	Up
245972	ATP6V0D2	ATPase H+ transporting V0 subunit d2	3.151	2.352	Up
1.05E+08	WWP1-AS1	WWP1 antisense RNA 1	2.096	3.22	Up
11059	WWP1	WW domain containing E3 ubiquitin protein ligase 1	0.515	4.057	Up
51115	RMDN1	regulator of microtubule dynamics 1	0.338	1.563	Up
54704	PDP1	pyruvate dehydrogenase phosphatase catalytic subunit 1	0.614	2.698	Up
9791	PTDSS1	phosphatidylserine synthase 1	0.573	2.122	Up
6383	SDC2	syndecan 2	1.902	3.009	Up
10404	CPQ	carboxypeptidase Q	0.676	2.073	Up
26986	PABPC1	poly(A) binding protein cytoplasmic 1	1.255	6.944	Up
1.02E+08	MIR7705	microRNA 7705	1.255	4.032	Up
55074	OXR1	oxidation resistance 1	1.376	23.64	Up
7227	TRPS1	transcriptional repressor GATA binding 1	0.699	2.873	Up
64798	DEPTOR	DEP domain containing MTOR interacting protein	1.467	2.416	Up
114907	FBXO32	F-box protein 32	2.277	7.281	Up
9788	MTSS1	MTSS I-BAR domain containing 1	2.045	23.224	Up
1.05E+08	LOC105375748		2.937	2.328	Up
1.08E+08	LOC107986974		2.313	2.076	Up
1E+08	LINC00861	long intergenic non-protein coding RNA 861	1.705	6.524	Up
5462	POU5F1B	POU class 5 homeobox 1B	2.177	1.591	Up
359809	PEG13	paternally expressed 13	2.111	9.09	Up
51337	THEM6	thioesterase superfamily member 6	0.971	6.427	Up
2738	GLI4	GLI family zinc finger 4	1.09	3.66	Up
1.01E+08	MINCR	MYC-induced long non-coding RNA	1.086	2.402	Up
79943	ZNF696	zinc finger protein 696	0.916	2.9	Up
114822	RHPN1	rhophilin Rho GTPase binding protein 1	0.837	1.48	Up
1E+08	LOC100310756	uncharacterized LOC100310756	1.252	5.919	Up
9831	ZNF623	zinc finger protein 623	0.592	2.114	Up

286075	ZNF707	zinc finger protein 707	0.412	1.641	Up
83481	EPPK1	epiplakin 1	2.106	4.463	Up
50626	ZFTRAF1	zinc finger TRAF-type containing 1	0.436	1.7	Up
90987	ZNF251	zinc finger protein 251	0.872	2.986	Up
340385	ZNF517	zinc finger protein 517	0.97	3.808	Up
1E+08	LOC100130027	uncharacterized LOC100130027	1.072	2.859	Up
58500	ZNF250	zinc finger protein 250	0.667	2.765	Up
286101	ZNF252P	zinc finger protein 252, pseudogene	0.746	4.247	Up
81704	DOCK8	dedicator of cytokinesis 8	0.7	5.361	Up
1.12E+08	DOCK8-AS2	DOCK8 antisense RNA 2	0.738	3.427	Up
6595	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	0.885	3.373	Up
169792	GLIS3	GLIS family zinc finger 3	1.902	1.884	Up
6505	SLC1A1	solute carrier family 1 member 1	2.957	5.955	Up
55064	SPATA6L	spermatogenesis associated 6 like	1.297	2.811	Up
403313	PLPP6	phospholipid phosphatase 6	1.29	7.454	Up
55664	CDC37L1	cell division cycle 37 like 1, HSP90 cochaperone	0.547	2.931	Up
6013	RLN1	relaxin 1	1.597	1.441	Up
57589	RIC1	RIC1 homolog, RAB6A GEF complex partner 1	0.48	2.491	Up
79956	ERMP1	endoplasmic reticulum metallopeptidase 1	1.102	4.298	Up
115426	UHRF2	ubiquitin like with PHD and ring finger domains 2	0.621	3.193	Up
23081	KDM4C	lysine demethylase 4C	0.508	4.682	Up
158326	FREM1	FRAS1 related extracellular matrix 1	5.178	2.86	Up
6619	SNAPC3	small nuclear RNA activating complex polypeptide 3	0.47	2.498	Up
11168	PSIP1	PC4 and SRSF1 interacting protein 1	0.751	3.622	Up
340485	ACER2	alkaline ceramidase 2	0.99	4.132	Up
4300	MLLT3	MLLT3 super elongation complex subunit	1.216	7.389	Up
203228	C9orf72	C9orf72-SMCR8 complex subunit	0.547	1.458	Up
10210	TOPORS	TOP1 binding arginine/serine rich protein, E3 ubiquitin ligase	0.461	3.666	Up
1E+08	SMIM27	small integral membrane protein 27	0.873	2.148	Up
4799	NFX1	nuclear transcription factor, X-box binding 1	0.47	2.835	Up
360	AQP3	aquaporin 3 (Gill blood group)	1.923	9.157	Up
11191	PTENP1	phosphatase and tensin homolog pseudogene 1	0.496	1.416	Up
54926	UBE2R2	ubiquitin conjugating enzyme E2 R2	0.65	4.759	Up
84688	C9orf24	chromosome 9 open reading frame 24	1.769	1.332	Up
3590	IL11RA	interleukin 11 receptor subunit alpha	1.245	2.691	Up
80256	ATOSB	atos homolog B	0.724	2.69	Up
7169	TPM2	tropomyosin 2	2.48	2.075	Up
51754	TMEM8B	transmembrane protein 8B	1.081	4.243	Up
8434	RECK	reversion inducing cysteine rich protein with kazal motifs	0.668	4.028	Up
152006	RNF38	ring finger protein 38	0.729	3.653	Up
84186	ZCCHC7	zinc finger CCHC-type containing 7	0.527	1.72	Up
64425	POLR1E	RNA polymerase I subunit E	0.53	1.76	Up
26267	FBXO10	F-box protein 10	0.951	1.603	Up
158228	FAM201A	family with sequence similarity 201 member A	1.781	1.314	Up
1.05E+08	LOC105376046		1.936	2.031	Up
1E+08	FRG1HP	FSHD region gene 1 family member H, pseudogene	0.803	6.694	Up
595135	PGM5P2	phosphoglucomutase 5 pseudogene 2	0.981	1.631	Up

286380	FOXD4L3	forkhead box D4 like 3	4.698	1.888	Up
301	ANXA1	annexin A1	0.803	1.9	Up
5125	PCSK5	proprotein convertase subtilisin/kexin type 5	1.746	7.651	Up
2776	GNAQ	G protein subunit alpha q	0.518	2.442	Up
7088	TLE1	TLE family member 1, transcriptional corepressor	1.128	1.614	Up
80318	GKAP1	G kinase anchoring protein 1	1.166	3.021	Up
23287	AGTPBP1	ATP/GTP binding carboxypeptidase 1	0.899	6.193	Up
51280	GOLM1	golgi membrane protein 1	0.5	1.54	Up
2619	GAS1	growth arrest specific 1	1.479	1.953	Up
10507	SEMA4D	semaphorin 4D	0.905	4.576	Up
6850	SYK	spleen associated tyrosine kinase	1.64	3.815	Up
89846	FGD3	FYVE, RhoGEF and PH domain containing 3	1.088	9.137	Up
1.02E+08	LOC101927954	uncharacterized LOC101927954	1.05	5.708	Up
203328	SUSD3	sushi domain containing 3	0.946	2.141	Up
1.08E+08	LOC107987097	uncharacterized LOC107987097	1.561	1.82	Up
5253	PHF2	PHD finger protein 2	0.889	2.903	Up
169841	ZNF169	zinc finger protein 169	0.455	1.794	Up
2203	FBP1	fructose-bisphosphatase 1	3.002	5.229	Up
5727	PTCH1	patched 1	1.247	2.728	Up
375748	ERCC6L2	ERCC excision repair 6 like 2	0.69	2.215	Up
22927	HABP4	hyaluronan binding protein 4	1.032	12.633	Up
8555	CDC14B	cell division cycle 14B	1.198	3.571	Up
22869	ZNF510	zinc finger protein 510	0.836	6.276	Up
158431	ZNF782	zinc finger protein 782	0.8	3.272	Up
55363	HEMGN	hemogen	1.765	2.418	Up
10541	ANP32B	acidic nuclear phosphoprotein 32 family member B	0.624	1.985	Up
55357	TBC1D2	TBC1 domain family member 2	0.898	2.288	Up
79695	GALNT12	polypeptide N-acetylgalactosaminyltransferase 12	1.162	3.554	Up
116443	GRIN3A	glutamate ionotropic receptor NMDA type subunit 3A	1.028	1.309	Up
23446	SLC44A1	solute carrier family 44 member 1	0.643	4.544	Up
23731	TMEM245	transmembrane protein 245	0.762	4.616	Up
22949	PTGR1	prostaglandin reductase 1	1.686	1.336	Up
158405	KIAA1958	KIAA1958	0.415	1.423	Up
401548	SNX30	sorting nexin family member 30	1.094	8.864	Up
81932	HDHD3	haloacid dehalogenase like hydrolase domain containing 3	0.383	1.631	Up
210	ALAD	aminolevulinate dehydratase	0.417	2.279	Up
5005	ORM2	orosomucoid 2	2.501	2.424	Up
80709	AKNA	AT-hook transcription factor	0.947	1.803	Up
25861	WHRN	whirlin	1.565	1.712	Up
944	TNFSF8	TNF superfamily member 8	0.874	1.392	Up
7099	TLR4	toll like receptor 4	2.421	4.304	Up
1955	MEGF9	multiple EGF like domains 9	0.58	2.446	Up
727	C5	complement C5	1.299	2.307	Up
2934	GSN	gelsolin	2.315	1.52	Up
57000	GSN-AS1	GSN antisense RNA 1	2.292	1.456	Up
5742	PTGS1	prostaglandin-endoperoxide synthase 1	1.035	2.073	Up
23637	RABGAP1	RAB GTPase activating protein 1	0.757	6.986	Up
286205	SCAI	suppressor of cancer cell invasion	0.85	1.422	Up
5090	PBX3	PBX homeobox 3	0.9	4.671	Up

2022	ENG	endoglin	0.624	2.561	Up
30815	ST6GALNAC6	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	0.562	2.333	Up
399665	EEIG1	estrogen-induced osteoclastogenesis regulator 1	1.073	1.879	Up
203245	NAIF1	nuclear apoptosis inducing factor 1	0.436	1.303	Up
1759	DNM1	dynamin 1	1.94	1.884	Up
6709	SPTAN1	spectrin alpha, non-erythrocytic 1	0.775	1.884	Up
1.01E+08	ZDHHC12-DT	ZDHHC12 divergent transcript	1.266	1.39	Up
10444	ZER1	zyg-11 related cell cycle regulator	0.678	3.555	Up
883	KYAT1	kynurenine aminotransferase 1	0.886	2.237	Up
56262	LRRC8A	leucine rich repeat containing 8 VRAC subunit A	0.552	2.331	Up
389792	IER5L	immediate early response 5 like	2.091	3.072	Up
1.05E+08	IER5L-AS1	IER5L antisense RNA 1	4.165	3.922	Up
10319	LAMC3	laminin subunit gamma 3	2.131	1.318	Up
286336	FAM78A	family with sequence similarity 78 member A	1.476	7.415	Up
84726	PRRC2B	proline rich coiled-coil 2B	1.148	3.456	Up
1.08E+08	LOC107987135		1.105	4.776	Up
83549	UCK1	uridine-cytidine kinase 1	0.437	1.558	Up
1621	DBH	dopamine beta-hydroxylase	1.465	2.083	Up
138948	DBH-AS1	DBH antisense RNA 1	1.92	2.808	Up
1757	SARDH	sarcosine dehydrogenase	0.707	1.309	Up
2219	FCN1	ficolin 1	6.84	5.48	Up
138311	DIPK1B	divergent protein kinase domain 1B	1.305	3.686	Up
84973	SNHG7	small nucleolar RNA host gene 7	1.727	9.993	Up
9022	CLIC3	chloride intracellular channel 3	1.723	1.772	Up
1E+08	MAN1B1-DT	MAN1B1 divergent transcript	1.416	1.863	Up
11253	MAN1B1	mannosidase alpha class 1B member 1	0.905	8.361	Up
375775	PNPLA7	patatin like phospholipase domain containing 7	1.209	2.634	Up
22982	DIP2C	disco interacting protein 2 homolog C	1.631	1.575	Up
22884	WDR37	WD repeat domain 37	0.739	3.542	Up
10276	NET1	neuroepithelial cell transforming 1	1.519	3.317	Up
79754	ASB13	ankyrin repeat and SOCS box containing 13	1.036	4.282	Up
5588	PRKCQ	protein kinase C theta	0.499	3.172	Up
1.02E+08	LINC02648	long intergenic non-protein coding RNA 2648	1.57	2.228	Up
441549	CDNF	cerebral dopamine neurotrophic factor	1.56	3.218	Up
9397	NMT2	N-myristoyltransferase 2	1.374	18.93	Up
1.08E+08	LOC107984210	uncharacterized LOC107984210	1.214	3.308	Up
1.01E+08	VIM-AS1	VIM antisense RNA 1	0.835	3.152	Up
7431	VIM	vimentin	0.731	1.889	Up
4360	MRC1	mannose receptor C-type 1	2.252	1.527	Up
84898	PLXDC2	plexin domain containing 2	2.861	6.678	Up
64215	DNAJC1	DnaJ heat shock protein family (Hsp40) member C1	0.732	1.537	Up
220213	OTUD1	OTU deubiquitinase 1	1.357	23.542	Up
57584	ARHGAP21	Rho GTPase activating protein 21	0.903	1.526	Up
79896	THNSL1	threonine synthase like 1	1.272	4.537	Up
54518	APBB1IP	amyloid beta precursor protein binding family B member 1 interacting protein	0.881	6.299	Up

143098	MPP7	MAGUK p55 scaffold protein 7	1.829	6.191	Up
1.05E+08	LOC105376467	replaced by ID 143098	2.056	3.081	Up
51322	WAC	WW domain containing adaptor with coiled-coil	0.306	1.521	Up
6935	ZEB1	zinc finger E-box binding homeobox 1	1.04	4.006	Up
94134	ARHGAP12	Rho GTPase activating protein 12	1.091	5.246	Up
80314	EPC1	enhancer of polycomb homolog 1	0.488	1.912	Up
3688	ITGB1	integrin subunit beta 1	0.531	1.805	Up
1.02E+08	IATPR	ITGB1 adjacent tumor promoting lncRNA	1.601	2.666	Up
57209	ZNF248	zinc finger protein 248	1.012	6.805	Up
219749	ZNF25	zinc finger protein 25	0.972	10.615	Up
7581	ZNF33A	zinc finger protein 33A	0.631	4.615	Up
7582	ZNF33B	zinc finger protein 33B	1.168	4.87	Up
1.05E+08	LOC105378268	uncharacterized LOC105378268	1.851	6.251	Up
220972	MARCHF8	membrane associated ring-CH-type finger 8	0.777	3.665	Up
1.05E+08	LOC105378286	uncharacterized LOC105378286	0.782	1.416	Up
1.01E+08	ANTXRLP1	ANTXR like pseudogene 1	2.901	5.956	Up
57705	WDFY4	WDFY family member 4	1.586	1.308	Up
2074	ERCC6	ERCC excision repair 6, chromatin remodeling factor	0.621	1.772	Up
26091	HERC4	HECT and RLD domain containing E3 ubiquitin protein ligase 4	0.38	2.071	Up
80312	TET1	tet methylcytosine dioxygenase 1	2.015	3.911	Up
80201	HKDC1	hexokinase domain containing 1	3.399	9.877	Up
55506	MACROH2A2	macroH2A.2 histone	0.931	1.996	Up
219743	TYSND1	trypsin like peroxisomal matrix peptidase 1	1.036	6.172	Up
55315	SLC29A3	solute carrier family 29 member 3	0.813	2.668	Up
64072	CDH23	cadherin related 23	3.118	7.206	Up
414152	C10orf105	chromosome 10 open reading frame 105	2.772	2.252	Up
64115	VSIR	V-set immunoregulatory receptor	1.474	5.762	Up
5660	PSAP	prosaposin	0.751	4.25	Up
9806	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2	1.195	7.908	Up
414245	DNAJC9-AS1	DNAJC9 and MRPS16 antisense RNA 1	1.653	3.6	Up
1.02E+08	PPP3CB-AS1	PPP3CB antisense RNA 1 (head to head)	0.578	2.199	Up
1.08E+08	LOC107984243	uncharacterized LOC107984243	2.142	2.904	Up
23053	ZSWIM8	zinc finger SWIM-type containing 8	0.639	1.409	Up
1.01E+08	ZSWIM8-AS1	ZSWIM8 antisense RNA 1	0.767	1.853	Up
818	CAMK2G	calcium/calmodulin dependent protein kinase II gamma	1.122	9.153	Up
729262	NUTM2B	NUT family member 2B	1.152	2.276	Up
283008	NUTM2E	NUT family member 2E	1.013	3.502	Up
81619	TSPAN14	tetraspanin 14	1.526	7.715	Up
92211	CDHR1	cadherin related family member 1	2.143	1.398	Up
728118	NUTM2A	NUT family member 2A	1.15	2.595	Up
439994	LINC00863	long intergenic non-protein coding RNA 863	0.866	1.39	Up
728130	NUTM2D	NUT family member 2D	1.278	2.359	Up
9060	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	1.26	1.562	Up

3988	LIPA	lipase A, lysosomal acid type	0.64	2.216	Up
3363	HTR7	5-hydroxytryptamine receptor 7	2.011	2.015	Up
80351	TNKS2	tankyrase 2	0.481	2.457	Up
10023	FRAT1	FRAT regulator of WNT signaling pathway 1	1.656	10.685	Up
23401	FRAT2	FRAT regulator of WNT signaling pathway 2	1.269	7.587	Up
64210	MMS19	MMS19 homolog, cytosolic iron-sulfur assembly component	0.439	3.046	Up
118812	MORN4	MORN repeat containing 4	0.928	1.321	Up
60370	AVPI1	arginine vasopressin induced 1	1.359	3.303	Up
118813	ZFYVE27	zinc finger FYVE-type containing 27	0.368	1.327	Up
51076	CUTC	cutC copper transporter	0.381	1.482	Up
23268	DNMBP	dynamin binding protein	1.267	4.694	Up
7479	WNT8B	Wnt family member 8B	3.161	2.601	Up
55719	SLF2	SMC5-SMC6 complex localization factor 2	0.877	4.521	Up
84445	LZTS2	leucine zipper tumor suppressor 2	1.128	6.416	Up
79955	PDZD7	PDZ domain containing 7	1.323	2.388	Up
81855	SFXN3	sideroflexin 3	1.312	8.129	Up
8945	BTRC	beta-transducin repeat containing E3 ubiquitin protein ligase	0.331	1.919	Up
27343	POLL	DNA polymerase lambda	0.644	3.564	Up
8861	LDB1	LIM domain binding 1	0.731	4.036	Up
1.01E+08	C10orf95-AS1	C10orf95 antisense RNA 1	0.543	1.451	Up
51684	SUFU	SUFU negative regulator of hedgehog signaling	0.718	3.512	Up
81603	TRIM8	tripartite motif containing 8	1.105	5.876	Up
1.05E+08	LOC105378460	uncharacterized LOC105378460	1.112	3.532	Up
54838	WBP1L	WW domain binding protein 1 like	0.563	1.707	Up
54805	CNNM2	cyclin and CBS domain divalent metal cation transport mediator 2	0.403	2.206	Up
51063	CALHM2	calcium homeostasis modulator family member 2	1.561	4.665	Up
79991	STN1	STN1 subunit of CST complex	0.409	1.373	Up
85450	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein	0.425	2.09	Up
1.01E+08	ADD3-AS1	ADD3 antisense RNA 1	1.395	4.796	Up
120	ADD3	adducin 3	1.558	16.009	Up
4601	MXI1	MAX interactor 1, dimerization protein	0.939	9.307	Up
282997	PDCD4-AS1	PDCD4 antisense RNA 1	1.445	4.969	Up
27250	PDCD4	programmed cell death 4	0.915	3.024	Up
1.01E+08	MIR4680	microRNA 4680	0.928	1.762	Up
92482	BBIP1	BBSome interacting protein 1	0.623	1.761	Up
84632	AFAP1L2	actin filament associated protein 1 like 2	1.946	4.917	Up
3983	ABLIM1	actin binding LIM protein 1	1.14	2.772	Up
22841	RAB11FIP2	RAB11 family interacting protein 2	0.538	3.691	Up
9531	BAG3	BAG cochaperone 3	0.865	4.969	Up
59338	PLEKHA1	pleckstrin homology domain containing A1	0.545	2.03	Up
5654	HTRA1	HtrA serine peptidase 1	5.153	2.985	Up
196792	FAM24B	family with sequence similarity 24 member B	0.907	1.565	Up
64376	IKZF5	IKAROS family zinc finger 5	0.397	2.402	Up
64077	LHPP	phospholysine phosphohistidine inorganic pyrophosphate phosphatase	1.077	6.251	Up

54764	ZRANB1	zinc finger RANBP2-type containing 1	0.481	1.823	Up
1488	CTBP2	C-terminal binding protein 2	0.436	1.892	Up
51272	BET1L	Bet1 golgi vesicular membrane trafficking protein like	0.649	7.317	Up
23410	SIRT3	sirtuin 3	0.714	5.893	Up
171389	NLRP6	NLR family pyrin domain containing 6	1.433	1.418	Up
1.05E+08	LOC105376505	uncharacterized LOC105376505	2.882	2.9	Up
59307	SIGIRR	single Ig and TIR domain containing	1.638	19.971	Up
143666	LOC143666	uncharacterized LOC143666	1.951	2.682	Up
10522	DEAF1	DEAF1 transcription factor	1.174	1.907	Up
283232	TMEM80	transmembrane protein 80	1.566	8.201	Up
57104	PNPLA2	patatin like phospholipase domain containing 2	0.685	2.56	Up
81532	MOB2	MOB kinase activator 2	0.556	1.928	Up
338651	KRTAP5-AS1	KRTAP5-1/KRTAP5-2 antisense RNA 1	1.727	2.98	Up
440021	KRTAP5-2	keratin associated protein 5-2	1.99	1.44	Up
402778	IFITM10	interferon induced transmembrane protein 10	1.75	4.141	Up
1509	CTSD	cathepsin D	1.409	11.555	Up
1.02E+08	MIR7847	microRNA 7847	0.503	1.606	Up
7140	TNNT3	troponin T3, fast skeletal type	2.347	2.746	Up
29125	C11orf21	chromosome 11 open reading frame 21	2.366	2.835	Up
10077	TSPAN32	tetraspanin 32	1.738	2.004	Up
3784	KCNQ1	potassium voltage-gated channel subfamily Q member 1	0.823	4.767	Up
1028	CDKN1C	cyclin dependent kinase inhibitor 1C	1.111	2.234	Up
5002	SLC22A18	solute carrier family 22 member 18	1.609	6.087	Up
6786	STIM1	stromal interaction molecule 1	0.436	3.023	Up
55128	TRIM68	tripartite motif containing 68	0.662	4.044	Up
322	APBB1	amyloid beta precursor protein binding family B member 1	0.581	1.529	Up
23378	RRP8	ribosomal RNA processing 8	0.347	1.46	Up
1200	TPP1	tripeptidyl peptidase 1	0.993	7.286	Up
56672	AKIP1	A-kinase interacting protein 1	1.044	3.956	Up
493900	TMEM9B-AS1	TMEM9B antisense RNA 1	1.918	3.459	Up
729013	ZBED5-AS1	ZBED5 antisense RNA 1	0.791	1.635	Up
1.05E+08	LOC105376548	uncharacterized LOC105376548	2.48	7.344	Up
27122	DKK3	dickkopf WNT signaling pathway inhibitor 3	2.524	2.504	Up
406	BMAL1	basic helix-loop-helix ARNT like 1	0.452	1.646	Up
10418	SPON1	spondin 1	3.71	91.073	Up
5140	PDE3B	phosphodiesterase 3B	1.121	7.775	Up
144100	PLEKHA7	pleckstrin homology domain containing A7	1.171	1.343	Up
4925	NUCB2	nucleobindin 2	0.904	1.957	Up
144110	TMEM86A	transmembrane protein 86A	1.356	2.899	Up
89797	NAV2	neuron navigator 2	2.165	1.37	Up
497258	BDNF-AS	BDNF antisense RNA	1.744	1.707	Up
79832	QSER1	glutamine and serine rich 1	0.478	1.797	Up
338739	CSTF3-DT	CSTF3 divergent transcript	2.176	1.324	Up
26273	FBXO3	F-box protein 3	0.519	1.49	Up
847	CAT	catalase	0.468	2.802	Up
90139	TSPAN18	tetraspanin 18	1.914	20.111	Up
1408	CRY2	cryptochrome circadian regulator 2	0.473	1.348	Up
8525	DGKZ	diacylglycerol kinase zeta	0.719	3.446	Up
6688	SPI1	Spi-1 proto-oncogene	2.23	3.54	Up

91252	SLC39A13	solute carrier family 39 member 13	0.729	5.777	Up
5795	PTPRJ	protein tyrosine phosphatase receptor type J	0.766	2.301	Up
219539	YPEL4	yippee like 4	2.433	7.057	Up
1.02E+08	FAM111A-DT	FAM111A divergent transcript	1.496	2.922	Up
63901	FAM111A	FAM111 trypsin like peptidase A	0.653	1.775	Up
23220	DTX4	deltex E3 ubiquitin ligase 4	2.444	4.665	Up
219972	MPEG1	macrophage expressed 1	2.026	1.334	Up
51338	MS4A4A	membrane spanning 4-domains A4A	3.151	1.422	Up
1.08E+08	PRPF19-DT	PRPF19 divergent transcript	2.291	1.409	Up
923	CD6	CD6 molecule	0.498	3.241	Up
921	CD5	CD5 molecule	0.625	1.787	Up
7439	BEST1	bestrophin 1	0.852	1.82	Up
1.08E+08	LOC107984334	uncharacterized LOC107984334	1.304	1.546	Up
2495	FTH1	ferritin heavy chain 1	0.908	1.738	Up
79026	AHNAK	AHNAK nucleoprotein	0.88	1.37	Up
64852	TUT1	terminal uridylyl transferase 1, U6 snRNA-specific	0.403	3.217	Up
256364	EML3	EMAP like 3	0.541	2.435	Up
6094	ROM1	retinal outer segment membrane protein 1	1.776	4.17	Up
51035	UBXN1	UBX domain protein 1	0.789	2.227	Up
26580	BSCL2	BSCL2 lipid droplet biogenesis associated, seipin	0.996	5.088	Up
2785	GNG3	G protein subunit gamma 3	1.207	2.42	Up
23642	SNHG1	small nucleolar RNA host gene 1	1.518	5.637	Up
3338	DNAJC4	DnaJ heat shock protein family (Hsp40) member C4	1.127	8.543	Up
7423	VEGFB	vascular endothelial growth factor B	0.669	2.75	Up
10235	RASGRP2	RAS guanyl releasing protein 2	2.25	32.157	Up
5837	PYGM	glycogen phosphorylase, muscle associated	1.595	1.312	Up
5871	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2	0.468	2.32	Up
10938	EHD1	EH domain containing 1	0.453	1.419	Up
283130	SLC25A45	solute carrier family 25 member 45	0.638	1.42	Up
4054	LTBP3	latent transforming growth factor beta binding protein 3	0.637	3.584	Up
6494	SIPA1	signal-induced proliferation-associated 1	0.872	1.535	Up
83638	C11orf68	chromosome 11 open reading frame 68	0.854	6.517	Up
55690	PACS1	phosphofurin acidic cluster sorting protein 1	1.351	7.547	Up
9610	RIN1	Ras and Rab interactor 1	0.859	1.757	Up
11041	B4GAT1	beta-1,4-glucuronyltransferase 1	1.302	8.028	Up
582	BBS1	Bardet-Biedl syndrome 1	0.555	1.386	Up
254359	ZDHHC24	zinc finger DHHC-type containing 24	0.578	1.706	Up
8722	CTSF	cathepsin F	2.021	13.338	Up
57804	POLD4	DNA polymerase delta 4, accessory subunit	0.843	2.898	Up
374403	TBC1D10C	TBC1 domain family member 10C	0.753	2.71	Up
5790	PTPRCAP	protein tyrosine phosphatase receptor type C associated protein	0.685	1.479	Up
57010	CABP4	calcium binding protein 4	2.162	1.706	Up
221	ALDH3B1	aldehyde dehydrogenase 3 family member B1	3.189	3.778	Up
220064	LTO1	LTO1 maturation factor of ABCE1	0.882	2.442	Up
4926	NUMA1	nuclear mitotic apparatus protein 1	1.068	1.983	Up
1E+08	LOC100128494	uncharacterized LOC100128494	1.051	1.675	Up

116985	ARAP1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	0.691	2.589	Up
23201	FAM168A	family with sequence similarity 168 member A	0.689	2.497	Up
58473	PLEKHB1	pleckstrin homology domain containing B1	1.063	5.895	Up
283209	PGM2L1	phosphoglucomutase 2 like 1	1.294	1.927	Up
10008	KCNE3	potassium voltage-gated channel subfamily E regulatory subunit 3	2.905	2.409	Up
387787	LIPT2	lipoyl(octanoyl) transferase 2	0.896	3.912	Up
1E+08	LIPT2-AS1	LIPT2 antisense RNA 1	1.685	5.13	Up
11309	SLCO2B1	solute carrier organic anion transporter family member 2B1	2.918	5.354	Up
1.01E+08	TPBGL	trophoblast glycoprotein like	2.272	1.697	Up
408	ARRB1	arrestin beta 1	0.527	1.839	Up
81544	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5	1.308	4.093	Up
1.01E+08	GVQW3	GVQW motif containing 3	1.175	2.158	Up
726	CAPN5	calpain 5	0.784	1.342	Up
4647	MYO7A	myosin VIIA	2.526	1.654	Up
283219	KCTD21	potassium channel tetramerization domain containing 21	0.948	1.701	Up
54843	SYTL2	synaptotagmin like 2	1.466	2.876	Up
85459	CEP295	centrosomal protein 295	1.044	1.675	Up
79101	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D	1.034	3.984	Up
143689	PIWIL4	piwi like RNA-mediated gene silencing 4	2.038	2.694	Up
10929	SRSF8	serine and arginine rich splicing factor 8	0.39	2.105	Up
1E+08	LOC100129203	uncharacterized LOC100129203	1.288	3.867	Up
9702	CEP57	centrosomal protein 57	0.871	4.213	Up
84441	MAML2	mastermind like transcriptional coactivator 2	0.722	1.66	Up
329	BIRC2	baculoviral IAP repeat containing 2	0.629	1.38	Up
114908	TMEM123	transmembrane protein 123	0.997	3.712	Up
143879	KBTBD3	kelch repeat and BTB domain containing 3	0.795	1.738	Up
1.05E+08	LOC105369477	uncharacterized LOC105369477	1.079	3.34	Up
472	ATM	ATM serine/threonine kinase	1.593	10.627	Up
160140	C11orf65	chromosome 11 open reading frame 65	1.575	3.751	Up
23235	SIK2	salt inducible kinase 2	0.841	2.161	Up
7704	ZBTB16	zinc finger and BTB domain containing 16	1.28	2.589	Up
23387	SIK3	SIK family kinase 3	0.588	1.37	Up
51092	SIDT2	SID1 transmembrane family member 2	1.065	9.14	Up
1.01E+08	LOC100652768	uncharacterized LOC100652768	1.016	2.854	Up
23621	BACE1	beta-secretase 1	0.767	1.437	Up
916	CD3E	CD3 epsilon subunit of T-cell receptor complex	0.567	1.881	Up
917	CD3G	CD3 gamma subunit of T-cell receptor complex	0.987	3.107	Up
84866	TMEM25	transmembrane protein 25	0.691	2.569	Up
1.05E+08	LOC105369519	uncharacterized LOC105369519	3.097	1.853	Up
1656	DDX6	DEAD-box helicase 6	0.511	2.319	Up
643	CXCR5	C-X-C motif chemokine receptor 5	0.764	1.588	Up
283149	BCL9L	BCL9 like	1.417	2.86	Up

55823	VPS11	VPS11 core subunit of CORVET and HOPS complexes	0.662	1.864	Up
25988	HINFP	histone H4 transcription factor	0.687	2.947	Up
79102	RNF26	ring finger protein 26	0.44	1.532	Up
219899	TBCEL	tubulin folding cofactor E like	0.549	2.065	Up
1.05E+08	SORL1-AS1	SORL1 antisense RNA 1	0.972	1.327	Up
6653	SORL1	sortilin related receptor 1	2	12.29	Up
84959	UBASH3B	ubiquitin associated and SH3 domain containing B	1.975	6.988	Up
4013	VWA5A	von Willebrand factor A domain containing 5A	1.328	9.406	Up
54414	SIAE	sialic acid acetylesterase	0.464	1.32	Up
219855	SLC37A2	solute carrier family 37 member 2	4.022	11.358	Up
2113	ETS1	ETS proto-oncogene 1, transcription factor	0.477	1.562	Up
2313	FLI1	Fli-1 proto-oncogene, ETS transcription factor	1.138	5.963	Up
219833	KCNJ5-AS1	KCNJ5 antisense RNA 1	2.827	2.012	Up
120224	TMEM45B	transmembrane protein 45B	2.152	4.514	Up
4798	NFRKB	nuclear factor related to kappaB binding protein	0.728	1.85	Up
56980	PRDM10	PR/SET domain 10	0.528	2.647	Up
29068	ZBTB44	zinc finger and BTB domain containing 44	0.677	2.255	Up
283174	MIR4697HG	replaced by ID 22997	1.545	2.552	Up
22997	IGSF9B	immunoglobulin superfamily member 9B	1.413	1.475	Up
112936	VPS26B	VPS26 retromer complex component B	0.834	19.896	Up
5893	RAD52	RAD52 homolog, DNA repair protein	0.685	2.471	Up
144699	FBXL14	F-box and leucine rich repeat protein 14	0.934	5.783	Up
196513	DCP1B	decapping mRNA 1B	0.447	1.996	Up
775	CACNA1C	calcium voltage-gated channel subunit alpha1 C	1.193	1.326	Up
1.01E+08	CACNA1C-AS2	CACNA1C antisense RNA 2	1.472	1.568	Up
1.05E+08	PARP11-AS1	PARP11 antisense RNA 1	2.15	4.539	Up
928	CD9	CD9 molecule	2.685	35.486	Up
678655	CD27-AS1	CD27 antisense RNA 1	1.456	4.257	Up
939	CD27	CD27 molecule	1.51	4.13	Up
9918	NCAPD2	non-SMC condensin I complex subunit D2	0.5	2.154	Up
1.12E+08	GAPDH-DT	GAPDH divergent transcript	0.572	2.652	Up
51147	ING4	inhibitor of growth family member 4	0.823	2.65	Up
920	CD4	CD4 molecule	0.609	2.863	Up
10233	LRRC23	leucine rich repeat containing 23	1.035	1.319	Up
9746	CLSTN3	calsyntenin 3	1.16	6.49	Up
55810	FOXJ2	forkhead box J2	0.509	1.686	Up
144571	A2M-AS1	A2M antisense RNA 1	3.365	2.319	Up
2	A2M	alpha-2-macroglobulin	3.595	8.631	Up
5858	PZP	PZP alpha-2-macroglobulin like	2.072	1.563	Up
3820	KLRB1	killer cell lectin like receptor B1	1.302	3.707	Up
1.08E+08	LOC107987174		1.238	3.014	Up
374443	LOC374443	C-type lectin domain family 2 member D pseudogene	0.756	5.988	Up
1.05E+08	LINC02390	long intergenic non-protein coding RNA 2390	1.6	3.092	Up
51348	KLRF1	killer cell lectin like receptor F1	1.466	1.357	Up
9976	CLEC2B	C-type lectin domain family 2 member B	0.879	2.669	Up
4973	OLR1	oxidized low density lipoprotein receptor 1	2.568	2.239	Up

118426	BORCS5	BLOC-1 related complex subunit 5	0.419	1.49	Up
1.08E+08	LOC107984485		1.233	4.428	Up
80824	DUSP16	dual specificity phosphatase 16	0.968	2.561	Up
2842	GPR19	G protein-coupled receptor 19	0.828	4.621	Up
1027	CDKN1B	cyclin dependent kinase inhibitor 1B	0.773	3.706	Up
1.05E+08	LOC105369663	uncharacterized LOC105369663	0.745	2.668	Up
50865	HEBP1	heme binding protein 1	0.714	2.948	Up
79887	PLBD1	phospholipase B domain containing 1	1.741	1.455	Up
1.05E+08	LOC105369669	uncharacterized LOC105369669	1.519	1.887	Up
121506	ERP27	endoplasmic reticulum protein 27	1.274	3.903	Up
397	ARHGDIB	Rho GDP dissociation inhibitor beta	0.719	1.612	Up
5800	PTPRO	protein tyrosine phosphatase receptor type O	1.886	6.265	Up
4257	MGST1	microsomal glutathione S-transferase 1	1.391	1.688	Up
6489	ST8SIA1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1	0.662	1.993	Up
9847	C2CD5	C2 calcium dependent domain containing 5	0.573	2.152	Up
645177	LOC645177	replaced by ID 4033	2.208	1.763	Up
4033	IRAG2	inositol 1,4,5-triphosphate receptor associated 2	1.532	3.886	Up
144363	ETFRF1	electron transfer flavoprotein regulatory factor 1	0.671	1.542	Up
65981	CAPRIN2	caprin family member 2	0.915	1.734	Up
114134	SLC2A13	solute carrier family 2 member 13	0.731	3.355	Up
120892	LRRK2	leucine rich repeat kinase 2	3.485	1.575	Up
51135	IRAK4	interleukin 1 receptor associated kinase 4	0.618	3.237	Up
51054	PLEKHA8P1	pleckstrin homology domain containing A8 pseudogene 1	0.923	2.655	Up
196527	ANO6	anoctamin 6	0.533	2.918	Up
140461	ASB8	ankyrin repeat and SOCS box containing 8	0.41	2.096	Up
85478	CCDC65	coiled-coil domain containing 65	1.88	7.004	Up
7471	WNT1	Wnt family member 1	1.019	1.353	Up
55716	LMBR1L	limb development membrane protein 1 like	0.446	2.446	Up
57609	DIP2B	disco interacting protein 2 homolog B	0.316	1.475	Up
25840	METTL7A	methyltransferase like 7A	1.032	1.793	Up
25875	LETMD1	LETM1 domain containing 1	1.149	7.341	Up
5463	POU6F1	POU class 6 homeobox 1	0.914	3.364	Up
57228	SMAGP	small cell adhesion glycoprotein	1.157	4.032	Up
51411	BIN2	bridging integrator 2	0.798	1.68	Up
1990	CELA1	chymotrypsin like elastase 1	3.053	3.542	Up
140807	KRT72	keratin 72	3.955	9.345	Up
319101	KRT73	keratin 73	3.925	18.281	Up
1E+08	KRT73-AS1	KRT73 antisense RNA 1	4.555	22.035	Up
1.05E+08	LOC105369772	replaced by ID 319101	3.262	9.46	Up
3849	KRT2	keratin 2	4.838	7.511	Up
1975	EIF4B	eukaryotic translation initiation factor 4B	0.602	2.446	Up
5094	PCBP2	poly(rC) binding protein 2	0.498	1.513	Up
1.02E+08	PCBP2-OT1	PCBP2 overlapping transcript 1	0.635	2.232	Up
57658	CALCOCO1	calcium binding and coiled-coil domain 1	1.374	14.971	Up
4778	NFE2	nuclear factor, erythroid 2	1.072	1.315	Up

1.03E+08	GPR84-AS1	GPR84, ZNF385A, ITGA5 and GTSF1 antisense RNA 1	1.392	2.396	Up
25946	ZNF385A	zinc finger protein 385A	1.714	4.356	Up
3678	ITGA5	integrin subunit alpha 5	1.454	3.58	Up
1.08E+08	LOC107984515	uncharacterized LOC107984515	1.587	2.564	Up
440104	TMEM198B	transmembrane protein 198B (pseudogene)	0.78	2.216	Up
4327	MMP19	matrix metallopeptidase 19	1.805	3.23	Up
1606	DGKA	diacylglycerol kinase alpha	0.832	5.244	Up
5869	RAB5B	RAB5B, member RAS oncogene family	0.509	3.073	Up
6821	SUOX	sulfite oxidase	0.556	3.085	Up
2065	ERBB3	erb-b2 receptor tyrosine kinase 3	2.058	1.671	Up
9924	PAN2	poly(A) specific ribonuclease subunit PAN2	0.983	5.18	Up
27165	GLS2	glutaminase 2	0.87	1.708	Up
8608	RDH16	retinol dehydrogenase 16	1.799	1.557	Up
4035	LRP1	LDL receptor related protein 1	2.174	8.605	Up
22864	R3HDM2	R3H domain containing 2	1.177	2.229	Up
2735	GLI1	GLI family zinc finger 1	0.906	2.513	Up
64333	ARHGAP9	Rho GTPase activating protein 9	1.07	6.508	Up
116986	AGAP2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	0.683	3.424	Up
1E+08	AGAP2-AS1	AGAP2 antisense RNA 1	0.749	3.504	Up
92979	MARCHF9	membrane associated ring-CH-type finger 9	0.711	4.642	Up
10106	CTDSP2	CTD small phosphatase 2	0.927	2.271	Up
338811	TAFA2	TAFA chemokine like family member 2	2.529	5.238	Up
57460	PPM1H	protein phosphatase, Mg2+/Mn2+ dependent 1H	2.241	2.574	Up
1.13E+08	MIR10527	microRNA 10527	1.06	2.626	Up
144577	KICS2	KICSTOR subunit 2	0.523	1.858	Up
283349	RASSF3	Ras association domain family member 3	1.106	5.968	Up
1.04E+08	LLPH-DT	LLPH divergent transcript	1.549	1.549	Up
8445	DYRK2	dual specificity tyrosine phosphorylation regulated kinase 2	1.582	17.317	Up
1.05E+08	LOC105369816	uncharacterized LOC105369816	1.695	3.685	Up
56890	MDM1	Mdm1 nuclear protein	0.612	2.978	Up
55508	SLC35E3	solute carrier family 35 member E3	0.725	3.442	Up
4069	LYZ	lysozyme	4.163	3.878	Up
1.02E+08	PRANCR	progenitor renewal associated non-coding RNA	0.942	1.753	Up
27345	KCNMB4	potassium calcium-activated channel subfamily M regulatory beta subunit 4	1.487	2.803	Up
64786	TBC1D15	TBC1 domain family member 15	0.967	7.763	Up
79738	BBS10	Bardet-Biedl syndrome 10	0.505	2.047	Up
114882	OSBPL8	oxysterol binding protein like 8	0.86	3.112	Up
490	ATP2B1	ATPase plasma membrane Ca2+ transporting 1	0.654	2.685	Up
694	BTG1	BTG anti-proliferation factor 1	0.679	1.414	Up
1.02E+08	BTG1-DT	BTG1 divergent transcript	1.522	2.925	Up
8411	EEA1	early endosome antigen 1	0.862	2.765	Up
57458	TMCC3	transmembrane and coiled-coil domain family 3	1.745	1.626	Up
55785	FGD6	FYVE, RhoGEF and PH domain containing 6	1.237	2.434	Up

59277	NTN4	netrin 4	2.389	3.642	Up
79158	GNPTAB	N-acetylglucosamine-1-phosphate transferase subunits alpha and beta	0.811	3.658	Up
374470	C12orf42	chromosome 12 open reading frame 42	2.187	5.337	Up
493861	EID3	EP300 interacting inhibitor of differentiation 3	0.672	1.534	Up
55198	APPL2	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2	0.845	3.327	Up
255394	TCP11L2	t-complex 11 like 2	2.071	10.912	Up
121551	ABTB3	ankyrin repeat and BTB domain containing 3	2.248	7.646	Up
1240	CMKLR1	chemerin chemokine-like receptor 1	3.648	2.889	Up
338773	TMEM119	transmembrane protein 119	2.323	3.004	Up
6404	SELPLG	selectin P ligand	1.622	26.439	Up
84749	USP30	ubiquitin specific peptidase 30	0.741	3.479	Up
32	ACACB	acetyl-CoA carboxylase beta	2.264	5.529	Up
79600	TCTN1	tectonic family member 1	1.332	1.807	Up
84329	HVCN1	hydrogen voltage gated channel 1	2.279	3.202	Up
144717	PHETA1	PH domain containing endocytic trafficking adaptor 1	0.874	1.855	Up
51275	MAPKAPK5-AS1	MAPKAPK5 antisense RNA 1	0.99	6.444	Up
89894	TMEM116	transmembrane protein 116	1.119	5.32	Up
10961	ERP29	endoplasmic reticulum protein 29	0.785	2.215	Up
53373	TPCN1	two pore segment channel 1	0.89	3.28	Up
80024	SLC8B1	solute carrier family 8 member B1	1.531	12.614	Up
10993	SDS	serine dehydratase	4.559	5.302	Up
4842	NOS1	nitric oxide synthase 1	5.575	2.603	Up
51347	TAOK3	TAO kinase 3	0.566	2.713	Up
1.01E+08	PXN-AS1	PXN antisense RNA 1	1.293	8.219	Up
5829	PXN	paxillin	1.313	10.904	Up
84747	UNC119B	unc-119 lipid binding chaperone B	0.723	6.368	Up
283385	MORN3	MORN repeat containing 3	2.676	4.608	Up
338799	LINC01089	long intergenic non-protein coding RNA 1089	1.505	2.162	Up
23067	SETD1B	SET domain containing 1B, histone lysine methyltransferase	1.063	3.76	Up
144406	CFAP251	cilia and flagella associated protein 251	1.781	1.419	Up
22877	MLXIP	MLX interacting protein	0.683	1.589	Up
9026	HIP1R	huntingtin interacting protein 1 related	0.538	1.321	Up
79676	OGFOD2	2-oxoglutarate and iron dependent oxygenase domain containing 2	0.553	1.9	Up
57605	PITPNM2	phosphatidylinositol transfer protein membrane associated 2	1.057	2.762	Up
79867	TCTN2	tectonic family member 2	0.93	1.762	Up
8408	ULK1	unc-51 like autophagy activating kinase 1	0.595	1.742	Up
1.01E+08	LINC02361	long intergenic non-protein coding RNA 2361	1.735	9.195	Up
1E+08	ZNF605	zinc finger protein 605	0.654	1.548	Up
7574	ZNF26	zinc finger protein 26	0.642	5.665	Up
7637	ZNF84	zinc finger protein 84	0.555	3.415	Up
7556	ZNF10	zinc finger protein 10	0.766	3.092	Up
143	PARP4	poly(ADP-ribose) polymerase family member 4	0.669	4.066	Up
5042	PABPC3	poly(A) binding protein cytoplasmic 3	1.077	3.623	Up
219402	MTIF3	mitochondrial translational initiation factor 3	0.61	3.698	Up

283537	SLC46A3	solute carrier family 46 member 3	1.041	4.053	Up
1.03E+08	LOC102723345	uncharacterized LOC102723345	2.898	3.059	Up
440131	LINC00544	long intergenic non-protein coding RNA 544	4.659	2.004	Up
1E+08	LINC00426	long intergenic non-protein coding RNA 426	1.964	7.154	Up
10129	FRY	FRY microtubule binding protein	1.336	10.332	Up
55578	SUPT20H	SPT20 homolog, SAGA complex component	0.344	1.478	Up
387921	NHLRC3	NHL repeat containing 3	0.69	2.228	Up
57511	COG6	component of oligomeric golgi complex 6	0.432	1.453	Up
2308	FOXO1	forkhead box O1	0.931	2.461	Up
1.01E+08	TPTE2P5	TPTE2 pseudogene 5	0.701	1.474	Up
89890	KBTBD6	kelch repeat and BTB domain containing 6	0.72	2.369	Up
84078	KBTBD7	kelch repeat and BTB domain containing 7	0.591	1.564	Up
79612	NAA16	N-alpha-acetyltransferase 16, NatA auxiliary subunit	0.835	2.243	Up
28984	RGCC	regulator of cell cycle	1.064	2.239	Up
8848	TSC22D1	TSC22 domain family member 1	1.278	13.63	Up
641467	TSC22D1-AS1	TSC22D1 antisense RNA 1	1.384	2.573	Up
1E+08	TPT1-AS1	TPT1 antisense RNA 1	0.555	1.716	Up
283514	SIAH3	siah E3 ubiquitin protein ligase family member 3	2.111	1.435	Up
9445	ITM2B	integral membrane protein 2B	0.834	1.961	Up
10161	LPAR6	lysophosphatidic acid receptor 6	1.186	4.282	Up
83852	SETDB2	SET domain bifurcated histone lysine methyltransferase 2	0.679	3.878	Up
1.01E+08	INTS6-AS1	INTS6 antisense RNA 1	1.763	2.379	Up
115825	WDFY2	WD repeat and FYVE domain containing 2	0.545	2.785	Up
1.01E+08	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5	1.155	2.057	Up
26586	CKAP2	cytoskeleton associated protein 2	0.673	3.475	Up
81550	TDRD3	tudor domain containing 3	0.627	2.276	Up
688	KLF5	KLF transcription factor 5	0.94	2.124	Up
11278	KLF12	KLF transcription factor 12	0.599	2.451	Up
1.01E+08	LINC00402	long intergenic non-protein coding RNA 402	2.637	8.208	Up
1.05E+08	LOC105370259	uncharacterized LOC105370259	3.274	10.237	Up
4008	LMO7	LIM domain 7	0.796	2.16	Up
115207	KCTD12	potassium channel tetramerization domain containing 12	1.255	9.569	Up
26224	FBXL3	F-box and leucine rich repeat protein 3	0.514	1.35	Up
10253	SPRY2	sprouty RTK signaling antagonist 2	1.317	1.734	Up
26050	SLITRK5	SLIT and NTRK like family member 5	3.332	2.861	Up
1638	DCT	dopachrome tautomerase	2.077	1.612	Up
1E+08	DNAJC3-DT	DNAJC3 divergent transcript	0.993	1.535	Up
1.01E+08	DOCK9-DT	DOCK9 divergent transcript	1.093	2.966	Up
1.01E+08	BIVM-ERCC5	BIVM-ERCC5 readthrough	0.932	5.883	Up
2073	ERCC5	ERCC excision repair 5, endonuclease	0.974	5.701	Up
8660	IRS2	insulin receptor substrate 2	1.426	8.182	Up
55647	RAB20	RAB20, member RAS oncogene family	1.122	2.971	Up
55739	NAXD	NAD(P)HX dehydratase	0.361	1.941	Up
3621	ING1	inhibitor of growth family member 1	0.933	10.073	Up

55608	ANKRD10	ankyrin repeat domain 10	0.591	1.487	Up
8874	ARHGEF7	Rho guanine nucleotide exchange factor 7	0.632	2.043	Up
1E+08	MCF2L-AS1	MCF2L antisense RNA 1	1.272	2.149	Up
1.01E+08	SWINGN	SWI/SNF complex interacting GAS6 enhancer non-coding RNA	3.333	5.189	Up
1.05E+08	LOC105377806		2.966	5.694	Up
1.01E+08	C13orf46	chromosome 13 open reading frame 46	3.279	6.311	Up
22821	RASA3	RAS p21 protein activator 3	2.412	25.505	Up
1.02E+08	CFAP97D2	CFAP97 domain containing 2	3.413	1.685	Up
57820	CCNB1IP1	cyclin B1 interacting protein 1	0.681	1.312	Up
6039	RNASE6	ribonuclease A family member k6	2.865	8.395	Up
6035	RNASE1	ribonuclease A family member 1, pancreatic	5.54	14.493	Up
57447	NDRG2	NDRG family member 2	0.912	2.973	Up
6297	SALL2	spalt like transcription factor 2	0.99	3.137	Up
9056	SLC7A7	solute carrier family 7 member 7	1.301	1.663	Up
26020	LRP10	LDL receptor related protein 10	0.363	3.037	Up
161253	REM2	RRAD and GEM like GTPase 2	1.972	1.834	Up
60686	C14orf93	chromosome 14 open reading frame 93	0.864	2.459	Up
122706	PSMB11	proteasome subunit beta 11	5.704	2.036	Up
1053	CEBPE	CCAAT enhancer binding protein epsilon	3.711	2.826	Up
90673	PPP1R3E	protein phosphatase 1 regulatory subunit 3E	1.316	3.872	Up
51310	SLC22A17	solute carrier family 22 member 17	1.522	4.901	Up
55449	DHRS4-AS1	DHRS4 antisense RNA 1	0.779	2.946	Up
51292	GMPR2	guanosine monophosphate reductase 2	0.593	2.167	Up
115817	DHRS1	dehydrogenase/reductase 1	0.623	1.877	Up
56413	LTB4R2	leukotriene B4 receptor 2	0.952	1.384	Up
1241	LTB4R	leukotriene B4 receptor	1.069	1.87	Up
55632	G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.312	1.611	Up
394	ARHGAP5	Rho GTPase activating protein 5	0.35	1.36	Up
84837	ARHGAP5-AS1	ARHGAP5 antisense RNA 1 (head to head)	2.403	1.567	Up
1.01E+08	SRP54-AS1	SRP54 antisense RNA 1	0.929	1.923	Up
280655	IGBP1P1	immunoglobulin (CD79A) binding protein 1 pseudogene 1	1.306	2.194	Up
122525	C14orf28	chromosome 14 open reading frame 28	0.623	1.605	Up
23116	TOGARAM1	TOG array regulator of axonemal microtubules 1	0.646	1.308	Up
122773	KLHDC1	kelch domain containing 1	1.139	2.291	Up
51062	ATL1	atlastin GTPase 1	1.174	1.955	Up
5836	PYGL	glycogen phosphorylase L	1.082	1.447	Up
114088	TRIM9	tripartite motif containing 9	1.355	1.881	Up
57544	TXNDC16	thioredoxin domain containing 16	0.43	1.438	Up
22863	ATG14	autophagy related 14	0.717	2.3	Up
57161	PELI2	pellino E3 ubiquitin protein ligase family member 2	1.209	5.124	Up
54916	TMEM260	transmembrane protein 260	0.967	4.638	Up
5926	ARID4A	AT-rich interaction domain 4A	0.928	1.819	Up
9786	KIAA0586	KIAA0586	0.969	6.282	Up
23002	DAAM1	dishevelled associated activator of morphogenesis 1	0.767	2.568	Up
5583	PRKCH	protein kinase C eta	1.034	5.356	Up
7597	ZBTB25	zinc finger and BTB domain containing 25	0.725	2.076	Up

26030	PLEKHG3	pleckstrin homology and RhoGEF domain containing G3	1.193	4.036	Up
6710	SPTB	spectrin beta, erythrocytic	1.497	2.002	Up
645431	FUT8-AS1	FUT8 antisense RNA 1	1.155	2.152	Up
87	ACTN1	actinin alpha 1	1.261	5.51	Up
8816	DCAF5	DDB1 and CUL4 associated factor 5	0.483	3.894	Up
23508	TTC9	tetratricopeptide repeat domain 9	1.036	2.346	Up
89932	PAPLN	papilin, proteoglycan like sulfated glycoprotein	2.72	1.637	Up
9240	PNMA1	PNMA family member 1	0.495	2.054	Up
1.01E+08	MIDEAS-AS1	MIDEAS antisense RNA 1	2.518	3.287	Up
80127	BBOF1	basal body orientation factor 1	1.1	5.538	Up
4329	ALDH6A1	aldehyde dehydrogenase 6 family member A1	1.267	9.236	Up
10577	NPC2	NPC intracellular cholesterol transporter 2	0.659	1.706	Up
283571	PROX2	prospero homeobox 2	1.6	5.045	Up
91754	NEK9	NIMA related kinase 9	0.447	3.275	Up
1.01E+08	VASH1-AS1	VASH1 antisense RNA 1	0.846	3.469	Up
23357	ANGEL1	angel homolog 1	0.514	1.856	Up
1.08E+08	LOC107984638	arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2	0.525	1.59	Up
145508	CEP128	centrosomal protein 128	0.899	1.882	Up
23768	FLRT2	fibronectin leucine rich transmembrane protein 2	3.067	2.69	Up
123036	TC2N	tandem C2 domains, nuclear	1.167	4.643	Up
10516	FBLN5	fibulin 5	1.662	2.135	Up
79890	RIN3	Ras and Rab interactor 3	1.043	3.21	Up
64112	MOAP1	modulator of apoptosis 1	0.512	1.926	Up
56967	C14orf132	chromosome 14 open reading frame 132	2.464	7.356	Up
64919	BCL11B	BCL11 transcription factor B	0.707	2.294	Up
51466	EVL	Enah/Vasp-like	0.674	3.638	Up
123099	DEGS2	delta 4-desaturase, sphingolipid 2	0.75	3.538	Up
123096	SLC25A29	solute carrier family 25 member 29	0.342	1.38	Up
1.08E+08	LOC107984698		1.726	2.407	Up
1.05E+08	LINC02320	long intergenic non-protein coding RNA 2320	1.827	2.461	Up
145200	LINC00239	long intergenic non-protein coding RNA 239	1.592	5.444	Up
5527	PPP2R5C	protein phosphatase 2 regulatory subunit B'gamma	0.893	7.146	Up
1.08E+08	LOC107984658	uncharacterized LOC107984658	1.142	7.563	Up
1.08E+08	LOC107984659		1.576	15.791	Up
81693	AMN	amnion associated transmembrane protein	1.156	3.245	Up
1E+08	ZBTB42	zinc finger and BTB domain containing 42	0.533	3.103	Up
122616	CLBA1	clathrin binding box of aftiphilin containing 1	1.124	1.31	Up
1397	CRIP2	cysteine rich protein 2	2.65	7.397	Up
1396	CRIP1	cysteine rich protein 1	1.021	3.118	Up
1.03E+08	LOC102724760	immunoglobulin heavy variable 1/OR15-1 pseudogene	2.244	4.247	Up
388077	IGHV1OR15-1	immunoglobulin heavy variable 1/OR15-1 (non-functional)	2.178	4.044	Up
339005	WHAMMP3	WHAMM pseudogene 3	1.633	2.446	Up
1.04E+08	SNHG14	small nucleolar RNA host gene 14	0.524	2.88	Up

1.01E+08	PWAR6	Prader Willi/Angelman region RNA 6	1.373	2.966	Up
3653	IPW	imprinted in Prader-Willi syndrome	1.236	2.54	Up
57194	ATP10A	ATPase phospholipid transporting 10A (putative)	0.859	3.489	Up
8924	HERC2	HECT and RLD domain containing E3 ubiquitin protein ligase 2	0.733	1.715	Up
653720	GOLGA8M	golgin A8 family member M	1.164	1.309	Up
440253	WHAMMP2	WHAMM pseudogene 2	1.558	2.913	Up
321	APBA2	amyloid beta precursor protein binding family A member 2	2.262	14.074	Up
1E+08	WHAMMP4	WHAMM pseudogene 4	1.302	3.65	Up
1.03E+08	ARHGAP11B-DT	ARHGAP11B divergent transcript	1.555	2.616	Up
1.05E+08	LOC105370939	uncharacterized LOC105370939	1.386	1.357	Up
1E+08	WHAMMP1	WHAMM pseudogene 1	1.186	1.419	Up
9990	SLC12A6	solute carrier family 12 member 6	0.579	1.544	Up
254531	LPCAT4	lysophosphatidylcholine acyltransferase 4	1.17	4.701	Up
7057	THBS1	thrombospondin 1	2.459	5.194	Up
1E+08	SRP14-DT	SRP14 divergent transcript	1.019	3.303	Up
84936	ZFYVE19	zinc finger FYVE-type containing 19	0.474	1.462	Up
8681	JMJD7-PLA2G4B	JMJD7-PLA2G4B readthrough	0.991	1.825	Up
1E+08	JMJD7	jumonji domain containing 7	0.687	2.992	Up
1E+08	PLA2G4B	phospholipase A2 group IVB	1.373	1.421	Up
23339	VPS39	VPS39 subunit of HOPS complex	0.552	2.359	Up
2595	GANC	glucosidase alpha, neutral C	0.493	1.854	Up
146059	CDAN1	codanin 1	0.865	3.558	Up
146057	TTBK2	tau tubulin kinase 2	0.671	1.928	Up
23582	CCNDBP1	cyclin D1 binding protein 1	0.404	1.401	Up
113201	GOLM2	golgi membrane protein 2	0.588	4.058	Up
645212	EIF3J-DT	EIF3J divergent transcript	0.938	2.704	Up
9728	SECISBP2L	SECIS binding protein 2 like	0.457	1.59	Up
196951	FAM227B	family with sequence similarity 227 member B	0.662	2.214	Up
79895	ATP8B4	ATPase phospholipid transporting 8B4 (putative)	2.231	5.692	Up
55056	GABPB1-IT1	GABPB1 intronic transcript	1.024	4.225	Up
1E+08	GABPB1-AS1	GABPB1 antisense RNA 1	0.622	2.358	Up
10681	GNB5	G protein subunit beta 5	0.871	8.065	Up
1E+08	CERNA1	competing endogenous lncRNA 1 for miR-4707-5p and miR-4767	1.754	1.979	Up
56204	ATOSA	atos homolog A	1.448	7.588	Up
1.01E+08	DNAAF4-CCPG1	DNAAF4-CCPG1 readthrough (NMD candidate)	0.704	1.702	Up
9236	CCPG1	cell cycle progression 1	0.7	1.747	Up
145781	GCOM1	GCOM1, MYZAP-POLR2M combined locus	0.599	2.041	Up
81488	POLR2M	RNA polymerase II subunit M	0.622	2.512	Up
102	ADAM10	ADAM metallopeptidase domain 10	0.786	3.319	Up
54629	MINDY2	MINDY lysine 48 deubiquitinase 2	0.579	1.833	Up
1.02E+08	RORA-AS1	RORA antisense RNA 1	0.839	2.129	Up
7168	TPM1	tropomyosin 1	0.674	1.466	Up
9960	USP3	ubiquitin specific peptidase 3	1.182	11.36	Up
1E+08	USP3-AS1	USP3 antisense RNA 1	0.928	4.436	Up

8925	HERC1	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1	0.951	3.029	Up
23604	DAPK2	death associated protein kinase 2	1.875	2.872	Up
1.12E+08	LOC112268147		0.743	2.364	Up
54956	PARP16	poly(ADP-ribose) polymerase family member 16	0.764	3.699	Up
9187	SLC24A1	solute carrier family 24 member 1	0.535	1.365	Up
145853	C15orf61	chromosome 15 open reading frame 61	0.645	2.124	Up
5607	MAP2K5	mitogen-activated protein kinase kinase 5	0.874	5.558	Up
8554	PIAS1	protein inhibitor of activated STAT 1	0.573	1.713	Up
91860	CALML4	calmodulin like 4	0.738	2.981	Up
1.05E+08	LINC02896	long intergenic non-protein coding RNA 2896	3.439	1.566	Up
1.08E+08	LOC107984781	uncharacterized LOC107984781	1.76	2.093	Up
56965	PARP6	poly(ADP-ribose) polymerase family member 6	0.913	2.854	Up
80072	HEXA-AS1	HEXA antisense RNA 1	0.938	1.326	Up
440288	UBL7-DT	UBL7 divergent transcript	0.681	1.463	Up
1198	CLK3	CDC like kinase 3	0.515	2.441	Up
4351	MPI	mannose phosphate isomerase	0.5	2.536	Up
57184	FAM219B	family with sequence similarity 219 member B	0.652	2.932	Up
23102	TBC1D2B	TBC1 domain family member 2B	0.716	2.023	Up
123688	HYKK	hydroxylysine kinase	1.512	2.745	Up
3603	IL16	interleukin 16	0.866	3.878	Up
80765	STARD5	StAR related lipid transfer domain containing 5	1.232	4.796	Up
390660	ADAMTS7P1	ADAMTS7 pseudogene 1	2.25	1.404	Up
123720	WHAMM	WASP homolog associated with actin, golgi membranes and microtubules	0.707	1.314	Up
123207	C15orf40	chromosome 15 open reading frame 40	0.32	1.452	Up
54993	ZSCAN2	zinc finger and SCAN domain containing 2	0.747	3.878	Up
54581	SCAND2P	SCAN domain containing 2 pseudogene	0.959	1.699	Up
55070	DET1	DET1 partner of COP1 E3 ubiquitin ligase	0.519	1.324	Up
4240	MFGE8	milk fat globule EGF and factor V/VIII domain containing	2.428	9.542	Up
348110	ARPIN	actin related protein 2/3 complex inhibitor	2.812	1.5	Up
10509	SEMA4B	semaphorin 4B	1.019	5.149	Up
64784	CRTC3	CREB regulated transcription coactivator 3	0.9	6.824	Up
1.02E+08	CRTC3-AS1	CRTC3 antisense RNA 1	0.737	1.34	Up
1.01E+08	CHASERR	CHD2 adjacent suppressive regulatory RNA	0.778	1.858	Up
440311	LOC440311	NOP53 ribosome biogenesis factor pseudogene	0.687	1.513	Up
3480	IGF1R	insulin like growth factor 1 receptor	0.905	6.903	Up
64927	TTC23	tetratricopeptide repeat domain 23	2.022	1.945	Up
170691	ADAMTS17	ADAM metallopeptidase with thrombospondin type 1 motif 17	1.507	1.659	Up
123283	TARS3	threonyl-tRNA synthetase 3	0.915	4.252	Up
1E+08	LOC100134368	uncharacterized LOC100134368	4.208	5.688	Up
1.05E+08	LOC105371036	replaced by ID 58986	2.813	3.58	Up
283948	NHLRC4	NHL repeat containing 4	1.441	2.279	Up
57799	RAB40C	RAB40C, member RAS oncogene family	0.619	2.328	Up

1E+08	LOC100287175	uncharacterized LOC100287175	1.866	2.121	Up
9028	RHBDL1	rhomboid like 1	2.476	1.498	Up
146330	FBXL16	F-box and leucine rich repeat protein 16	1.691	24.428	Up
30812	SOX8	SRY-box transcription factor 8	0.965	1.411	Up
1.08E+08	LOC107984898		2.205	9.983	Up
84572	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma	0.459	1.411	Up
9742	IFT140	intraflagellar transport 140	0.965	2.276	Up
79652	TMEM204	transmembrane protein 204	2.337	20.1	Up
90864	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3	0.854	4.22	Up
5310	PKD1	polycystin 1, transient receptor potential channel interacting	0.869	1.365	Up
1.05E+08	PKD1-AS1	PKD1 antisense RNA 1	1.152	1.384	Up
1877	E4F1	E4F transcription factor 1	0.521	1.35	Up
51005	AMDHD2	amidohydrolase domain containing 2	0.756	2.636	Up
752014	CEMP1	cementum protein 1	1.229	2.367	Up
7755	ZNF205	zinc finger protein 205	1.603	1.472	Up
1.01E+08	ZNF213-AS1	ZNF213 antisense RNA 1 (head to head)	0.953	1.718	Up
283876	LINC00921	long intergenic non-protein coding RNA 921	1.496	5.578	Up
91151	TIGD7	tigger transposable element derived 7	0.896	2.517	Up
7727	ZNF174	zinc finger protein 174	0.778	6.899	Up
23059	CLUAP1	clusterin associated protein 1	0.773	4.229	Up
197358	NLRC3	NLR family CARD domain containing 3	1.073	3.867	Up
1.02E+08	LOC101929732	uncharacterized LOC101929732	1.458	2.639	Up
1.01E+08	LINC01569	long intergenic non-protein coding RNA 1569	1.088	1.82	Up
7023	TFAP4	transcription factor AP-4	1.073	8.205	Up
26048	ZNF500	zinc finger protein 500	0.94	2.966	Up
51172	NAGPA	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase	0.611	3.267	Up
25880	TMEM186	transmembrane protein 186	0.49	1.324	Up
1E+08	LOC100130283	uncharacterized LOC100130283	0.667	1.534	Up
23589	CARHSP1	calcium regulated heat stable protein 1	1.035	3.212	Up
80063	ATF7IP2	activating transcription factor 7 interacting protein 2	0.756	1.879	Up
28955	DEXI	Dexi homolog	0.539	2.129	Up
9516	LITAF	lipopolysaccharide induced TNF factor	0.596	2.881	Up
92017	SNX29	sorting nexin 29	0.626	2.873	Up
23042	PDXDC1	pyridoxal dependent decarboxylase domain containing 1	0.359	2.439	Up
9665	MARF1	meiosis regulator and mRNA stability factor 1	0.817	4.611	Up
64131	XYLT1	xylosyltransferase 1	1.997	4.956	Up
1.03E+08	LOC102723692	uncharacterized LOC102723692	1.604	2.805	Up
6296	ACSM3	acyl-CoA synthetase medium chain family member 3	0.956	1.518	Up
57146	LDAF1	lipid droplet assembly factor 1	1.483	5.705	Up
10261	IGSF6	immunoglobulin superfamily member 6	1.484	1.451	Up
1039	CDR2	cerebellar degeneration related protein 2	0.656	3.088	Up

23062	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.407	1.765	Up
388228	SBK1	SH3 domain binding kinase 1	1.403	5.818	Up
112869	SGF29	SAGA complex associated factor 29	0.896	2.824	Up
6817	SULT1A1	sulfotransferase family 1A member 1	0.765	1.811	Up
25970	SH2B1	SH2B adaptor protein 1	0.63	1.767	Up
1.05E+08	LOC105371168	uncharacterized LOC105371168	2.104	1.7	Up
6693	SPN	sialophorin	0.696	1.395	Up
283897	C16orf54	chromosome 16 open reading frame 54	1.406	14.262	Up
3835	KIF22	kinesin family member 22	0.346	1.334	Up
124446	TMEM219	transmembrane protein 219	0.829	3.172	Up
83719	YPEL3	yippee like 3	1.572	15.706	Up
1.08E+08	ZNF747-DT	ZNF747 divergent transcript	1.016	1.672	Up
146542	ZNF688	zinc finger protein 688	0.845	3.309	Up
93129	ORAI3	ORAI calcium release-activated calcium modulator 3	1.183	4.665	Up
80270	HSD3B7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	2.248	2.608	Up
9726	ZNF646	zinc finger protein 646	0.511	1.35	Up
29108	PYCARD	PYD and CARD domain containing	1.167	4.106	Up
1.01E+08	PYCARD-AS1	PYCARD antisense RNA 1	1.027	2.863	Up
1.12E+08	LOC112268166		0.381	1.42	Up
113	ADCY7	adenylate cyclase 7	0.885	1.503	Up
80205	CHD9	chromodomain helicase DNA binding protein 9	0.752	1.696	Up
5934	RBL2	RB transcriptional corepressor like 2	1.29	6.466	Up
64400	AKTIP	AKT interacting protein	0.742	2.341	Up
54947	LPCAT2	lysophosphatidylcholine acyltransferase 2	1.921	3.751	Up
1066	CES1	carboxylesterase 1	1.253	1.587	Up
2775	GNAO1	G protein subunit alpha o1	2.304	3.793	Up
267	AMFR	autocrine motility factor receptor	0.654	4.094	Up
583	BBS2	Bardet-Biedl syndrome 2	1.125	3.755	Up
51090	PLLP	plasmolipin	2.02	1.367	Up
1.08E+08	LOC107984852	uncharacterized LOC107984852	2.195	1.53	Up
57567	ZNF319	zinc finger protein 319	0.677	2.378	Up
1459	CSNK2A2	casein kinase 2 alpha 2	0.342	1.481	Up
1.01E+08	LINC00920	long intergenic non-protein coding RNA 920	2.108	4.256	Up
8824	CES2	carboxylesterase 2	0.577	2.456	Up
1.02E+08	ATP6V0D1-DT	ATP6V0D1 divergent transcript	0.968	1.838	Up
388284	C16orf86	chromosome 16 open reading frame 86	1.811	3.375	Up
57215	THAP11	THAP domain containing 11	0.703	2.759	Up
64174	DPEP2	dipeptidase 2	2.949	43.809	Up
146198	ZFP90	ZFP90 zinc finger protein	0.899	6.063	Up
6645	SNTB2	syntrophin beta 2	1.126	2.438	Up
283970	PDXDC2P-NPIPB14P	PDXDC2P-NPIPB14P readthrough	0.815	2.01	Up
55066	PDPR	pyruvate dehydrogenase phosphatase regulatory subunit	0.592	1.314	Up
197258	FCSK	fucose kinase	0.563	1.576	Up

7567	ZNF19	zinc finger protein 19	1.068	1.599	Up
55565	ZNF821	zinc finger protein 821	0.638	1.396	Up
54957	TXNL4B	thioredoxin like 4B	0.342	2.04	Up
2734	GLG1	golgi glycoprotein 1	1.023	11.018	Up
283927	NUDT7	nudix hydrolase 7	0.992	2.434	Up
80790	CMIP	c-Maf inducing protein	0.787	2.158	Up
5336	PLCG2	phospholipase C gamma 2	1.009	1.369	Up
23417	MLYCD	malonyl-CoA decarboxylase	0.569	3.303	Up
57707	MEAK7	MTOR associated protein, eak-7 homolog	0.686	1.982	Up
79786	KLHL36	kelch like family member 36	0.51	2.112	Up
9764	KIAA0513	KIAA0513	0.748	2.523	Up
404550	C16orf74	chromosome 16 open reading frame 74	4.474	9.842	Up
64779	MTHFSD	methenyltetrahydrofolate synthetase domain containing	0.563	2.378	Up
81631	MAP1LC3B	microtubule associated protein 1 light chain 3 beta	0.385	1.58	Up
23174	ZCCHC14	zinc finger CCHC-type containing 14	1.066	4.144	Up
54971	BANP	BTG3 associated nuclear protein	0.777	2.828	Up
197187	SNAI3-AS1	SNAI3 antisense RNA 1	1.165	2.917	Up
333929	SNAI3	snail family transcriptional repressor 3	1.846	12.08	Up
115992	RNF166	ring finger protein 166	1.856	13.441	Up
863	CBFA2T3	CBFA2/RUNX1 partner transcriptional co-repressor 3	1.021	1.849	Up
197322	ACSF3	acyl-CoA synthetase family member 3	0.664	2.906	Up
1.02E+08	LOC101930112	uncharacterized LOC101930112	0.878	2.004	Up
606500	SNORD68	small nucleolar RNA, C/D box 68	0.95	1.776	Up
27132	CPNE7	copine 7	1.853	3.042	Up
92822	ZNF276	zinc finger protein 276	1.22	5.377	Up
2175	FANCA	FA complementation group A	0.706	2.35	Up
1.01E+08	RPH3AL-AS1	RPH3AL antisense RNA 1	4.408	1.913	Up
51031	GLOD4	glyoxalase domain containing 4	0.577	2.458	Up
51763	INPP5K	inositol polyphosphate-5-phosphatase K	0.525	2.31	Up
1E+08	PITPNA-AS1	PITPNA antisense RNA 1	1.214	2.753	Up
124997	WDR81	WD repeat domain 81	0.824	3.496	Up
5345	SERPINF2	serpin family F member 2	2.154	1.706	Up
9905	SGSM2	small G protein signaling modulator 2	0.783	1.84	Up
4335	MNT	MAX network transcriptional repressor	1.001	3.483	Up
23108	RAP1GAP2	RAP1 GTPase activating protein 2	2.106	5.529	Up
7442	TRPV1	transient receptor potential cation channel subfamily V member 1	1.641	1.991	Up
3682	ITGAE	integrin subunit alpha E	0.804	3.237	Up
201305	SPNS3	SPNS lysolipid transporter 3, sphingosine-1-phosphate (putative)	1.028	1.775	Up
409	ARRB2	arrestin beta 2	0.808	8.282	Up
58191	CXCL16	C-X-C motif chemokine ligand 16	1.189	2.108	Up
284013	VMO1	vitelline membrane outer layer 1 homolog	3.812	4.525	Up
50488	MINK1	misshapen like kinase 1	0.856	4.446	Up
728392	LOC728392	uncharacterized LOC728392	1.052	2.859	Up
22861	NLRP1	NLR family pyrin domain containing 1	1.498	3.243	Up
1.01E+08	ALOX12-AS1	ALOX12 antisense RNA 1	1.32	2.965	Up
239	ALOX12	arachidonate 12-lipoxygenase, 12S type	1.095	4.932	Up
10462	CLEC10A	C-type lectin domain containing 10A	3.083	7.317	Up

433	ASGR2	asialoglycoprotein receptor 2	3.193	1.443	Up
9744	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.621	4.438	Up
8711	TNK1	tyrosine kinase non receptor 1	0.77	4.817	Up
1.01E+08	TMEM256-PLSCR3	TMEM256-PLSCR3 readthrough (NMD candidate)	0.395	1.854	Up
57048	PLSCR3	phospholipid scramblase 3	0.411	2.107	Up
57659	ZBTB4	zinc finger and BTB domain containing 4	0.618	2.877	Up
968	CD68	CD68 molecule	1.861	3.353	Up
1.01E+08	LOC100996842	uncharacterized LOC100996842	0.746	1.693	Up
112483	SAT2	spermidine/spermine N1-acetyltransferase family member 2	0.764	4.545	Up
284023	RNF227	ring finger protein 227	1.057	4.43	Up
59344	ALOXE3	arachidonate lipoxygenase 3	2.673	2.36	Up
6844	VAMP2	vesicle associated membrane protein 2	0.499	1.513	Up
84314	TMEM107	transmembrane protein 107	1.711	10.116	Up
54785	BORCS6	BLOC-1 related complex subunit 6	0.712	3.46	Up
284029	LINC00324	long intergenic non-protein coding RNA 324	1.696	6.248	Up
1E+08	TRD-GTC2-11	tRNA-Asp (anticodon GTC) 2-11	1.809	1.985	Up
80169	CTC1	CST telomere replication complex component 1	0.759	4.05	Up
1.08E+08	LOC107985063		1.493	2.944	Up
23533	PIK3R5	phosphoinositide-3-kinase regulatory subunit 5	1.089	7.123	Up
8522	GAS7	growth arrest specific 7	2.487	7.957	Up
56985	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent	1.352	6.684	Up
388335	TMEM220	transmembrane protein 220	1.537	7.442	Up
1.01E+08	MAGOH2P	mago homolog 2, pseudogene	1.641	2.293	Up
7566	ZNF18	zinc finger protein 18	0.735	3.389	Up
9955	HS3ST3A1	heparan sulfate-glucosamine 3-sulfotransferase 3A1	0.952	1.383	Up
1.01E+08	COX10-DT	COX10 divergent transcript	0.749	1.394	Up
9953	HS3ST3B1	heparan sulfate-glucosamine 3-sulfotransferase 3B1	0.879	2.784	Up
5376	PMP22	peripheral myelin protein 22	1.71	1.932	Up
136	ADORA2B	adenosine A2b receptor	1.71	2.681	Up
125150	ZSWIM7	zinc finger SWIM-type containing 7	0.544	2.918	Up
57336	ZNF287	zinc finger protein 287	0.541	2.636	Up
57547	ZNF624	zinc finger protein 624	0.851	4.463	Up
201163	FLCN	folliculin	0.576	2.216	Up
146691	TOM1L2	target of myb1 like 2 membrane trafficking protein	0.932	5.908	Up
125170	MIEF2	mitochondrial elongation factor 2	0.852	2.709	Up
140775	SMCR8	SMCR8-C9orf72 complex subunit	0.563	2	Up
125206	SLC5A10	solute carrier family 5 member 10	1.469	3.068	Up
10750	GRAP	GRB2 related adaptor protein	1.727	3.837	Up
400581	GRAPL	GRB2 related adaptor protein like	1.377	3.221	Up
388436	LOC388436	uncharacterized protein ENSP00000382042	2.278	2.053	Up
5598	MAPK7	mitogen-activated protein kinase 7	0.746	1.671	Up
256302	NATD1	N-acetyltransferase domain containing 1	2.172	17.537	Up
201229	LYRM9	LYR motif containing 9	1.196	7.422	Up
2319	FLOT2	flotillin 2	0.565	5.001	Up
147015	DHRS13	dehydrogenase/reductase 13	0.47	2.01	Up

57649	PHF12	PHD finger protein 12	0.672	1.688	Up
116236	ABHD15	abhydrolase domain containing 15	0.419	1.709	Up
85464	SSH2	slingshot protein phosphatase 2	1.513	10.5	Up
51379	CRLF3	cytokine receptor like factor 3	0.576	1.319	Up
4763	NF1	neurofibromin 1	0.82	1.729	Up
84440	RAB11FIP4	RAB11 family interacting protein 4	0.607	1.615	Up
114659	LRRC37B	leucine rich repeat containing 37B	1.706	3.605	Up
8851	CDK5R1	cyclin dependent kinase 5 regulatory subunit 1	2.207	4.52	Up
6347	CCL2	C-C motif chemokine ligand 2	1.849	3.106	Up
124842	TMEM132E	transmembrane protein 132E	2.835	3.412	Up
117584	RFFL	ring finger and FYVE like domain containing E3 ubiquitin protein ligase	0.572	2.394	Up
1.01E+08	RAD51L3-RFFL	RAD51L3-RFFL readthrough	0.531	1.862	Up
1.05E+08	LOC105371932	uncharacterized LOC105371932	0.876	1.402	Up
162394	SLFN5	schlafen family member 5	1.295	1.651	Up
79148	MMP28	matrix metallopeptidase 28	4.849	10.009	Up
414059	TBC1D3B	TBC1 domain family member 3B	1.408	1.729	Up
1.03E+08	TBC1D3I	TBC1 domain family member 3I	1.453	2.01	Up
729877	TBC1D3H	TBC1 domain family member 3H	1.327	1.66	Up
84218	TBC1D3F	TBC1 domain family member 3F	1.307	1.926	Up
11276	SYNRG	synergin gamma	0.537	2.303	Up
1.01E+08	TBC1D3K	TBC1 domain family member 3K	1.299	1.794	Up
1.01E+08	TBC1D3D	TBC1 domain family member 3D	1.316	2.076	Up
414060	TBC1D3C	TBC1 domain family member 3C	1.373	1.552	Up
1.03E+08	TBC1D3E	TBC1 domain family member 3E	0.636	2.121	Up
729873	TBC1D3	TBC1 domain family member 3	1.361	1.505	Up
8396	PIP4K2B	phosphatidylinositol-5-phosphate 4-kinase type 2 beta	0.685	5.044	Up
84961	FBXL20	F-box and leucine rich repeat protein 20	1.004	2.665	Up
10948	STARD3	StAR related lipid transfer domain containing 3	0.415	1.758	Up
8557	TCAP	titin-cap	1.266	1.383	Up
93210	PGAP3	post-GPI attachment to proteins phospholipase 3	0.913	3.194	Up
2064	ERBB2	erb-b2 receptor tyrosine kinase 2	0.877	2.168	Up
7067	THRA	thyroid hormone receptor alpha	1.8	20.179	Up
9572	NR1D1	nuclear receptor subfamily 1 group D member 1	1.869	16.268	Up
339287	MSL1	MSL complex subunit 1	0.513	2.55	Up
1236	CCR7	C-C motif chemokine receptor 7	0.684	2.743	Up
9001	HAP1	huntingtin associated protein 1	3.43	1.401	Up
6777	STAT5B	signal transducer and activator of transcription 5B	0.577	2.5	Up
162427	RETREG3	reticulophagy regulator family member 3	0.609	4.155	Up
2145	EZH1	enhancer of zeste 1 polycomb repressive complex 2 subunit	0.936	5.624	Up
10493	VAT1	vesicle amine transport 1	0.883	5.196	Up
10230	NBR2	neighbor of BRCA1 lncRNA 2	1.002	3.676	Up
4077	NBR1	NBR1 autophagy cargo receptor	0.395	1.968	Up
1E+08	LINC00910	long intergenic non-protein coding RNA 910	1.348	2.786	Up
92591	ASB16	ankyrin repeat and SOCS box containing 16	1.082	1.636	Up

339201	ASB16-AS1	ASB16 antisense RNA 1	1.243	6.709	Up
2896	GRN	granulin precursor	0.79	3.475	Up
2535	FZD2	frizzled class receptor 2	2.394	2.466	Up
79877	DCAKD	dephospho-CoA kinase domain containing	0.358	1.617	Up
79777	ACBD4	acyl-CoA binding domain containing 4	1.059	4.006	Up
9842	PLEKHM1	pleckstrin homology and RUN domain containing M1	0.387	1.636	Up
55073	LRRC37A4P	leucine rich repeat containing 37 member A4, pseudogene	1.252	1.408	Up
284058	KANSL1	KAT8 regulatory NSL complex subunit 1	0.751	3.047	Up
644246	KANSL1-AS1	KANSL1 antisense RNA 1	1.168	1.324	Up
114881	OSBPL7	oxysterol binding protein like 7	1.371	3.365	Up
124995	MRPL10	mitochondrial ribosomal protein L10	0.495	3.462	Up
90507	SCRN2	secernin 2	0.657	2.516	Up
22834	ZNF652	zinc finger protein 652	0.924	5.555	Up
81558	FAM117A	family with sequence similarity 117 member A	0.73	9.001	Up
5164	PDK2	pyruvate dehydrogenase kinase 2	0.485	1.85	Up
201191	SAMD14	sterile alpha motif domain containing 14	0.615	1.809	Up
80221	ACSF2	acyl-CoA synthetase family member 2	0.869	3.443	Up
55316	RSAD1	radical S-adenosyl methionine domain containing 1	0.559	3.284	Up
8714	ABCC3	ATP binding cassette subfamily C member 3	1.993	1.679	Up
10140	TOB1	transducer of ERBB2, 1	1.027	5.291	Up
400604	TOB1-AS1	TOB1 antisense RNA 1	2.205	4.318	Up
54799	MBTD1	mbt domain containing 1	0.919	5.36	Up
9241	NOG	noggin	3.763	8.441	Up
124540	MSI2	musashi RNA binding protein 2	0.47	1.68	Up
55545	MSX2P1	msh homeobox 2 pseudogene 1	1.405	3.438	Up
4353	MPO	myeloperoxidase	3.284	3.526	Up
4591	TRIM37	tripartite motif containing 37	0.39	1.371	Up
284161	GDPD1	glycerophosphodiester phosphodiesterase domain containing 1	1.204	1.791	Up
388403	YPEL2	yippee like 2	1.586	3.107	Up
1.05E+08	HEATR6-DT	HEATR6 divergent transcript	3.838	2.713	Up
645638	WFDC21P	WAP four-disulfide core domain 21, pseudogene	3.852	4.166	Up
54828	BCAS3	BCAS3 microtubule associated cell migration factor	0.864	3.017	Up
11011	TLK2	tousled like kinase 2	0.3	1.561	Up
26115	TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	0.952	2.029	Up
1636	ACE	angiotensin I converting enzyme	2.095	6.02	Up
4215	MAP3K3	mitogen-activated protein kinase kinase kinase 3	0.927	21.355	Up
1.02E+08	LOC101927898	uncharacterized LOC101927898	1.141	1.385	Up
80774	LIMD2	LIM domain containing 2	0.453	1.474	Up
2081	ERN1	endoplasmic reticulum to nucleus signaling 1	1.309	3.18	Up
11232	POLG2	DNA polymerase gamma 2, accessory subunit	0.444	1.42	Up
90799	CEP95	centrosomal protein 95	0.602	2.235	Up
8313	AXIN2	axin 2	1.027	15.971	Up
26207	PITPNC1	phosphatidylinositol transfer protein cytoplasmic 1	1.381	8.317	Up
1.02E+08	LOC101928045	uncharacterized LOC101928045	1.209	4.714	Up
1.05E+08	LOC105371870	uncharacterized LOC105371870	0.999	1.858	Up
5608	MAP2K6	mitogen-activated protein kinase kinase 6	2.773	14.13	Up

9382	COG1	component of oligomeric golgi complex 1	0.392	1.534	Up
54549	SDK2	sidekick cell adhesion molecule 2	1.832	2.933	Up
94015	TTYH2	tweety family member 2	1.214	1.932	Up
11314	CD300A	CD300a molecule	1.088	3.422	Up
146722	CD300LF	CD300 molecule like family member f	2.15	2.169	Up
1.05E+08	SLC9A3R1-AS1	SLC9A3R1 antisense RNA 1	0.786	2.424	Up
1.01E+08	MIR3615	microRNA 3615	0.728	1.558	Up
9368	NHERF1	NHERF family PDZ scaffold protein 1	0.593	1.97	Up
23510	KCTD2	potassium channel tetramerization domain containing 2	0.633	5.016	Up
9121	SLC16A5	solute carrier family 16 member 5	1.229	1.597	Up
79637	ARMC7	armadillo repeat containing 7	0.657	3.584	Up
9400	RECQL5	RecQ like helicase 5	0.843	2.456	Up
201292	TRIM65	tripartite motif containing 65	0.72	6.84	Up
85302	FBF1	Fas binding factor 1	1.442	3.085	Up
2302	FOXJ1	forkhead box J1	1.468	1.665	Up
1.01E+08	RNF157-AS1	RNF157 antisense RNA 1	1.493	15.906	Up
114804	RNF157	ring finger protein 157	1.065	3.711	Up
84074	QRICH2	glutamine rich 2	2.252	2.056	Up
15	AANAT	aralkylamine N-acetyltransferase	1.853	1.513	Up
114757	CYGB	cytoglobin	3.072	2.708	Up
768206	PRCD	photoreceptor disc component	2.611	2.097	Up
10610	ST6GALNAC2	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	2.219	3.317	Up
55808	ST6GALNAC1	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	1.741	6.351	Up
10801	SEPTIN9	septin 9	1.219	29.212	Up
1.12E+08	LOC112268199	uncharacterized LOC112268199	3.006	17.022	Up
57690	TNRC6C	trinucleotide repeat containing adaptor 6C	0.895	1.83	Up
1E+08	TNRC6C-AS1	replaced by ID 11322	1.906	11.27	Up
11322	TMC6	transmembrane channel like 6	0.975	3.778	Up
147138	TMC8	transmembrane channel like 8	1.331	9.259	Up
7077	TIMP2	TIMP metallopeptidase inhibitor 2	2.045	3.955	Up
64772	ENGASE	endo-beta-N-acetylglucosaminidase	0.714	1.32	Up
8535	CBX4	chromobox 4	1.149	6.204	Up
284131	ENDOV	endonuclease V	0.881	1.631	Up
1E+08	LOC100129503		1.265	1.906	Up
440465	BAIAP2-DT	BAIAP2 divergent transcript	1.095	4.162	Up
5148	PDE6G	phosphodiesterase 6G	1.439	1.357	Up
5986	RFNG	RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.684	2.801	Up
284001	CCDC57	coiled-coil domain containing 57	0.758	1.735	Up
64122	FN3K	fructosamine 3 kinase	0.965	2.633	Up
81035	COLEC12	collectin subfamily member 12	3.166	2.53	Up
645158	CBX3P2	CBX3 pseudogene 2	1.784	3.476	Up
23347	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	1.562	5.149	Up
7050	TGIF1	TGFB induced factor homeobox 1	1.305	3.624	Up
649446	DLGAP1-AS1	DLGAP1 antisense RNA 1	0.916	2.974	Up
7541	ZBTB14	zinc finger and BTB domain containing 14	0.858	7.828	Up

1.08E+08	LOC107985144	uncharacterized LOC107985144	3.047	1.921	Up
23136	EPB41L3	erythrocyte membrane protein band 4.1 like 3	2.43	2.754	Up
1.02E+08	NDUFV2-AS1	NDUFV2 antisense RNA 1	1.331	3.886	Up
11031	RAB31	RAB31, member RAS oncogene family	1.219	1.428	Up
2774	GNAL	G protein subunit alpha L	0.806	2.747	Up
57132	CHMP1B	charged multivesicular body protein 1B	0.387	1.822	Up
65258	MPPE1	metallophosphoesterase 1	0.803	4.776	Up
55125	CEP192	centrosomal protein 192	0.662	1.37	Up
753	LDLRAD4	low density lipoprotein receptor class A domain containing 4	0.83	3.977	Up
1.03E+08	TTC39C-AS1	TTC39C antisense RNA 1	1.421	2.002	Up
25925	ZNF521	zinc finger protein 521	1.575	1.763	Up
1824	DSC2	desmocollin 2	4.346	3.738	Up
1.02E+08	DSCAS	DSC1/DSC2 antisense RNA	3.245	1.4	Up
1823	DSC1	desmocollin 1	3.221	5.008	Up
1829	DSG2	desmoglein 2	1.703	1.715	Up
252884	ZNF396	zinc finger protein 396	1.768	3.182	Up
6563	SLC14A1	solute carrier family 14 member 1 (Kidd blood group)	2.698	1.614	Up
4092	SMAD7	SMAD family member 7	1.104	2.224	Up
54808	DYM	dymeclin	0.452	2.805	Up
26790	SNORD58B	small nucleolar RNA, C/D box 58B	0.986	1.558	Up
4089	SMAD4	SMAD family member 4	0.444	2.659	Up
6925	TCF4	transcription factor 4	1.156	3.033	Up
1.05E+08	LOC105372141	uncharacterized LOC105372141	1.026	2.736	Up
115701	ALPK2	alpha kinase 2	1.194	2.103	Up
57614	RELCH	RAB11 binding and LisH domain, coiled-coil and HEAT repeat containing	0.912	3.645	Up
79839	CCDC102B	coiled-coil domain containing 102B	1.713	2.362	Up
25914	RTTN	rotatin	0.515	2.112	Up
220158	GTSCR1	Gilles de la Tourette syndrome chromosome region, candidate 1	2.822	4.352	Up
201456	FBXO15	F-box protein 15	1.23	1.809	Up
284273	PTGR3	prostaglandin reductase 3	1.242	4.183	Up
10194	TSHZ1	teashirt zinc finger homeobox 1	1.083	5.36	Up
4155	MBP	myelin basic protein	1.315	10.864	Up
374868	ATP9B	ATPase phospholipid transporting 9B (putative)	0.429	1.702	Up
4772	NFATC1	nuclear factor of activated T cells 1	0.662	1.92	Up
440498	HSBP1L1	heat shock factor binding protein 1 like 1	0.705	1.868	Up
610	HCN2	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2	1.124	2.434	Up
91300	R3HDM4	R3H domain containing 4	0.917	6.03	Up
1265	CNN2	calponin 2	0.974	2.714	Up
10347	ABCA7	ATP binding cassette subfamily A member 7	1.717	5.018	Up
23526	ARHGAP45	Rho GTPase activating protein 45	0.984	5.698	Up
10297	APC2	APC regulator of WNT signaling pathway 2	1.156	2.265	Up
148223	C19orf25	chromosome 19 open reading frame 25	0.572	1.718	Up
81926	ABHD17A	abhydrolase domain containing 17A, depalmitoylase	0.793	4.725	Up
1455	CSNK1G2	casein kinase 1 gamma 2	0.423	1.376	Up

55643	BTBD2	BTB domain containing 2	1.168	22.737	Up
8175	SF3A2	splicing factor 3a subunit 2	0.423	1.367	Up
645191	LINGO3	leucine rich repeat and Ig domain containing 3	2.449	5.421	Up
56928	SPPL2B	signal peptide peptidase like 2B	0.728	3.234	Up
2788	GNG7	G protein subunit gamma 7	1.471	4.476	Up
115196	ZNF554	zinc finger protein 554	1.362	5.292	Up
148254	ZNF555	zinc finger protein 555	0.558	1.41	Up
166	TLE5	TLE family member 5, transcriptional modulator	0.922	5.498	Up
8698	S1PR4	sphingosine-1-phosphate receptor 4	1.526	15.447	Up
51343	FZR1	fizzy and cell division cycle 20 related 1	0.543	2.179	Up
6915	TBXA2R	thromboxane A2 receptor	2.737	12	Up
27134	TJP3	tight junction protein 3	1.441	7.286	Up
51341	ZBTB7A	zinc finger and BTB domain containing 7A	0.639	1.395	Up
126259	TMIGD2	transmembrane and immunoglobulin domain containing 2	1.517	4.1	Up
10501	SEMA6B	semaphorin 6B	2.496	4.049	Up
374875	HSD11B1L	hydroxysteroid 11-beta dehydrogenase 1 like	1.137	2.714	Up
400673	VMAC	vimentin type intermediate filament associated coiled-coil protein	0.972	3.042	Up
828	CAPS	calcyphosine	1.308	3.894	Up
5623	PSPN	persephin	2.052	1.32	Up
79958	DENND1C	DENN domain containing 1C	0.53	2.576	Up
2015	ADGRE1	adhesion G protein-coupled receptor E1	1.169	2.601	Up
1.05E+08	LOC105372256	uncharacterized LOC105372256	2.185	1.413	Up
23370	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18	1.686	5.743	Up
1.08E+08	LOC107985284	uncharacterized LOC107985284	2.798	3.706	Up
56949	XAB2	XPA binding protein 2	0.411	1.636	Up
126006	PCP2	Purkinje cell protein 2	1.836	2.828	Up
9230	RAB11B	RAB11B, member RAS oncogene family	0.507	3.555	Up
51257	MARCHF2	membrane associated ring-CH-type finger 2	0.423	1.436	Up
84106	PRAM1	PML-RARA regulated adaptor molecule 1	1.951	1.988	Up
84330	ZNF414	zinc finger protein 414	0.68	2.142	Up
4542	MYO1F	myosin IF	1.431	4.315	Up
81794	ADAMTS10	ADAM metallopeptidase with thrombospondin type 1 motif 10	1.509	1.496	Up
374879	ZNF699	zinc finger protein 699	0.601	3.014	Up
84527	ZNF559	zinc finger protein 559	0.532	1.921	Up
10781	ZNF266	zinc finger protein 266	0.709	4.69	Up
162993	ZNF846	zinc finger protein 846	1.096	1.798	Up
93145	OLFM2	olfactomedin 2	1.899	3.963	Up
1032	CDKN2D	cyclin dependent kinase inhibitor 2D	1.506	8.327	Up
57153	SLC44A2	solute carrier family 44 member 2	0.629	1.556	Up
147727	ILF3-DT	ILF3 divergent transcript	0.572	1.694	Up
90580	TIMM29	translocase of inner mitochondrial membrane 29	0.438	1.851	Up
115948	ODAD3	outer dynein arm docking complex subunit 3	0.655	3.013	Up
5589	PRKCSH	protein kinase C substrate 80K-H	0.652	3.887	Up
54	ACP5	acid phosphatase 5, tartrate resistant	1.421	3.296	Up
55552	ZNF823	zinc finger protein 823	0.817	1.567	Up
126069	ZNF491	zinc finger protein 491	1.66	3.438	Up
126070	ZNF440	zinc finger protein 440	0.648	2.148	Up
90594	ZNF439	zinc finger protein 439	1.121	4.17	Up

90592	ZNF700	zinc finger protein 700	0.676	2.222	Up
284390	ZNF763	zinc finger protein 763	1.485	3.947	Up
1.01E+08	ZNF625-ZNF20	ZNF625-ZNF20 readthrough (NMD candidate)	0.705	1.37	Up
7568	ZNF20	zinc finger protein 20	0.685	1.317	Up
51710	ZNF44	zinc finger protein 44	1.237	6.001	Up
147837	ZNF563	zinc finger protein 563	0.956	2.908	Up
90576	ZNF799	zinc finger protein 799	0.686	1.633	Up
163051	ZNF709	zinc finger protein 709	0.928	4.936	Up
163050	ZNF564	zinc finger protein 564	0.687	2.644	Up
1777	DNASE2	deoxyribonuclease 2, lysosomal	0.41	1.633	Up
4066	LYL1	LYL1 basic helix-loop-helix family member	0.847	3.036	Up
5989	RFX1	regulatory factor X1	0.611	2.419	Up
5585	PKN1	protein kinase N1	0.252	1.308	Up
9524	TECR	trans-2,3-enoyl-CoA reductase	0.812	4.298	Up
84449	ZNF333	zinc finger protein 333	0.725	1.877	Up
26993	AKAP8L	A-kinase anchoring protein 8 like	0.762	3.797	Up
10365	KLF2	KLF transcription factor 2	2.651	33.079	Up
376497	SLC27A1	solute carrier family 27 member 1	0.816	2.556	Up
27106	ARRDC2	arrestin domain containing 2	1.786	11.646	Up
10437	IFI30	IFI30 lysosomal thiol reductase	1.698	2.659	Up
5864	RAB3A	RAB3A, member RAS oncogene family	1.797	7.327	Up
80726	IQCN	IQ motif containing N	1.547	1.454	Up
1.05E+08	LOC105372300	uncharacterized LOC105372300	1.502	2.808	Up
54858	PGPEP1	pyroglutamyl-peptidase I	0.782	1.376	Up
9518	GDF15	growth differentiation factor 15	3.327	1.716	Up
126364	LRRC25	leucine rich repeat containing 25	2.827	6.332	Up
55295	KLHL26	kelch like family member 26	0.487	1.696	Up
23373	CRTC1	CREB regulated transcription coactivator 1	1.25	4.094	Up
284439	SLC25A42	solute carrier family 25 member 42	1.222	10.527	Up
23383	MAU2	MAU2 sister chromatid cohesion factor	0.637	2.906	Up
94039	ZNF101	zinc finger protein 101	1.108	1.488	Up
7561	ZNF14	zinc finger protein 14	0.719	2.114	Up
284440	LINC00663	long intergenic non-protein coding RNA 663	2.49	4.112	Up
1E+08	ZNF737	zinc finger protein 737	0.632	2.203	Up
80264	ZNF430	zinc finger protein 430	0.429	1.86	Up
170959	ZNF431	zinc finger protein 431	0.688	1.887	Up
284443	ZNF493	zinc finger protein 493	0.591	2.496	Up
353088	ZNF429	zinc finger protein 429	1.307	4.87	Up
148213	ZNF681	zinc finger protein 681	0.759	1.575	Up
9534	ZNF254	zinc finger protein 254	0.524	1.589	Up
1.02E+08	LINC02987	long intergenic non-protein coding RNA 2987	0.571	1.703	Up
79156	PLEKHF1	pleckstrin homology and FYVE domain containing 1	0.957	4.067	Up
1050	CEBPA	CCAAT enhancer binding protein alpha	1.238	1.919	Up
9710	GARRE1	granule associated Rac and RHOG effector 1	1.145	10.446	Up
339318	ZNF181	zinc finger protein 181	0.484	1.75	Up
148103	ZNF599	zinc finger protein 599	1.179	2.531	Up
400685	LINC01801	long intergenic non-protein coding RNA 1801	2.519	10.423	Up
90075	ZNF30	zinc finger protein 30	0.774	2.007	Up
126375	ZNF792	zinc finger protein 792	1.397	6.694	Up

57655	GRAMD1A	GRAM domain containing 1A	1	7.143	Up
5348	FXYD1	FXYD domain containing ion transport regulator 1	1.4	4.342	Up
53822	FXYD7	FXYD domain containing ion transport regulator 7	2.158	15.046	Up
53827	FXYD5	FXYD domain containing ion transport regulator 5	1.005	4.157	Up
51599	LSR	lipolysis stimulated lipoprotein receptor	0.731	4.387	Up
7392	USF2	upstream transcription factor 2, c-fos interacting	0.701	4.61	Up
199746	U2AF1L4	U2 small nuclear RNA auxiliary factor 1 like 4	0.533	2.545	Up
7305	TYROBP	transmembrane immune signaling adaptor TYROBP	1.782	3.304	Up
199745	THAP8	THAP domain containing 8	0.771	1.66	Up
57677	ZFP14	ZFP14 zinc finger protein	1.008	11.131	Up
84924	ZNF566	zinc finger protein 566	0.53	3.297	Up
339324	ZNF260	zinc finger protein 260	0.361	1.456	Up
57711	ZNF529	zinc finger protein 529	0.529	4.236	Up
92283	ZNF461	zinc finger protein 461	0.53	1.539	Up
1.02E+08	ZNF567-DT	ZNF567 divergent transcript	1.661	3.127	Up
25850	ZNF345	zinc finger protein 345	0.678	3.088	Up
374900	ZNF568	zinc finger protein 568	0.505	2.125	Up
92285	ZNF585B	zinc finger protein 585B	0.703	1.956	Up
163087	ZNF383	zinc finger protein 383	0.716	4.365	Up
284459	ZNF875	zinc finger protein 875	0.794	5.07	Up
84503	ZNF527	zinc finger protein 527	0.508	1.435	Up
163255	ZNF540	zinc finger protein 540	0.99	2.729	Up
51276	ZNF571	zinc finger protein 571	0.624	1.799	Up
22835	ZFP30	ZFP30 zinc finger protein	0.928	1.609	Up
147965	FAM98C	family with sequence similarity 98 member C	0.673	1.574	Up
342897	NCCRP1	NCCRP1, F-box associated domain containing	2.448	3.956	Up
57622	LRFN1	leucine rich repeat and fibronectin type III domain containing 1	1.18	8.538	Up
7538	ZFP36	ZFP36 ring finger protein	0.589	2.135	Up
126272	EID2B	EP300 interacting inhibitor of differentiation 2B	0.719	1.524	Up
9149	DYRK1B	dual specificity tyrosine phosphorylation regulated kinase 1B	1.013	4.423	Up
23646	PLD3	phospholipase D family member 3	0.89	9.956	Up
57716	PRX	periaxin	1.607	3.537	Up
1556	CYP2B7P	cytochrome P450 family 2 subfamily B member 7, pseudogene	1.413	1.324	Up
29785	CYP2S1	cytochrome P450 family 2 subfamily S member 1	2.217	1.958	Up
558	AXL	AXL receptor tyrosine kinase	2.662	2.523	Up
11100	HNRNPUL1	heterogeneous nuclear ribonucleoprotein U like 1	0.399	1.475	Up
1.05E+08	LOC105372401	uncharacterized LOC105372401	0.376	1.42	Up
90273	CEACAM21	CEA cell adhesion molecule 21	0.972	2.163	Up
9138	ARHGEF1	Rho guanine nucleotide exchange factor 1	0.812	3.797	Up
390937	ERFL	ETS repressor factor like	1.396	3.07	Up
1.01E+08	LOC100505585	replaced by ID 9138	1.742	4.254	Up
162989	DEDD2	death effector domain containing 2	0.515	2.135	Up
27076	LYPD3	LY6/PLAUR domain containing 3	1.114	3.365	Up
284346	ZNF575	zinc finger protein 575	1.484	3.007	Up
7515	XRCC1	X-ray repair cross complementing 1	0.605	3.126	Up
284349	ZNF283	zinc finger protein 283	0.672	2.419	Up

7773	ZNF230	zinc finger protein 230	0.683	2.829	Up
7766	ZNF223	zinc finger protein 223	0.97	3.446	Up
342909	ZNF284	zinc finger protein 284	0.953	5.002	Up
7767	ZNF224	zinc finger protein 224	0.808	3.879	Up
1E+08	ZNF225-AS1	ZNF225 and ZNF224 antisense RNA 1	0.785	3.317	Up
7768	ZNF225	zinc finger protein 225	0.582	1.878	Up
10780	ZNF234	zinc finger protein 234	0.419	1.45	Up
7769	ZNF226	zinc finger protein 226	0.716	4.499	Up
7770	ZNF227	zinc finger protein 227	0.719	6.002	Up
7733	ZNF180	zinc finger protein 180	0.678	4.553	Up
284353	NKPD1	NTPase KAP family P-loop domain containing 1	1.399	1.454	Up
79090	TRAPPC6A	trafficking protein particle complex subunit 6A	0.763	2.114	Up
388552	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3	0.637	3.934	Up
54814	QPCTL	glutaminyl-peptide cyclotransferase like	1.353	2.061	Up
26145	IRF2BP1	interferon regulatory factor 2 binding protein 1	0.698	1.416	Up
339344	MYPOP	Myb related transcription factor, partner of profilin	0.588	1.524	Up
728	C5AR1	complement C5a receptor 1	1.735	2.499	Up
29997	NOP53	NOP53 ribosome biogenesis factor	0.727	2.3	Up
1.06E+08	NOP53-AS1	NOP53 antisense RNA 1	0.669	1.751	Up
374920	ZSWIM9	zinc finger SWIM-type containing 9	1.176	2.406	Up
22900	CARD8	caspase recruitment domain family member 8	0.587	5.203	Up
55260	TMEM143	transmembrane protein 143	0.935	2.5	Up
10945	KDELR1	KDEL endoplasmic reticulum protein retention receptor 1	0.445	3.665	Up
114783	LMTK3	lemur tyrosine kinase 3	1.662	5.938	Up
1628	DBP	D-box binding PAR bZIP transcription factor	2.35	25.847	Up
770	CA11	carbonic anhydrase 11	0.979	4.716	Up
653677	SEC1P	secretory blood group 1, pseudogene	1.256	1.911	Up
126147	NTN5	netrin 5	1.761	1.919	Up
1.05E+08	LOC105372431	uncharacterized LOC105372431	2.483	2.061	Up
951	CD37	CD37 molecule	0.924	6.992	Up
2217	FCGRT	Fc gamma receptor and transporter	1.327	5.746	Up
57479	PRR12	proline rich 12	1.043	3.104	Up
80199	FUZ	fuzzy planar cell polarity protein	0.625	3.219	Up
1.05E+08	LOC105372435	uncharacterized LOC105372435	1.055	1.543	Up
27036	SIGLEC7	sialic acid binding Ig like lectin 7	2.836	1.384	Up
2359	FPR3	formyl peptide receptor 3	4.014	7.231	Up
59348	ZNF350	zinc finger protein 350	1.07	6.488	Up
284370	ZNF615	zinc finger protein 615	0.608	2.716	Up
90317	ZNF616	zinc finger protein 616	0.946	5.756	Up
162962	ZNF836	zinc finger protein 836	0.919	3.806	Up
90321	ZNF766	zinc finger protein 766	0.683	5.911	Up
162963	ZNF610	zinc finger protein 610	1.184	2.528	Up
84436	ZNF528	zinc finger protein 528	0.686	2.033	Up
55762	ZNF701	zinc finger protein 701	0.476	1.768	Up
7696	ZNF137P	zinc finger protein 137, pseudogene	1.235	1.805	Up
55769	ZNF83	zinc finger protein 83	0.746	4.538	Up
162967	ZNF320	zinc finger protein 320	0.598	3.82	Up
125893	ZNF816	zinc finger protein 816	1.033	5.675	Up
90338	ZNF160	zinc finger protein 160	0.988	1.927	Up

84671	ZNF347	zinc finger protein 347	0.52	1.456	Up
91664	ZNF845	zinc finger protein 845	0.568	3.922	Up
1.08E+08	LOC107987264	putative zinc finger protein 137	0.843	2.776	Up
170958	ZNF525	zinc finger protein 525	0.622	2.305	Up
1.1E+08	ZNF765-ZNF761	ZNF765-ZNF761 readthrough	0.785	3.901	Up
388561	ZNF761	zinc finger protein 761	0.773	3.947	Up
55422	ZNF331	zinc finger protein 331	0.352	2.376	Up
126014	OSCAR	osteoclast associated Ig-like receptor	2.087	2.456	Up
79042	TSEN34	tRNA splicing endonuclease subunit 34	0.402	1.383	Up
3903	LAIR1	leukocyte associated immunoglobulin like receptor 1	1.059	1.721	Up
255043	TMEM86B	transmembrane protein 86B	0.839	1.608	Up
84787	KMT5C	lysine methyltransferase 5C	1.328	3.09	Up
388564	TMEM238	transmembrane protein 238	0.734	1.659	Up
163033	ZNF579	zinc finger protein 579	0.739	2.055	Up
147807	ZNF524	zinc finger protein 524	1.073	5.283	Up
1.01E+08	ZNF865	zinc finger protein 865	1.144	5.37	Up
51545	ZNF581	zinc finger protein 581	0.825	3.67	Up
386758	ZNF582-DT	ZNF582 divergent transcript	1.041	2.682	Up
390980	ZNF805	zinc finger protein 805	0.513	1.679	Up
1.05E+08	ZNF460-AS1	ZNF460 antisense RNA 1	1.697	1.595	Up
57343	ZNF304	zinc finger protein 304	0.437	2.011	Up
79744	ZNF419	zinc finger protein 419	0.629	3.172	Up
374928	ZNF773	zinc finger protein 773	0.735	3.137	Up
256051	ZNF549	zinc finger protein 549	0.501	3.158	Up
162972	ZNF550	zinc finger protein 550	1.258	3.96	Up
284307	ZIK1	zinc finger protein interacting with K protein 1	0.561	1.743	Up
348327	ZNF530	zinc finger protein 530	0.573	1.881	Up
10520	ZNF211	zinc finger protein 211	0.756	4.067	Up
79891	ZNF671	zinc finger protein 671	1.04	8.109	Up
79818	ZNF552	zinc finger protein 552	0.448	1.471	Up
80095	ZNF606	zinc finger protein 606	1.008	4.27	Up
65982	ZSCAN18	zinc finger and SCAN domain containing 18	0.921	3.973	Up
116412	ZNF837	zinc finger protein 837	1.114	2.055	Up
55663	ZNF446	zinc finger protein 446	0.857	3.042	Up
7593	MZF1	myeloid zinc finger 1	0.956	3.066	Up
6666	SOX12	SRY-box transcription factor 12	0.936	2.271	Up
9751	SNPH	syntaphilin	1.106	4.049	Up
79175	ZNF343	zinc finger protein 343	0.508	2.775	Up
64773	PCED1A	PC-esterase domain containing 1A	0.914	3.351	Up
5786	PTPRA	protein tyrosine phosphatase receptor type A	0.54	3.082	Up
551	AVP	arginine vasopressin	3.525	2.709	Up
22888	UBOX5	U-box domain containing 5	0.543	4.383	Up
9762	LZTS3	leucine zipper tumor suppressor family member 3	1.251	4.638	Up
994	CDC25B	cell division cycle 25B	1.659	9.156	Up
56255	TMX4	thioredoxin related transmembrane protein 4	0.975	5.144	Up
140862	ISM1	isthmin 1	2.279	5.56	Up
57325	KAT14	lysine acetyltransferase 14	0.435	2.376	Up
7692	ZNF133	zinc finger protein 133	0.863	3.588	Up

55857	KIZ	kizuna centrosomal protein	1.031	6.429	Up
1471	CST3	cystatin C	1.143	1.945	Up
26090	ABHD12	abhydrolase domain containing 12, lysophospholipase	0.532	1.409	Up
1E+08	FRG1CP	FSHD region gene 1 family member C, pseudogene	0.805	4.695	Up
140688	NOL4L	nucleolar protein 4 like	1.452	4.56	Up
1.02E+08	LOC101929698	uncharacterized LOC101929698	3.217	9.502	Up
9139	CBFA2T2	CBFA2/RUNX1 partner transcriptional co-repressor 2	0.914	2.055	Up
11264	PXMP4	peroxisomal membrane protein 4	0.949	4.74	Up
84905	ZNF341	zinc finger protein 341	0.53	1.359	Up
1.11E+08	MMP24-AS1-EDEM2	MMP24-AS1-EDEM2 readthrough	0.462	1.71	Up
57446	NDRG3	NDRG family member 3	0.865	7.317	Up
140710	SOGA1	suppressor of glucose, autophagy associated 1	1.021	1.662	Up
10904	BLCAP	BLCAP apoptosis inducing factor	0.75	2.114	Up
128439	SNHG11	small nucleolar RNA host gene 11	1.044	1.567	Up
9935	MAFB	MAF bZIP transcription factor B	3.432	18.834	Up
5335	PLCG1	phospholipase C gamma 1	0.772	1.565	Up
23051	ZHX3	zinc fingers and homeoboxes 3	0.631	2.074	Up
84181	CHD6	chromodomain helicase DNA binding protein 6	0.93	2.322	Up
51526	OSER1	oxidative stress responsive serine rich 1	0.578	1.659	Up
1.01E+08	OSER1-DT	OSER1 divergent transcript	2.08	5.073	Up
128486	FITM2	fat storage inducing transmembrane protein 2	0.96	2.055	Up
6789	STK4	serine/threonine kinase 4	0.608	3.749	Up
63935	PCIF1	phosphorylated CTD interacting factor 1	0.482	3.061	Up
57580	PREX1	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1	0.917	3.747	Up
441951	ZFAS1	ZNFX1 antisense RNA 1	0.952	2.692	Up
1.01E+08	PELATON	plaque enriched lncRNA in atherosclerotic and inflammatory bowel macrophage regulation	3.147	5.462	Up
116151	FAM210B	family with sequence similarity 210 member B	1.253	5.696	Up
81030	ZBP1	Z-DNA binding protein 1	1.846	4.946	Up
1.05E+08	NKILA	NF-kappaB interacting lncRNA	1.019	1.476	Up
128611	ZNF831	zinc finger protein 831	1.696	5.142	Up
1908	EDN3	endothelin 3	4.828	1.904	Up
63939	FAM217B	family with sequence similarity 217 member B	0.859	6.405	Up
5509	PPP1R3D	protein phosphatase 1 regulatory subunit 3D	0.939	4.407	Up
149986	LSM14B	LSM family member 14B	0.372	1.822	Up
9885	OSBPL2	oxysterol binding protein like 2	0.466	2.455	Up
1.02E+08	SLCO4A1-AS2	SLCO4A1 antisense RNA 2	1.067	3.263	Up
10732	TCFL5	transcription factor like 5	0.527	1.983	Up
1.01E+08	MHENCR	melanoma highly expressed competing endogenous lncRNA for miR-425 and miR-489	2.207	23.309	Up
50861	STMN3	stathmin 3	1.203	5.25	Up
54923	LIME1	Lck interacting transmembrane adaptor 1	1.883	9.302	Up
56731	SLC2A4RG	SLC2A4 regulator	0.688	1.956	Up
80331	DNAJC5	DnaJ heat shock protein family (Hsp40) member C5	0.406	1.342	Up
6919	TCEA2	transcription elongation factor A2	0.422	2.551	Up
4987	OPRL1	opioid related nociceptin receptor 1	1.41	2.127	Up

55251	PCMTD2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	1.467	16.036	Up
29761	USP25	ubiquitin specific peptidase 25	0.627	5.329	Up
351	APP	amyloid beta precursor protein	0.498	2.198	Up
56911	MAP3K7CL	MAP3K7 C-terminal like	1.011	1.32	Up
54067	C21orf62-AS1	C21orf62 antisense RNA 1	1.523	3.193	Up
3455	IFNAR2	interferon alpha and beta receptor subunit 2	0.827	8.113	Up
1.01E+08	LINC00649	long intergenic non-protein coding RNA 649	1.163	1.919	Up
1.02E+08	LOC101928126	uncharacterized LOC101928126	1.425	2.07	Up
23515	MORC3	MORC family CW-type zinc finger 3	0.395	1.662	Up
7267	TTC3	tetratricopeptide repeat domain 3	1.13	7.328	Up
1.01E+08	TTC3-AS1	TTC3 antisense RNA 1	1.151	4.812	Up
1859	DYRK1A	dual specificity tyrosine phosphorylation regulated kinase 1A	0.585	3.172	Up
54014	BRWD1	bromodomain and WD repeat domain containing 1	0.716	2.518	Up
4600	MX2	MX dynamin like GTPase 2	1.022	2.081	Up
89766	UMODL1	uromodulin like 1	3.658	1.463	Up
9619	ABCG1	ATP binding cassette subfamily G member 1	1.334	2.165	Up
8209	GATD3	glutamine amidotransferase class 1 domain containing 3	0.61	1.34	Up
3689	ITGB2	integrin subunit beta 2	0.667	3.61	Up
642852	LINC00205	long intergenic non-protein coding RNA 205	1.243	3.296	Up
80781	COL18A1	collagen type XVIII alpha 1 chain	1.028	1.804	Up
54058	C21orf58	chromosome 21 open reading frame 58	1.121	1.641	Up
6285	S100B	S100 calcium binding protein B	2.352	2.098	Up
3275	PRMT2	protein arginine methyltransferase 2	0.865	7.571	Up
23765	IL17RA	interleukin 17 receptor A	1.292	5.016	Up
27439	TMEM121B	transmembrane protein 121B	2.415	1.639	Up
51816	ADA2	adenosine deaminase 2	2.043	4.085	Up
200298	LINC00528	long intergenic non-protein coding RNA 528	0.961	2.42	Up
728229	TMEM191B	transmembrane protein 191B	1.276	1.614	Up
85376	RIMBP3	RIMS binding protein 3	2.499	14.786	Up
9993	DGCR2	DiGeorge syndrome critical region gene 2	0.705	7.216	Up
128977	C22orf39	chromosome 22 open reading frame 39	0.856	4.403	Up
79680	RTL10	retrotransposon Gag like 10	0.701	2.02	Up
65078	RTN4R	reticulon 4 receptor	1.514	3.44	Up
7625	ZNF74	zinc finger protein 74	0.605	1.51	Up
91179	SCARF2	scavenger receptor class F member 2	1.285	1.46	Up
84861	KLHL22	kelch like family member 22	0.506	1.417	Up
51586	MED15	mediator complex subunit 15	0.944	4.078	Up
84222	TMEM191A	transmembrane protein 191A (pseudogene)	1.219	3.257	Up
400892	BCRP2	BCR pseudogene 2	1.527	2.379	Up
440804	RIMBP3B	RIMS binding protein 3B	2.293	12.605	Up
645426	TMEM191C	transmembrane protein 191C	1.034	1.739	Up
150221	RIMBP3C	RIMS binding protein 3C	2.24	13.235	Up
29799	YPEL1	yippee like 1	0.975	2.982	Up
28804	IGLV3-9	immunoglobulin lambda variable 3-9	4.181	1.503	Up
4320	MMP11	matrix metallopeptidase 11	1.125	1.734	Up
66035	SLC2A11	solute carrier family 2 member 11	1.06	2.013	Up
135	ADORA2A	adenosine A2a receptor	0.636	2.15	Up

129049	SGSM1	small G protein signaling modulator 1	1.467	1.84	Up
89781	HPS4	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2	0.419	1.842	Up
1.01E+08	TFIP11-DT	TFIP11 divergent transcript	1.261	2.204	Up
1.1E+08	LOC110091768	uncharacterized LOC110091768	2.893	2.239	Up
4330	MN1	MN1 proto-oncogene, transcriptional regulator	1.527	1.755	Up
284900	TTC28-AS1	TTC28 antisense RNA 1	1.195	5.861	Up
11200	CHEK2	checkpoint kinase 2	0.543	1.482	Up
10634	GAS2L1	growth arrest specific 2 like 1	0.872	1.323	Up
8897	MTMR3	myotubularin related protein 3	0.519	2.23	Up
652968	CASTOR1	cytosolic arginine sensor for mTORC1 subunit 1	0.719	1.526	Up
83874	TBC1D10A	TBC1 domain family member 10A	0.867	4.714	Up
23541	SEC14L2	SEC14 like lipid binding 2	0.708	2.292	Up
9514	GAL3ST1	galactose-3-O-sulfotransferase 1	2.169	2.675	Up
1.08E+08	LOC107985544	uncharacterized LOC107985544	1.26	3.444	Up
3985	LIMK2	LIM domain kinase 2	1.175	11.577	Up
113791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	1.651	13.723	Up
23598	PATZ1	POZ/BTB and AT hook containing zinc finger 1	0.842	12.15	Up
1.02E+08	PIK3IP1-DT	PIK3IP1 divergent transcript	2.201	1.567	Up
54944	LINC01521	long intergenic non-protein coding RNA 1521	1.502	1.596	Up
10043	TOM1	target of myb1 membrane trafficking protein	0.639	2.727	Up
27128	CYTH4	cytohesin 4	1.162	6.046	Up
1.05E+08	LOC105373024	uncharacterized LOC105373024	1.243	3.228	Up
114794	ELFN2	extracellular leucine rich repeat and fibronectin type III domain containing 2	2.091	4.136	Up
10521	DDX17	DEAD-box helicase 17	0.534	1.597	Up
25776	CBY1	chibby family member 1, beta catenin antagonist	0.954	3.78	Up
9567	GTPBP1	GTP binding protein 1	0.467	4.892	Up
25777	SUN2	Sad1 and UNC84 domain containing 2	1.505	17.537	Up
23467	NPTXR	neuronal pentraxin receptor	0.785	1.641	Up
23492	CBX7	chromobox 7	0.852	7.464	Up
5155	PDGFB	platelet derived growth factor subunit B	1.941	2.978	Up
10454	TAB1	TGF-beta activated kinase 1 (MAP3K7) binding protein 1	0.582	2.379	Up
8911	CACNA1I	calcium voltage-gated channel subunit alpha1 I	1.773	14.83	Up
23112	TNRC6B	trinucleotide repeat containing adaptor 6B	0.78	2.084	Up
57591	MRTFA	myocardin related transcription factor A	0.62	3.057	Up
7008	TEF	TEF transcription factor, PAR bZIP family member	0.574	2.907	Up
150365	MEI1	meiotic double-stranded break formation protein 1	0.683	2.301	Up
1.01E+08	MIR378I	microRNA 378i	1.469	2.049	Up
1E+08	NDUFA6-DT	NDUFA6 divergent transcript	0.798	2.516	Up
1.03E+08	LOC102723722	uncharacterized LOC102723722	1.075	2.033	Up
11252	PACSIN2	protein kinase C and casein kinase substrate in neurons 2	0.53	3.529	Up
25809	TTLL1	TTL family tubulin polyglutamylase complex subunit L1	0.953	4.332	Up
64781	CERK	ceramide kinase	0.836	7.076	Up
1.05E+08	LOC105373077	uncharacterized LOC105373077	1.273	1.917	Up

25771	TBC1D22A	TBC1 domain family member 22A	0.324	2.029	Up
6305	SBF1	SET binding factor 1	0.557	1.37	Up
286530	P2RY8	P2Y receptor family member 8	0.914	2.557	Up
1.02E+08	LOC101928092	uncharacterized LOC101928092	1.457	1.319	Up
729162	FAM239B	zinc finger protein 839 pseudogene	0.571	1.401	Up
6907	TBL1X	transducin beta like 1 X-linked	0.864	3.118	Up
51311	TLR8	toll like receptor 8	1.55	1.314	Up
170082	TCEANC	transcription elongation factor A N-terminal and central domain containing	0.57	1.738	Up
6399	TRAPPC2	trafficking protein particle complex subunit 2	0.449	2.244	Up
57393	CLTRN	collectrin, amino acid transport regulator	1.696	1.86	Up
1.14E+08	CA5BP1-CA5B	CA5BP1-CA5B readthrough	0.77	2.093	Up
11238	CA5B	carbonic anhydrase 5B	0.903	2.903	Up
9185	REPS2	RALBP1 associated Eps domain containing 2	2.098	2.776	Up
6322	SCML1	Scm polycomb group protein like 1	1.292	3.081	Up
10742	RAI2	retinoic acid induced 2	1.56	1.31	Up
1536	CYBB	cytochrome b-245 beta chain	2.925	4.767	Up
7102	TSPAN7	tetraspanin 7	1.723	1.47	Up
1.05E+08	LOC105373177	uncharacterized LOC105373177	2.049	1.358	Up
55634	KRBOX4	KRAB box domain containing 4	0.898	4.358	Up
641339	ZNF674	zinc finger protein 674	0.605	1.424	Up
56548	CHST7	carbohydrate sulfotransferase 7	0.47	1.39	Up
5199	CFP	complement factor properdin	1.291	5.639	Up
7569	ZNF182	zinc finger protein 182	0.719	3.92	Up
11230	PRAF2	PRA1 domain family member 2	0.464	1.405	Up
1.05E+08	LOC105373195	uncharacterized LOC105373195	1.742	1.458	Up
54954	FAM120C	family with sequence similarity 120C	0.995	2.852	Up
2245	FGD1	FYVE, RhoGEF and PH domain containing 1	0.752	3.426	Up
158880	USP51	ubiquitin specific peptidase 51	0.676	1.573	Up
7789	ZXDA	zinc finger X-linked duplicated A	0.501	1.912	Up
92249	LINC01278	long intergenic non-protein coding RNA 1278	0.688	4.357	Up
23229	ARHGEF9	Cdc42 guanine nucleotide exchange factor 9	0.92	9.286	Up
55906	ZC4H2	zinc finger C4H2-type containing	0.586	2.295	Up
340554	ZC3H12B	zinc finger CCCH-type containing 12B	0.893	2.626	Up
1.08E+08	LOC107985679		2.32	3.536	Up
3476	IGBP1	immunoglobulin binding protein 1	1.071	3.715	Up
4303	FOXO4	forkhead box O4	0.723	1.995	Up
9203	ZMYM3	zinc finger MYM-type containing 3	0.692	5.045	Up
1.05E+08	LOC105373247	uncharacterized LOC105373247	2.167	2.406	Up
6872	TAF1	TATA-box binding protein associated factor 1	0.491	1.546	Up
8473	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase	0.606	2.691	Up
93953	GCNA	germ cell nuclear acidic peptidase	1.095	1.326	Up
441501	LINC00891	long intergenic non-protein coding RNA 891	2.483	2.441	Up
1E+08	LOC100132741	uncharacterized LOC100132741	2.871	2.932	Up
340527	NHSL2	NHS like 2	1.946	6.672	Up

286495	TTC3P1	tetratricopeptide repeat domain 3 pseudogene 1	0.742	1.614	Up
57692	MAGEE1	MAGE family member E1	0.747	1.741	Up
538	ATP7A	ATPase copper transporting alpha	0.531	2.61	Up
27334	P2RY10	P2Y receptor family member 10	0.821	1.889	Up
1.05E+08	LOC105373283		1.581	1.45	Up
6451	SH3BGRL	SH3 domain binding glutamate rich protein like	0.85	3.197	Up
4675	NAP1L3	nucleosome assembly protein 1 like 3	0.657	2.648	Up
7105	TSPAN6	tetraspanin 6	0.72	1.375	Up
84460	ZMAT1	zinc finger matrin-type 1	1.022	1.507	Up
9737	GPRASP1	G protein-coupled receptor associated sorting protein 1	1.047	2.721	Up
114928	GPRASP2	G protein-coupled receptor associated sorting protein 2	1.077	2.541	Up
56271	BEX4	brain expressed X-linked 4	0.551	1.534	Up
90843	TCEAL8	transcription elongation factor A like 8	0.917	2.15	Up
27018	BEX3	brain expressed X-linked 3	1.587	8.511	Up
9338	TCEAL1	transcription elongation factor A like 1	0.704	1.383	Up
401612	SLC25A53	solute carrier family 25 member 53	1.343	1.992	Up
644353	ZCCHC18	zinc finger CCHC-type containing 18	1.104	2.001	Up
79710	MORC4	MORC family CW-type zinc finger 4	0.796	2.922	Up
1831	TSC22D3	TSC22 domain family member 3	1.906	10.446	Up
11043	MID2	midline 2	0.411	1.543	Up
340547	VSIG1	V-set and immunoglobulin domain containing 1	2.789	19.866	Up
5063	PAK3	p21 (RAC1) activated kinase 3	0.74	1.57	Up
154796	AMOT	angiomotin	1.091	1.424	Up
139818	DOCK11	dedicator of cytokinesis 11	0.861	4.192	Up
3597	IL13RA1	interleukin 13 receptor subunit alpha 1	1.728	2.089	Up
79836	LONRF3	LON peptidase N-terminal domain and ring finger 3	0.717	3.357	Up
23157	SEPTIN6	septin 6	0.58	2.444	Up
347454	SOWAHD	sosondowah ankyrin repeat domain family member D	1.711	1.6	Up
7737	RNF113A	ring finger protein 113A	0.539	2.055	Up
8450	CUL4B	cullin 4B	1.053	5.789	Up
55796	MBNL3	muscleblind like splicing regulator 3	1	2.435	Up
7626	ZNF75D	zinc finger protein 75D	0.798	2.075	Up
2332	FMR1	fragile X messenger ribonucleoprotein 1	0.471	1.498	Up
84548	TMEM185A	transmembrane protein 185A	0.51	1.807	Up
7739	ZNF185	zinc finger protein 185 with LIM domain	1.727	7.667	Up
11219	TREX2	three prime repair exonuclease 2	1.679	2.519	Up
5973	RENBP	renin binding protein	1.089	4.964	Up
1.01E+08	HCFC1-AS1	HCFC1 antisense RNA 1	3.049	1.697	Up
8269	TMEM187	transmembrane protein 187	1.052	4.445	Up
4204	MECP2	methyl-CpG binding protein 2	0.706	2.588	Up
8277	TKTL1	transketolase like 1	3.402	7.365	Up
6901	TAFAZZIN	tafazzin, phospholipid-lysophospholipid transacylase	0.286	1.372	Up
537	ATP6AP1	ATPase H+ transporting accessory protein 1	0.255	1.597	Up
8263	F8A1	coagulation factor VIII associated 1	0.456	1.614	Up
1E+08	CMC4	C-X9-C motif containing 4	0.982	3.521	Up
4515	MTCP1	mature T cell proliferation 1	0.689	2.223	Up
3581	IL9R	interleukin 9 receptor	1.5	5.51	Up
4573	TRNR	tRNA-Arg	1.767	1.761	Up
4571	TRNP	tRNA-Pro	1.29	1.734	Up

Table s4 TB-PE vs Activat_TB-PE

GeneID	Symbol	Description	log2(fold change)	#NAME?	Set
148398	SAMD11	sterile alpha motif domain containing 11	-1.004	4.39	Down
26155	NOC2L	NOC2 like nucleolar associated transcriptional repressor	-1.187	9.748	Down
57801	HES4	hes family bHLH transcription factor 4	-5.84	2.906	Down
375790	AGRN	agrin	-1.55	2.759	Down
1E+08	LOC100288175	uncharacterized LOC100288175	-2.897	7.409	Down
1.05E+08	LOC105378948	uncharacterized LOC105378948	-2.058	4.615	Down
54991	C1orf159	chromosome 1 open reading frame 159	-0.499	1.37	Down
8784	TNFRSF18	TNF receptor superfamily member 18	-3.856	15.832	Down
7293	TNFRSF4	TNF receptor superfamily member 4	-5.203	7.634	Down
51150	SDF4	stromal cell derived factor 4	-0.667	2.958	Down
54973	INTS11	integrator complex subunit 11	-0.527	2.536	Down
54998	AURKAIP1	aurora kinase A interacting protein 1	-0.605	1.731	Down
55052	MRPL20	mitochondrial ribosomal protein L20	-0.952	3.984	Down
219293	ATAD3C	ATPase family AAA domain containing 3C	-1.218	4.809	Down
83858	ATAD3B	ATPase family AAA domain containing 3B	-1.681	4.567	Down
55210	ATAD3A	ATPase family AAA domain containing 3A	-1.635	9.144	Down
2782	GNB1	G protein subunit beta 1	-0.452	3.504	Down
339456	TMEM52	transmembrane protein 52	-2.478	1.975	Down
115110	TNFRSF14-AS1	TNFRSF14 antisense RNA 1	-0.778	3.277	Down
8764	TNFRSF14	TNF receptor superfamily member 14	-0.452	2.237	Down
127281	PRXL2B	peroxiredoxin like 2B	-0.826	5.12	Down
79258	MMEL1	membrane metalloendopeptidase like 1	-0.739	1.988	Down
388591	RNF207	ring finger protein 207	-1.713	2.363	Down

11332	ACOT7	acyl-CoA thioesterase 7	-2.749	21.395	Down
55735	DNAJC11	DnaJ heat shock protein family (Hsp40) member C11	-0.8	3.891	Down
3604	TNFRSF9	TNF receptor superfamily member 9	-4.584	6.855	Down
11315	PARK7	Parkinsonism associated deglycase	-1.065	4.293	Down
54206	ERRFI1	ERBB receptor feedback inhibitor 1	-1.08	1.754	Down
2023	ENO1	enolase 1	-1.397	2.644	Down
1.02E+08	MIR6728	microRNA 6728	-1.869	2.139	Down
84275	SLC25A33	solute carrier family 25 member 33	-0.999	3.552	Down
54897	CASZ1	castor zinc finger 1	-1.452	2.553	Down
23435	TARDBP	TAR DNA binding protein	-0.481	1.797	Down
6723	SRM	spermidine synthase	-1.529	12.493	Down
26270	FBXO6	F-box protein 6	-1.473	2.039	Down
10459	MAD2L2	mitotic arrest deficient 2 like 2	-0.679	2.746	Down
5351	PLOD1	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	-1.092	2.164	Down
9927	MFN2	mitofusin 2	-0.439	1.5	Down
943	TNFRSF8	TNF receptor superfamily member 8	-5.448	5.664	Down
79180	EFHD2	EF-hand domain family member D2	-0.432	1.413	Down
79814	AGMAT	agmatinase	-0.787	1.548	Down
26099	SZRD1	SUZ RNA binding domain containing 1	-0.956	7.725	Down
374955	SPATA21	spermatogenesis associated 21	-0.912	6.687	Down
6390	SDHB	succinate dehydrogenase complex iron sulfur subunit B	-0.72	2.286	Down
51154	MRTO4	MRT4 homolog, ribosome maturation factor	-1.488	6.644	Down
10236	HNRNPR	heterogeneous nuclear ribonucleoprotein R	-0.772	11.769	Down
1.05E+08	LOC105376860	uncharacterized LOC105376860	-0.837	3.696	Down
11313	LYPLA2	lysophospholipase 2	-0.767	3.863	Down
2582	GALE	UDP-galactose-4-epimerase	-1.858	9.615	Down
10772	SRSF10	serine and arginine rich splicing factor 10	-0.809	6.519	Down

163702	IFNLR1	interferon lambda receptor 1	-0.86	1.66	Down
25932	CLIC4	chloride intracellular channel 4	-1.667	3.124	Down
1.05E+08	RUNX3-AS1	RUNX3 antisense RNA 1	-1.012	1.823	Down
51042	ZNF593	zinc finger protein 593	-1.66	9.381	Down
64793	CEP85	centrosomal protein 85	-0.525	2.674	Down
79947	DHDDS	dehydrodolichyl diphosphate synthase subunit	-0.709	6.434	Down
84243	ZDHHC18	zinc finger DHHC-type palmitoyltransferase 18	-0.877	9.786	Down
10726	NUDC	nuclear distribution C, dynein complex regulator	-0.806	7.916	Down
83667	SESN2	sestrin 2	-2.851	13.046	Down
1104	RCC1	regulator of chromosome condensation 1	-0.505	1.968	Down
54952	TRNAU1AP	tRNA selenocysteine 1 associated protein 1	-0.917	3.899	Down
51102	MECR	mitochondrial trans-2-enoyl-CoA reductase	-1.034	6.424	Down
576	ADGRB2	adhesion G protein-coupled receptor B2	-1.894	1.45	Down
23633	KPNA6	karyopherin subunit alpha 6	-0.558	3.129	Down
200081	TXLNA	taxilin alpha	-0.628	1.601	Down
3065	HDAC1	histone deacetylase 1	-0.632	4.643	Down
5928	RBBP4	RB binding protein 4, chromatin remodeling factor	-0.422	1.665	Down
81493	SYNC	syncoilin, intermediate filament protein	-0.437	1.69	Down
57648	KIAA1522	KIAA1522	-0.922	1.749	Down
8565	YARS1	tyrosyl-tRNA synthetase 1	-1.071	3.666	Down
127544	RNF19B	ring finger protein 19B	-0.64	1.305	Down
204	AK2	adenylate kinase 2	-1.071	5.555	Down
113444	SMIM12	small integral membrane protein 12	-0.643	2.212	Down
6421	SFPQ	splicing factor proline and glutamine rich	-1.508	9.868	Down
5690	PSMB2	proteasome 20S subunit beta 2	-1.491	18.29	Down
127703	C1orf216	chromosome 1 open reading frame 216	-1.58	12.793	Down
63967	CLSPN	claspin	-2.413	3.197	Down

83931	STK40	serine/threonine kinase 40	-0.932	3.778	Down
64960	MRPS15	mitochondrial ribosomal protein S15	-0.877	2.514	Down
80149	ZC3H12A	zinc finger CCCH-type containing 12A	-2.772	6.68	Down
29889	GNL2	G protein nucleolar 2	-1.089	9.213	Down
79693	YRDC	yrdC N6-threonylcarbamoyltransferase domain containing	-1.69	12.711	Down
127687	C1orf122	chromosome 1 open reading frame 122	-0.638	1.571	Down
4520	MTF1	metal regulatory transcription factor 1	-0.593	2.828	Down
10946	SF3A3	splicing factor 3a subunit 3	-0.441	1.472	Down
51118	UTP11	UTP11 small subunit processome component	-0.991	4.481	Down
84879	MFSD2A	MFSD2 lysolipid transporter A, lysophospholipid	-3.155	8.229	Down
10487	CAP1	cyclase associated actin cytoskeleton regulatory protein 1	-0.612	2.842	Down
10269	ZMPSTE24	zinc metallopeptidase STE24	-0.965	3.794	Down
1298	COL9A2	collagen type IX alpha 2 chain	-1.43	2.837	Down
64789	EXO5	exonuclease 5	-0.726	2.318	Down
1503	CTPS1	CTP synthase 1	-2.324	18.128	Down
59269	HIVEP3	HIVEP zinc finger 3	-1.694	4.165	Down
284716	RIMKLA	ribosomal modification protein rimK like family member A	-1.984	1.83	Down
10465	PPIH	peptidylprolyl isomerase H	-0.997	4.304	Down
10969	EBNA1BP2	EBNA1 binding protein 2	-1.651	11.915	Down
991	CDC20	cell division cycle 20	-3.131	12.1	Down
64834	ELOVL1	ELOVL fatty acid elongase 1	-0.595	4.299	Down
112950	MED8	mediator complex subunit 8	-0.445	1.39	Down
1802	DPH2	diphthamide biosynthesis 2	-1.204	7.629	Down
533	ATP6V0B	ATPase H+ transporting V0 subunit b	-0.79	3.942	Down
8704	B4GALT2	beta-1,4-galactosyltransferase 2	-2.114	5.118	Down
6536	SLC6A9	solute carrier family 6 member 9	-5.774	19.758	Down
79033	ERI3	ERI1 exoribonuclease family member 3	-0.492	1.612	Down

11004	KIF2C	kinesin family member 2C	-1.161	2.083	Down
8891	EIF2B3	eukaryotic translation initiation factor 2B subunit gamma	-1.594	14.074	Down
84842	HPDL	4-hydroxyphenylpyruvate dioxygenase like	-2.644	9.801	Down
114034	TOE1	target of EGR1, exonuclease	-0.633	2.348	Down
25974	MMACHC	metabolism of cobalamin associated C	-1.503	10.828	Down
5052	PRDX1	peroxiredoxin 1	-1.698	10.35	Down
10327	AKR1A1	aldo-keto reductase family 1 member A1	-1.171	4.051	Down
4678	NASP	nuclear autoantigenic sperm protein	-0.512	2.595	Down
55624	POMGNT1	protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)	-0.895	6.302	Down
8438	RAD54L	RAD54 like	-1.117	3.879	Down
10489	LRRC41	leucine rich repeat containing 41	-0.442	1.989	Down
387338	NSUN4	NOP2/Sun RNA methyltransferase 4	-0.669	2.656	Down
6491	STIL	STIL centriolar assembly protein	-0.939	2.326	Down
4998	ORC1	origin recognition complex subunit 1	-1.885	5.35	Down
65260	COA7	cytochrome c oxidase assembly factor 7	-1.059	6.513	Down
4116	MAGOH	mago homolog, exon junction complex subunit	-0.955	7.299	Down
7804	LRP8	LDL receptor related protein 8	-1.38	3.717	Down
1.05E+08	LOC105378728	uncharacterized LOC105378728	-1.559	1.426	Down
1.05E+08	LOC105378726	uncharacterized LOC105378726	-2.277	1.656	Down
1.05E+08	LRP8-DT	LRP8 divergent transcript	-1.894	1.332	Down
51668	HSPB11	heat shock protein family B (small) member 11	-0.57	1.515	Down
115353	LRRC42	leucine rich repeat containing 42	-1.035	9.604	Down
51253	MRPL37	mitochondrial ribosomal protein L37	-0.721	2.635	Down
1.01E+08	MROH7-TTC4	MROH7-TTC4 readthrough (NMD candidate)	-0.617	4.025	Down
7268	TTC4	tetratricopeptide repeat domain 4	-0.625	4.507	Down
1718	DHCR24	24-dehydrocholesterol reductase	-3.033	31.308	Down
1.08E+08	DHCR24-DT	DHCR24 divergent transcript	-4.559	1.81	Down

205	AK4	adenylate kinase 4	-2.132	1.609	Down
9829	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6	-0.788	2.153	Down
57708	MIER1	MIER1 transcriptional regulator	-0.568	4.692	Down
149233	IL23R	interleukin 23 receptor	-2.255	2.785	Down
3595	IL12RB2	interleukin 12 receptor subunit beta 2	-2.491	5.091	Down
1.05E+08	LOC105378779		-1.755	1.474	Down
26135	SERBP1	SERPINE1 mRNA binding protein 1	-0.64	2.465	Down
55631	LRRC40	leucine rich repeat containing 40	-0.513	1.636	Down
1E+08	ZRANB2-AS1	ZRANB2 antisense RNA 1	-0.935	4.319	Down
9406	ZRANB2	zinc finger RANBP2-type containing 2	-0.881	6.282	Down
1429	CRYZ	crystallin zeta	-0.706	1.483	Down
127253	TYW3	tRNA-yW synthesizing protein 3 homolog	-0.612	2.291	Down
5876	RABGGTB	Rab geranylgeranyltransferase subunit beta	-0.819	7.563	Down
91624	NEXN	nexilin F-actin binding protein	-1.316	7.422	Down
8880	FUBP1	far upstream element binding protein 1	-1.212	12.254	Down
10964	IFI44L	interferon induced protein 44 like	-2.424	1.502	Down
2787	GNG5	G protein subunit gamma 5	-0.498	1.487	Down
255231	MCOLN2	mucolipin TRP cation channel 2	-1.143	3.248	Down
8915	BCL10	BCL10 immune signaling adaptor	-0.365	1.804	Down
54680	ZNHIT6	zinc finger HIT-type containing 6	-0.529	1.767	Down
2633	GBP1	guanylate binding protein 1	-2.712	8.171	Down
2634	GBP2	guanylate binding protein 2	-1.319	6.366	Down
1.12E+08	LOC112268267	uncharacterized LOC112268267	-1.284	6.223	Down
388646	GBP7	guanylate binding protein 7	-2.248	2.626	Down
115361	GBP4	guanylate binding protein 4	-2.709	27.007	Down
115362	GBP5	guanylate binding protein 5	-3.018	10.04	Down
163351	GBP6	guanylate binding protein family member 6	-5.356	15.665	Down

400759	GBP1P1	guanylate binding protein 1 pseudogene 1	-2.583	4.783	Down
23507	LRRC8B	leucine rich repeat containing 8 VRAC subunit B	-0.637	3.107	Down
646817	SETSIP	SET like protein	-0.715	2.589	Down
11146	GLMN	glomulin, FKBP associated protein	-0.899	4.189	Down
2672	GFI1	growth factor independent 1 transcriptional repressor	-2.376	10.182	Down
7813	EVI5	ecotropic viral integration site 5	-1.42	5.157	Down
54874	FNBP1L	formin binding protein 1 like	-1.356	3.365	Down
2730	GCLM	glutamate-cysteine ligase modifier subunit	-1.302	15.64	Down
64645	MFSD14A	major facilitator superfamily domain containing 14A	-0.41	1.858	Down
148867	SLC30A7	solute carrier family 30 member 7	-0.508	2.775	Down
6884	TAF13	TATA-box binding protein associated factor 13	-0.971	4.432	Down
5686	PSMA5	proteasome 20S subunit alpha 5	-1.287	6.988	Down
127002	ATXN7L2	ataxin 7 like 2	-0.531	2.014	Down
2773	GNAI3	G protein subunit alpha i3	-0.671	3.843	Down
271	AMPD2	adenosine monophosphate deaminase 2	-0.408	1.659	Down
10542	LAMTOR5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-1.029	4.783	Down
79084	WDR77	WD repeat domain 77	-1.344	9.025	Down
5906	RAP1A	RAP1A, member of RAS oncogene family	-0.699	3.812	Down
1E+08	LINC01160	long intergenic non-protein coding RNA 1160	-3.617	4.997	Down
1.08E+08	LOC107985184	uncharacterized LOC107985184	-0.702	1.477	Down
11218	DDX20	DEAD-box helicase 20	-0.283	1.739	Down
6566	SLC16A1	solute carrier family 16 member 1	-1.222	5.508	Down
204851	HIPK1	homeodomain interacting protein kinase 1	-0.576	2.801	Down
10286	BCAS2	BCAS2 pre-mRNA processing factor	-0.691	3.337	Down
4893	NRAS	NRAS proto-oncogene, GTPase	-1.037	7.987	Down
81839	VANGL1	VANGL planar cell polarity protein 1	-1.029	5.635	Down
965	CD58	CD58 molecule	-0.502	1.532	Down

1.05E+08	LOC105378925	uncharacterized LOC105378925	-4.284	2.506	Down
3321	IGSF3	immunoglobulin superfamily member 3	-4.89	10.546	Down
914	CD2	CD2 molecule	-0.585	1.96	Down
5738	PTGFRN	prostaglandin F2 receptor inhibitor	-2.429	10.252	Down
10352	WARS2	tryptophanyl tRNA synthetase 2, mitochondrial	-0.798	4.481	Down
26227	PHGDH	phosphoglycerate dehydrogenase	-1.772	8.559	Down
4853	NOTCH2	notch receptor 2	-0.491	2.125	Down
653820	FAM72B	family with sequence similarity 72 member B	-2.028	1.613	Down
10401	PIAS3	protein inhibitor of activated STAT 3	-0.49	1.368	Down
9939	RBM8A	RNA binding motif protein 8A	-0.642	8.012	Down
1.05E+08	LIX1L-AS1	LIX1L antisense RNA 1	-1.206	13.723	Down
9557	CHD1L	chromodomain helicase DNA binding protein 1 like	-0.319	1.388	Down
171423	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1	-0.882	4.066	Down
2330	FMO5	flavin containing dimethylaniline monoxygenase 5	-0.809	2.493	Down
284561	LINC02806	long intergenic non-protein coding RNA 2806	-4.199	2.418	Down
644591	PPIAL4G	peptidylprolyl isomerase A like 4G	-1.015	1.379	Down
8349	H2BC21	H2B clustered histone 21	-0.834	1.985	Down
10262	SF3B4	splicing factor 3b subunit 4	-0.65	4.128	Down
56957	OTUD7B	OTU deubiquitinase 7B	-0.871	2.169	Down
81611	ANP32E	acidic nuclear phosphoprotein 32 family member E	-0.531	2.673	Down
9129	PRPF3	pre-mRNA processing factor 3	-0.965	3.278	Down
2029	ENSA	endosulfine alpha	-0.522	2.39	Down
8394	PIP5K1A	phosphatidylinositol-4-phosphate 5-kinase type 1 alpha	-0.682	5.644	Down
5710	PSMD4	proteasome 26S subunit ubiquitin receptor, non-ATPase 4	-0.535	1.773	Down
5993	RFX5	regulatory factor X5	-1.129	11.567	Down
5692	PSMB4	proteasome 20S subunit beta 4	-0.878	4.385	Down
1E+08	C2CD4D	C2 calcium dependent domain containing 4D	-1.326	2.984	Down

1E+08	C2CD4D-AS1	C2CD4D and THEM5 antisense RNA 1	-2.187	13.752	Down
284486	THEM5	thioesterase superfamily member 5	-1.468	2.466	Down
57115	PGLYRP4	peptidoglycan recognition protein 4	-5.533	3.201	Down
3608	ILF2	interleukin enhancer binding factor 2	-1.36	6.659	Down
7170	TPM3	tropomyosin 3	-0.69	4.144	Down
9898	UBAP2L	ubiquitin associated protein 2 like	-0.396	2.061	Down
10456	HAX1	HCLS1 associated protein X-1	-0.622	1.317	Down
1141	CHRNB2	cholinergic receptor nicotinic beta 2 subunit	-0.464	3.629	Down
103	ADAR	adenosine deaminase RNA specific	-0.481	2.248	Down
10654	PMVK	phosphomevalonate kinase	-0.807	3.437	Down
1163	CKS1B	CDC28 protein kinase regulatory subunit 1B	-0.867	1.696	Down
80308	FLAD1	flavin adenine dinucleotide synthetase 1	-0.897	5.555	Down
51043	ZBTB7B	zinc finger and BTB domain containing 7B	-0.509	2.273	Down
8751	ADAM15	ADAM metallopeptidase domain 15	-1.001	4.714	Down
4580	MTX1	metaxin 1	-0.691	3.656	Down
10067	SCAMP3	secretory carrier membrane protein 3	-0.676	3.517	Down
2224	FDPS	farnesyl diphosphate synthase	-1.064	4.18	Down
284618	RUSC1-AS1	RUSC1 antisense RNA 1	-0.937	3.526	Down
55154	MSTO1	misato mitochondrial distribution and morphology regulator 1	-0.492	1.426	Down
56893	UBQLN4	ubiquilin 4	-0.662	3.256	Down
4000	LMNA	lamin A/C	-1.827	4.827	Down
1.01E+08	PMF1-BGLAP	PMF1-BGLAP readthrough	-1.013	4.125	Down
11243	PMF1	polyamine modulated factor 1	-0.936	3.097	Down
7203	CCT3	chaperonin containing TCP1 subunit 3	-1.21	9.093	Down
10485	MIR9-1HG	MIR9-1 host gene	-3.044	3.861	Down
128240	NAXE	NAD(P)HX epimerase	-0.916	3.828	Down
54865	GPATCH4	G-patch domain containing 4 (gene/pseudogene)	-1.277	4.979	Down

79590	MRPL24	mitochondrial ribosomal protein L24	-0.896	2.724	Down
9047	SH2D2A	SH2 domain containing 2A	-1.209	4.539	Down
9447	AIM2	absent in melanoma 2	-1.771	3.993	Down
54935	DUSP23	dual specificity phosphatase 23	-0.812	2.165	Down
8407	TAGLN2	transgelin 2	-0.695	3.059	Down
6504	SLAMF1	signaling lymphocytic activation molecule family member 1	-1.339	8.559	Down
5202	PFDN2	prefoldin subunit 2	-1.173	7.195	Down
8703	B4GALT3	beta-1,4-galactosyltransferase 3	-0.477	1.822	Down
4720	NDUFS2	NADH:ubiquinone oxidoreductase core subunit S2	-0.567	4.382	Down
84134	TOMM40L	translocase of outer mitochondrial membrane 40 like	-1.418	5.755	Down
9970	NR1I3	nuclear receptor subfamily 1 group I member 3	-1.584	2.649	Down
1E+08	TRE-TTC4-2	tRNA-Glu (anticodon TTC) 4-2	-1.917	2.693	Down
7371	UCK2	uridine-cytidine kinase 2	-1.999	21.617	Down
1.01E+08	MIR3658	microRNA 3658	-2.114	3.804	Down
387597	ILDR2	immunoglobulin like domain containing receptor 2	-1.962	6.492	Down
261726	TIPRL	TOR signaling pathway regulator	-0.664	1.477	Down
6846	XCL2	X-C motif chemokine ligand 2	-1.426	2.425	Down
10560	SLC19A2	solute carrier family 19 member 2	-0.985	4.177	Down
22920	KIFAP3	kinesin associated protein 3	-0.894	3.29	Down
7151	TOP1P1	DNA topoisomerase I pseudogene 1	-0.773	1.4	Down
356	FASLG	Fas ligand	-1.528	4.911	Down
55157	DARS2	aspartyl-tRNA synthetase 2, mitochondrial	-0.513	2.854	Down
27101	CACYBP	calcyclin binding protein	-0.569	1.89	Down
84320	ACBD6	acyl-CoA binding domain containing 6	-0.55	2.79	Down
51278	IER5	immediate early response 5	-1.738	17.563	Down
6004	RGS16	regulator of G protein signaling 16	-3.797	17.608	Down
647070	DHX9-AS1	DHX9 antisense RNA 1	-0.759	3.715	Down

1660	DHX9	DExH-box helicase 9	-0.979	12.783	Down
116461	TSEN15	tRNA splicing endonuclease subunit 15	-1.342	7.17	Down
5996	RGS1	regulator of G protein signaling 1	-2.269	4.602	Down
1.08E+08	LOC107985241	uncharacterized LOC107985241	-2.669	1.461	Down
6003	RGS13	regulator of G protein signaling 13	-4	2.17	Down
51377	UCHL5	ubiquitin C-terminal hydrolase L5	-0.505	2.204	Down
1.02E+08	LOC101929160		-0.56	1.846	Down
79577	CDC73	cell division cycle 73	-0.568	3.266	Down
163486	DENND1B	DENN domain containing 1B	-0.571	1.574	Down
55765	INAVA	innate immunity activator	-3.907	4.034	Down
10440	TIMM17A	translocase of inner mitochondrial membrane 17A	-1.12	5.4	Down
5778	PTPN7	protein tyrosine phosphatase non-receptor type 7	-1.646	27.676	Down
29089	UBE2T	ubiquitin conjugating enzyme E2 T	-1.028	2.658	Down
7832	BTG2	BTG anti-proliferation factor 2	-0.885	3.412	Down
84919	PPP1R15B	protein phosphatase 1 regulatory subunit 15B	-0.617	2.215	Down
5287	PIK3C2B	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	-0.574	1.315	Down
1E+08	TRK-TTT3-1	tRNA-Lys (anticodon TTT) 3-1	-3.279	1.403	Down
9911	TMCC2	transmembrane and coiled-coil domain family 2	-1.267	1.913	Down
9641	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.931	3.231	Down
3586	IL10	interleukin 10	-4.648	18.145	Down
29949	IL19	interleukin 19	-4.186	8.026	Down
55432	YOD1	YOD1 deubiquitinase	-0.646	3.462	Down
7779	SLC30A1	solute carrier family 30 member 1	-1.227	7.206	Down
9926	LPGAT1	lysophosphatidylglycerol acyltransferase 1	-0.617	3.189	Down
25896	INTS7	integrator complex subunit 7	-0.986	6.246	Down
51514	DTL	denticleless E3 ubiquitin protein ligase homolog	-3.727	22.883	Down
55509	BATF3	basic leucine zipper ATF-like transcription factor 3	-3.851	8.136	Down

28982	FLVCR1	FLVCR heme transporter 1	-0.664	2.003	Down
51018	RRP15	ribosomal RNA processing 15 homolog	-0.822	3.506	Down
2058	EPRS1	glutamyl-prolyl-tRNA synthetase 1	-0.492	2.01	Down
10380	BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1	-0.511	1.598	Down
11221	DUSP10	dual specificity phosphatase 10	-1.555	3.984	Down
7159	TP53BP2	tumor protein p53 binding protein 2	-0.619	1.44	Down
6726	SRP9	signal recognition particle 9	-0.539	1.319	Down
163859	SDE2	SDE2 telomere maintenance homolog	-0.505	2.025	Down
5664	PSEN2	presenilin 2	-1.851	3.422	Down
339500	ZNF678	zinc finger protein 678	-0.929	5.131	Down
65094	JMJD4	jumonji domain containing 4	-0.454	1.836	Down
58480	RHOU	ras homolog family member U	-1.487	1.529	Down
58	ACTA1	actin alpha 1, skeletal muscle	-1.774	6.801	Down
9816	URB2	URB2 ribosome biogenesis homolog	-1.168	3.175	Down
83932	SPRTN	SprT-like N-terminal domain	-0.463	1.324	Down
3775	KCNK1	potassium two pore domain channel subfamily K member 1	-2.69	2.095	Down
6894	TARBP1	TAR (HIV-1) RNA binding protein 1	-0.539	1.353	Down
1.01E+08	LINC01132	long intergenic non-protein coding RNA 1132	-7.235	6.432	Down
6905	TBCE	tubulin folding cofactor E	-0.534	1.525	Down
2786	GNG4	G protein subunit gamma 4	-2.661	3.137	Down
128178	EDARADD	EDAR associated death domain	-1.22	3.469	Down
55127	HEATR1	HEAT repeat containing 1	-0.533	2.051	Down
1E+08	LOC100130331	POTE ankyrin domain family, member F pseudogene	-1.535	1.862	Down
2271	FH	fumarate hydratase	-0.773	3.884	Down
9156	EXO1	exonuclease 1	-1.823	2.48	Down
51029	DESI2	desumoylating isopeptidase 2	-0.582	1.491	Down
116228	COX20	cytochrome c oxidase assembly factor COX20	-0.555	2.319	Down

3192	HNRNPU	heterogeneous nuclear ribonucleoprotein U	-0.601	1.81	Down
1.07E+08	SNORA100	small nucleolar RNA, H/ACA box 100	-0.573	1.36	Down
64216	TFB2M	transcription factor B2, mitochondrial	-0.662	2.933	Down
51097	SCCPDH	saccharopine dehydrogenase (putative)	-1.615	4.67	Down
7260	EIPR1	EARP complex and GARP complex interacting protein 1	-0.682	2.58	Down
386597	GRASLND	glycosaminoglycan regulatory associated long non-coding RNA	-1.65	9.902	Down
1.01E+08	LOC100506274	uncharacterized LOC100506274	-2.152	1.412	Down
1.02E+08	LOC101929510	uncharacterized LOC101929510	-1.725	3.129	Down
1.02E+08	LINC01871	long intergenic non-protein coding RNA 1871	-1.602	4.298	Down
3398	ID2	inhibitor of DNA binding 2	-2.163	6.844	Down
9270	ITGB1BP1	integrin subunit beta 1 binding protein 1	-0.593	4.356	Down
51692	CPSF3	cleavage and polyadenylation specific factor 3	-0.513	2.002	Down
285148	IAH1	isoamyl acetate hydrolyzing esterase 1 (putative)	-0.424	1.452	Down
10971	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta	-1.49	23.659	Down
9014	TAF1B	TATA-box binding protein associated factor, RNA polymerase I subunit B	-0.712	1.736	Down
29841	GRHL1	grainyhead like transcription factor 1	-1.807	1.507	Down
6241	RRM2	ribonucleotide reductase regulatory subunit M2	-2.687	10.563	Down
4953	ODC1	ornithine decarboxylase 1	-1.642	9.052	Down
79954	NOL10	nucleolar protein 10	-0.918	5.975	Down
245973	ATP6V1C2	ATPase H+ transporting V1 subunit C2	-1.019	3.388	Down
10130	PDIA6	protein disulfide isomerase family A member 6	-1.082	4.639	Down
1876	E2F6	E2F transcription factor 6	-0.558	2.894	Down
1653	DDX1	DEAD-box helicase 1	-0.732	3.039	Down
348654	GEN1	GEN1 Holliday junction 5' flap endonuclease	-0.701	4.095	Down
60526	LDAH	lipid droplet associated hydrolase	-0.67	1.605	Down
51639	SF3B6	splicing factor 3b subunit 6	-0.638	1.969	Down
79172	CENPO	centromere protein O	-0.601	3.441	Down

109	ADCY3	adenylate cyclase 3	-0.996	3.269	Down
10890	RAB10	RAB10, member RAS oncogene family	-0.758	3.052	Down
1.05E+08	LOC105374333	uncharacterized LOC105374333	-1.626	1.95	Down
85465	SELENOI	selenoprotein I	-1.594	19.024	Down
9381	OTOF	otoferlin	-1.575	1.415	Down
54867	TMEM214	transmembrane protein 214	-0.546	2.729	Down
10113	PREB	prolactin regulatory element binding	-0.491	1.807	Down
8884	SLC5A6	solute carrier family 5 member 6	-1.244	7.321	Down
790	CAD	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	-0.785	3.564	Down
8890	EIF2B4	eukaryotic translation initiation factor 2B subunit delta	-0.478	2.403	Down
29959	NRBP1	nuclear receptor binding protein 1	-0.386	1.718	Down
84226	C2orf16	chromosome 2 open reading frame 16	-2.488	3.858	Down
11321	GPN1	GPN-loop GTPase 1	-0.658	2.01	Down
9913	SUPT7L	SPT7 like, STAGA complex subunit gamma	-0.5	3.769	Down
22950	SLC4A1AP	solute carrier family 4 member 1 adaptor protein	-0.433	2.744	Down
64080	RBKS	ribokinase	-1.663	11.712	Down
9577	BABAM2	BRISC and BRCA1 A complex member 2	-0.468	1.479	Down
2355	FOSL2	FOS like 2, AP-1 transcription factor subunit	-1.139	2.755	Down
23160	WDR43	WD repeat domain 43	-0.782	7.131	Down
51072	MEMO1	mediator of cell motility 1	-1.116	8.647	Down
55622	TTC27	tetratricopeptide repeat domain 27	-1.4	10.506	Down
25780	RASGRP3	RAS guanyl releasing protein 3	-2.553	8.531	Down
25940	FAM98A	family with sequence similarity 98 member A	-0.995	6.352	Down
92906	HNRNPLL	heterogeneous nuclear ribonucleoprotein L like	-0.791	6.409	Down
130589	GALM	galactose mutarotase	-0.888	3.185	Down
6432	SRSF7	serine and arginine rich splicing factor 7	-1.683	22.345	Down
63892	THADA	THADA armadillo repeat containing	-0.361	1.329	Down

2034	EPAS1	endothelial PAS domain protein 1	-3.186	10.782	Down
57217	TTC7A	tetratricopeptide repeat domain 7A	-1.298	8.446	Down
494143	CHAC2	ChaC glutathione specific gamma-glutamylcyclotransferase 2	-2.006	12.767	Down
87178	PNPT1	polyribonucleotide nucleotidyltransferase 1	-1.624	22.33	Down
7444	VRK2	VRK serine/threonine kinase 2	-0.574	3.07	Down
55120	FANCL	FA complementation group L	-0.636	2.253	Down
5966	REL	REL proto-oncogene, NF-kB subunit	-1.393	3.193	Down
7514	XPO1	exportin 1	-1.049	9.11	Down
10575	CCT4	chaperonin containing TCP1 subunit 4	-0.727	1.719	Down
150684	COMMD1	copper metabolism domain containing 1	-0.693	2.077	Down
4190	MDH1	malate dehydrogenase 1	-0.598	1.493	Down
57162	PELI1	pellino E3 ubiquitin protein ligase 1	-1.24	3.822	Down
29094	LGALSL	galectin like	-1.826	2.271	Down
10097	ACTR2	actin related protein 2	-0.41	1.919	Down
200734	SPRED2	sprouty related EVH1 domain containing 2	-1.527	1.341	Down
56902	PNO1	partner of NOB1 homolog	-1.392	6.553	Down
200558	APLF	aprataxin and PNKP like factor	-0.84	1.804	Down
2673	GFPT1	glutamine--fructose-6-phosphate transaminase 1	-0.653	4.307	Down
11017	SNRNP27	small nuclear ribonucleoprotein U4/U6.U5 subunit 27	-0.64	5.744	Down
7072	TIA1	TIA1 cytotoxic granule associated RNA binding protein	-1.055	7.183	Down
6637	SNRPG	small nuclear ribonucleoprotein polypeptide G	-1.489	8.914	Down
84908	FAM136A	family with sequence similarity 136 member A	-0.567	1.659	Down
55577	NAGK	N-acetylglucosamine kinase	-0.714	2.52	Down
10322	SMYD5	SMYD family member 5	-0.393	1.324	Down
10574	CCT7	chaperonin containing TCP1 subunit 7	-1.246	5.946	Down
1961	EGR4	early growth response 4	-7.329	6.012	Down
388962	BOLA3	bolA family member 3	-1.542	6.771	Down

10797	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	-2.058	6.619	Down
57835	SLC4A5	solute carrier family 4 member 5	-1.062	1.78	Down
550	AUP1	AUP1 lipid droplet regulating VLDL assembly factor	-0.525	2.005	Down
27429	HTRA2	HtrA serine peptidase 2	-0.753	3.579	Down
9801	MRPL19	mitochondrial ribosomal protein L19	-0.929	6.995	Down
6936	GCFC2	GC-rich sequence DNA-binding factor 2	-0.496	4.503	Down
9168	TMSB10	thymosin beta 10	-0.806	1.53	Down
4144	MAT2A	methionine adenosyltransferase 2A	-0.953	4.1	Down
2677	GGCX	gamma-glutamyl carboxylase	-0.475	1.975	Down
51255	RNF181	ring finger protein 181	-0.761	1.712	Down
25885	POLR1A	RNA polymerase I subunit A	-0.877	2.603	Down
10989	IMMT	inner membrane mitochondrial protein	-0.864	3.197	Down
51318	MRPL35	mitochondrial ribosomal protein L35	-1.027	4.52	Down
1E+08	ANAPC1P1	ANAPC1 pseudogene 1	-0.713	1.585	Down
1.02E+08	LINC01943	long intergenic non-protein coding RNA 1943	-3.596	15.136	Down
112597	CYTOR	cytoskeleton regulator RNA	-1.546	5.576	Down
22934	RPIA	ribose 5-phosphate isomerase A	-0.846	4.765	Down
64969	MRPS5	mitochondrial ribosomal protein S5	-0.49	3.178	Down
150763	GPAT2	glycerol-3-phosphate acyltransferase 2, mitochondrial	-1.074	2.217	Down
1844	DUSP2	dual specificity phosphatase 2	-2.129	7.668	Down
56910	STARD7	StAR related lipid transfer domain containing 7	-0.611	3.015	Down
150771	ITPRIPL1	ITPRIP like 1	-0.943	3.711	Down
93082	NEURL3	neuralized E3 ubiquitin protein ligase 3	-3.294	3.171	Down
26504	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4	-0.696	3.266	Down
51239	ANKRD39	ankyrin repeat domain 39	-1.359	7.252	Down
129531	MITD1	microtubule interacting and trafficking domain containing 1	-0.639	2.107	Down

10190	TXNDC9	thioredoxin domain containing 9	-0.819	2.807	Down
9669	EIF5B	eukaryotic translation initiation factor 5B	-0.705	1.421	Down
79031	PDCL3	phosducin like 3	-0.876	6.986	Down
55571	CNOT11	CCR4-NOT transcription complex subunit 11	-0.548	3.098	Down
7850	IL1R2	interleukin 1 receptor type 2	-3.735	6.378	Down
3554	IL1R1	interleukin 1 receptor type 1	-1.433	2.203	Down
8808	IL1RL2	interleukin 1 receptor like 2	-3.066	3.554	Down
64965	MRPS9	mitochondrial ribosomal protein S9	-0.502	1.625	Down
1.02E+08	MRPS9-AS1	MRPS9 antisense RNA 1	-0.667	1.922	Down
79074	C2orf49	chromosome 2 open reading frame 49	-0.499	1.989	Down
205251	MTLN	mitoregulin	-0.547	1.95	Down
541471	MIR4435-2HG	MIR4435-2 host gene	-1.692	5.232	Down
1.05E+08	SOCAR	serous ovarian cancer associated RNA	-3.664	13.962	Down
64682	ANAPC1	anaphase promoting complex subunit 1	-0.483	2.336	Down
150468	CKAP2L	cytoskeleton associated protein 2 like	-2.527	3.798	Down
3552	IL1A	interleukin 1 alpha	-5.124	2.835	Down
3553	IL1B	interleukin 1 beta	-2.99	1.62	Down
23550	PSD4	pleckstrin and Sec7 domain containing 4	-0.812	2.227	Down
150472	ZNG1B	Zn regulated GTPase metalloprotein activator 1B	-1.038	10.847	Down
10096	ACTR3	actin related protein 3	-1.015	5.311	Down
1622	DBI	diazepam binding inhibitor, acyl-CoA binding protein	-1.057	4.455	Down
1.05E+08	LOC105373582	uncharacterized LOC105373582	-2.374	2.854	Down
79134	TMEM185B	transmembrane protein 185B	-0.536	3.919	Down
5899	RALB	RAS like proto-oncogene B	-1.799	24.383	Down
84365	NIFK	nucleolar protein interacting with the FHA domain of MKI67	-0.537	1.604	Down
9394	HS6ST1	heparan sulfate 6-O-sulfotransferase 1	-0.414	2.436	Down
728378	POTEF	POTE ankyrin domain family member F	-1.685	4.067	Down

92856	IMP4	IMP U3 small nucleolar ribonucleoprotein 4	-0.465	1.842	Down
653269	POTEI	POTE ankyrin domain family member I	-1.503	3.891	Down
653781	POTEJ	POTE ankyrin domain family member J	-1.63	3.877	Down
445582	POTEE	POTE ankyrin domain family member E	-1.607	4.323	Down
401010	NOC2LP2	NOC2 like nucleolar associated transcriptional repressor pseudogene 2	-1.324	3.005	Down
440915	POTEKP	POTE ankyrin domain family member K, pseudogene	-1.523	3.815	Down
4175	MCM6	minichromosome maintenance complex component 6	-0.53	1.792	Down
1.05E+08	LOC105373645	uncharacterized LOC105373645	-3.775	1.357	Down
79712	GTDC1	glycosyltransferase like domain containing 1	-0.446	1.614	Down
55660	PRPF40A	pre-mRNA processing factor 40 homolog A	-0.455	1.936	Down
2820	GPD2	glycerol-3-phosphate dehydrogenase 2	-0.677	2.865	Down
9595	CYTIP	cytohesin 1 interacting protein	-0.848	3.593	Down
90	ACVR1	activin A receptor type 1	-0.448	1.413	Down
10010	TANK	TRAF family member associated NFKB activator	-1.273	8.456	Down
10213	PSMD14	proteasome 26S subunit, non-ATPase 14	-2.143	27.924	Down
57282	SLC4A10	solute carrier family 4 member 10	-2.086	2.552	Down
1E+08	DPP4-DT	DPP4 divergent transcript	-1.571	2.543	Down
64135	IFIH1	interferon induced with helicase C domain 1	-1.466	9.167	Down
253782	CERS6	ceramide synthase 6	-0.909	2.549	Down
1.01E+08	CERS6-AS1	CERS6 antisense RNA 1	-0.863	2.01	Down
57405	SPC25	SPC25 component of NDC80 kinetochore complex	-2.469	1.384	Down
79675	FASTKD1	FAST kinase domains 1	-0.936	1.342	Down
6741	SSB	small RNA binding exonuclease protection factor La	-0.381	1.949	Down
29081	METTL5	methyltransferase 5, N6-adenosine	-0.501	1.334	Down
8604	SLC25A12	solute carrier family 25 member 12	-0.477	1.513	Down
51776	MAP3K20	mitogen-activated protein kinase kinase kinase 20	-1.168	2.312	Down
83879	CDCA7	cell division cycle associated 7	-1.356	3.31	Down

518	ATP5MC3	ATP synthase membrane subunit c locus 3	-0.99	4.899	Down
10651	MTX2	metaxin 2	-0.836	3.459	Down
220988	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	-1.003	8.401	Down
1.01E+08	MIR4444-1	microRNA 4444-1	-1.137	7.302	Down
8540	AGPS	alkylglycerone phosphate synthase	-1.002	7.17	Down
129831	RBM45	RNA binding motif protein 45	-0.764	4.453	Down
54431	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10	-0.916	7.763	Down
10787	NCKAP1	NCK associated protein 1	-0.624	1.614	Down
129401	NUP35	nucleoporin 35	-1.072	3.509	Down
55854	ZC3H15	zinc finger CCCH-type containing 15	-0.467	2.276	Down
84128	WDR75	WD repeat domain 75	-0.716	4.048	Down
26275	HIBCH	3-hydroxyisobutyryl-CoA hydrolase	-0.885	4.043	Down
3628	INPP1	inositol polyphosphate-1-phosphatase	-1.131	2.767	Down
4664	NAB1	NGFI-A binding protein 1	-0.986	3.116	Down
2744	GLS	glutaminase	-1.026	6.975	Down
6772	STAT1	signal transducer and activator of transcription 1	-2.807	21.295	Down
1.05E+08	STAT4-AS1	STAT4 antisense RNA 1	-0.552	1.307	Down
4430	MYO1B	myosin IB	-3.42	8.922	Down
64859	NABP1	nucleic acid binding protein 1	-1.755	5.965	Down
9262	STK17B	serine/threonine kinase 17b	-0.75	3.021	Down
1.02E+08	LOC101927454	uncharacterized LOC101927454	-0.681	1.96	Down
57520	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	-3.818	10.608	Down
80219	COQ10B	coenzyme Q10B	-0.664	2.946	Down
3329	HSPD1	heat shock protein family D (Hsp60) member 1	-1.176	5.96	Down
1.07E+08	SNORA105B	small nucleolar RNA, H/ACA box 105B	-1.143	5.708	Down
1.01E+08	HSPE1-MOB4	HSPE1-MOB4 readthrough	-1.009	7.025	Down
3336	HSPE1	heat shock protein family E (Hsp10) member 1	-1.805	14.796	Down

79568	MAIP1	matrix AAA peptidase interacting protein 1	-0.738	2.636	Down
1.02E+08	BZW1-AS1	BZW1 antisense RNA 1	-1.203	10.276	Down
9689	BZW1	basic leucine zipper and W2 domains 1	-1.239	9.236	Down
8837	CFLAR	CASP8 and FADD like apoptosis regulator	-0.887	2.465	Down
65072	CFLAR-AS1	CFLAR antisense RNA 1	-1.9	21.735	Down
57679	ALS2	alsin Rho guanine nucleotide exchange factor ALS2	-0.51	1.326	Down
7341	SUMO1	small ubiquitin like modifier 1	-0.616	1.609	Down
51602	NOP58	NOP58 ribonucleoprotein	-0.776	4.384	Down
130026	ICA1L	islet cell autoantigen 1 like	-1.111	2.874	Down
55759	WDR12	WD repeat domain 12	-1.521	24.585	Down
940	CD28	CD28 molecule	-0.48	1.936	Down
1493	CTLA4	cytotoxic T-lymphocyte associated protein 4	-4.066	17.204	Down
1.02E+08	LOC101927840	uncharacterized LOC101927840	-1.834	2.446	Down
29851	ICOS	inducible T cell costimulator	-2.493	27.102	Down
22868	FASTKD2	FAST kinase domains 2	-0.895	4.338	Down
151194	METTL21A	methyltransferase 21A, HSPA lysine	-0.603	1.456	Down
22807	IKZF2	IKAROS family zinc finger 2	-1.002	3.763	Down
471	ATIC	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	-0.746	2.75	Down
7520	XRCC5	X-ray repair cross complementing 5	-0.977	5.619	Down
1.01E+08	RPL37A-DT	RPL37A divergent transcript	-1.351	1.494	Down
1.02E+08	LOC101928487	uncharacterized LOC101928487	-1.407	1.742	Down
10109	ARPC2	actin related protein 2/3 complex subunit 2	-0.565	1.858	Down
14	AAMP	angio associated migratory cell protein	-0.488	2.01	Down
9125	CNOT9	CCR4-NOT transcription complex subunit 9	-0.843	8.805	Down
617	BCS1L	BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone	-0.824	2.279	Down
80326	WNT10A	Wnt family member 10A	-1.685	5.237	Down
79840	NHEJ1	non-homologous end joining factor 1	-0.923	2.75	Down

10058	ABCB6	ATP binding cassette subfamily B member 6 (Langereis blood group)	-1.092	2.74	Down
7277	TUBA4A	tubulin alpha 4a	-0.729	4.863	Down
23549	DNPEP	aspartyl aminopeptidase	-1.126	9.465	Down
29926	GMPPA	GDP-mannose pyrophosphorylase A	-0.558	1.89	Down
79586	CHPF	chondroitin polymerizing factor	-1.067	8.817	Down
130612	TMEM198	transmembrane protein 198	-1.313	1.909	Down
130367	SGPP2	sphingosine-1-phosphate phosphatase 2	-1.7	5.59	Down
10056	FARSB	phenylalanyl-tRNA synthetase subunit beta	-1.073	7.092	Down
130340	AP1S3	adaptor related protein complex 1 subunit sigma 3	-2.918	7	Down
57590	WDFY1	WD repeat and FYVE domain containing 1	-0.557	3.544	Down
84236	RHBDD1	rhomboid domain containing 1	-0.653	2.985	Down
3267	AGFG1	ArfGAP with FG repeats 1	-1.108	9.777	Down
6364	CCL20	C-C motif chemokine ligand 20	-3.515	4.128	Down
51719	CAB39	calcium binding protein 39	-0.356	2.039	Down
81618	ITM2C	integral membrane protein 2C	-0.824	1.347	Down
348761	SPATA3-AS1	SPATA3 antisense RNA 1 (head to head)	-5.595	4.638	Down
5707	PSMD1	proteasome 26S subunit, non-ATPase 1	-1.591	49.17	Down
4691	NCL	nucleolin	-0.788	3.072	Down
55355	HJURP	Holliday junction recognition protein	-2.848	2.903	Down
1293	COL6A3	collagen type VI alpha 3 chain	-1.954	3.725	Down
9208	LRRFIP1	LRR binding FLII interacting protein 1	-0.78	7.525	Down
1.01E+08	UBE2F-SCLY	UBE2F-SCLY readthrough (NMD candidate)	-0.661	2.629	Down
140739	UBE2F	ubiquitin conjugating enzyme E2 F (putative)	-0.538	2.011	Down
51540	SCLY	selenocysteine lyase	-0.726	2.014	Down
2817	GPC1	glypican 1	-2.624	3.74	Down
547	KIF1A	kinesin family member 1A	-3.657	3.526	Down
4735	SEPTIN2	septin 2	-0.553	2.782	Down

9855	FARP2	FERM, ARH/RhoGEF and pleckstrin domain protein 2	-0.84	3.198	Down
1841	DTYMK	deoxythymidylate kinase	-1.124	2.907	Down
1.01E+08	BHLHE40-AS1	BHLHE40 antisense RNA 1	-1.161	3.984	Down
8553	BHLHE40	basic helix-loop-helix family member e40	-1.771	7.356	Down
29995	LMCD1	LIM and cysteine rich domains 1	-1.518	2.449	Down
4968	OGG1	8-oxoguanine DNA glycosylase	-0.543	2.16	Down
8536	CAMK1	calcium/calmodulin dependent protein kinase I	-0.824	1.902	Down
10093	ARPC4	actin related protein 2/3 complex subunit 4	-0.505	1.719	Down
1.01E+08	ARPC4-TTLL3	ARPC4-TTLL3 readthrough	-0.458	2.711	Down
285367	RPUSD3	RNA pseudouridine synthase D3	-0.591	1.456	Down
285368	PRRT3	proline rich transmembrane protein 3	-0.581	1.661	Down
3656	IRAK2	interleukin 1 receptor associated kinase 2	-1.524	4.992	Down
6396	SEC13	SEC13 homolog, nuclear pore and COPII coat complex component	-0.87	3.486	Down
3269	HRH1	histamine receptor H1	-3.02	7.102	Down
7324	UBE2E1	ubiquitin conjugating enzyme E2 E1	-0.592	2.053	Down
28512	NKIRAS1	NFKB inhibitor interacting Ras like 1	-0.468	1.317	Down
54918	CMTM6	CKLF like MARVEL transmembrane domain containing 6	-0.776	1.97	Down
51143	DYNC1LI1	dynein cytoplasmic 1 light intermediate chain 1	-0.539	3.699	Down
1233	CCR4	C-C motif chemokine receptor 4	-0.815	1.317	Down
1.05E+08	LOC105377022	replaced by ID 2720	-2.191	3.631	Down
1.08E+08	LOC107986072	uncharacterized LOC107986072	-1.355	1.818	Down
4292	MLH1	mutL homolog 1	-0.314	1.678	Down
9941	EXOG	exo/endonuclease G	-0.824	2.15	Down
64651	CSRNP1	cysteine and serine rich nuclear protein 1	-1.37	10.945	Down
165904	XIRP1	xin actin binding repeat containing 1	-3.172	1.634	Down
1237	CCR8	C-C motif chemokine receptor 8	-2.466	6.566	Down
25994	HIGD1A	HIG1 hypoxia inducible domain family member 1A	-1.406	11.237	Down

55129	ANO10	anoctamin 10	-0.758	1.985	Down
51099	ABHD5	abhydrolase domain containing 5, lysophosphatidic acid acyltransferase	-0.636	2.689	Down
23016	EXOSC7	exosome component 7	-0.813	6.502	Down
23395	LARS2	leucyl-tRNA synthetase 2, mitochondrial	-0.822	3.972	Down
729230	CCR2	C-C motif chemokine receptor 2	-1.747	4.217	Down
1234	CCR5	C-C motif chemokine receptor 5	-1.209	1.721	Down
23276	KLHL18	kelch like family member 18	-0.473	1.513	Down
22907	DHX30	DExH-box helicase 30	-0.505	2.676	Down
4134	MAP4	microtubule associated protein 4	-1.058	2.572	Down
993	CDC25A	cell division cycle 25A	-3.166	7.803	Down
5364	PLXNB1	plexin B1	-1.485	1.905	Down
7384	UQCRC1	ubiquinol-cytochrome c reductase core protein 1	-0.835	3.334	Down
10425	ARIH2	ariadne RBR E3 ubiquitin protein ligase 2	-0.229	1.745	Down
25915	NDUFAF3	NADH:ubiquinone oxidoreductase complex assembly factor 3	-0.864	3.475	Down
387	RHOA	ras homolog family member A	-0.549	1.628	Down
29925	GMPPB	GDP-mannose pyrophosphorylase B	-0.902	4.534	Down
132228	LSMEM2	leucine rich single-pass membrane protein 2	-1.323	5.569	Down
7866	IFRD2	interferon related developmental regulator 2	-1.396	10.873	Down
8372	HYAL3	hyaluronidase 3	-1.268	5.164	Down
8692	HYAL2	hyaluronidase 2	-1.296	4.384	Down
51161	C3orf18	chromosome 3 open reading frame 18	-1.599	4.777	Down
1154	CISH	cytokine inducible SH2 containing protein	-2.931	3.802	Down
7867	MAPKAPK3	MAPK activated protein kinase 3	-1.803	10.524	Down
7873	MANF	mesencephalic astrocyte derived neurotrophic factor	-1.348	5.978	Down
9136	RRP9	ribosomal RNA processing 9, U3 small nucleolar RNA binding protein	-1.303	10.443	Down
95	ACY1	aminoacylase 1	-1.594	5.776	Down
211	ALAS1	5'-aminolevulinate synthase 1	-0.886	4.267	Down

11344	TWF2	twinfilin actin binding protein 2	-0.498	2.046	Down
132160	PPM1M	protein phosphatase, Mg2+/Mn2+ dependent 1M	-0.682	1.803	Down
64943	NT5DC2	5'-nucleotidase domain containing 2	-1.18	2.26	Down
26354	GNL3	G protein nucleolar 3	-0.676	2.966	Down
5580	PRKCD	protein kinase C delta	-0.649	1.68	Down
55802	DCP1A	decapping mRNA 1A	-0.379	1.579	Down
55540	IL17RB	interleukin 17 receptor B	-1.701	3.991	Down
58515	SELENOK	selenoprotein K	-0.953	3.196	Down
201626	PDE12	phosphodiesterase 12	-0.723	3.403	Down
378	ARF4	ADP ribosylation factor 4	-0.919	2.681	Down
80145	THOC7	THO complex subunit 7	-0.711	1.367	Down
9861	PSMD6	proteasome 26S subunit, non-ATPase 6	-1.132	14.575	Down
84541	KBTBD8	kelch repeat and BTB domain containing 8	-1.535	10.64	Down
23150	FRMD4B	FERM domain containing 4B	-2.091	3.911	Down
23429	RYBP	RING1 and YY1 binding protein	-0.618	5.292	Down
151987	PPP4R2	protein phosphatase 4 regulatory subunit 2	-0.595	2.075	Down
1.01E+08	MIR4444-2	microRNA 4444-2	-1.022	2.701	Down
2632	GBE1	1,4-alpha-glucan branching enzyme 1	-0.862	1.625	Down
25978	CHMP2B	charged multivesicular body protein 2B	-0.379	1.743	Down
200894	ARL13B	ADP ribosylation factor like GTPase 13B	-0.836	2.27	Down
84864	RIOX2	ribosomal oxygenase 2	-0.651	3.747	Down
56650	CLDND1	claudin domain containing 1	-1.396	8.091	Down
1371	CPOX	coproporphyrinogen oxidase	-1.206	7.474	Down
1.02E+08	HP09053	uncharacterized LOC101929357	-0.967	2.598	Down
84319	CMSS1	cms1 ribosomal small subunit homolog	-1.192	5.697	Down
56954	NIT2	nitrilase family member 2	-0.473	2.801	Down
10342	TFG	trafficking from ER to golgi regulator	-0.517	2.514	Down

131909	FAM172BP	family with sequence similarity 172 member B, pseudogene	-0.778	2.255	Down
285359	PDCL3P4	PDCL3 pseudogene 4	-0.869	1.96	Down
1.02E+08	LINC01215	long intergenic non-protein coding RNA 1215	-1.544	6.391	Down
55081	IFT57	intraflagellar transport 57	-0.733	2.613	Down
11148	HHLA2	HERV-H LTR-associating 2	-1.986	1.361	Down
57650	CIP2A	cellular inhibitor of PP2A	-1.87	12.27	Down
25945	NECTIN3	nectin cell adhesion molecule 3	-1.094	1.94	Down
79413	ZBED2	zinc finger BED-type containing 2	-6.64	49.36	Down
79669	C3orf52	chromosome 3 open reading frame 52	-1.086	4.277	Down
257144	GCSAM	germinal center associated signaling and motility	-1.031	3.146	Down
4345	CD200	CD200 molecule	-1.536	2.234	Down
80218	NAA50	N-alpha-acetyltransferase 50, NatE catalytic subunit	-0.583	2.041	Down
523	ATP6V1A	ATPase H+ transporting V1 subunit A	-0.492	1.7	Down
152404	IGSF11	immunoglobulin superfamily member 11	-2.55	2.843	Down
8702	B4GALT4	beta-1,4-galactosyltransferase 4	-0.766	2.906	Down
57514	ARHGAP31	Rho GTPase activating protein 31	-1.843	3.721	Down
941	CD80	CD80 molecule	-2.897	2.545	Down
141	ADPRH	ADP-ribosylarginine hydrolase	-1.033	1.593	Down
10063	COX17	cytochrome c oxidase copper chaperone COX17	-1.441	10.885	Down
846	CASR	calcium sensing receptor	-3.131	1.48	Down
131076	MIX23	mitochondrial matrix import factor 23	-1.411	5.152	Down
54625	PARP14	poly(ADP-ribose) polymerase family member 14	-1.098	3.175	Down
10954	PDIA5	protein disulfide isomerase family A member 5	-1.422	5.652	Down
7372	UMPS	uridine monophosphate synthetase	-0.776	3.562	Down
4171	MCM2	minichromosome maintenance complex component 2	-1.277	13.765	Down
1.08E+08	LOC107986126	uncharacterized LOC107986126	-1.284	8.282	Down
8607	RUVBL1	RuvB like AAA ATPase 1	-0.993	8.353	Down

2624	GATA2	GATA binding protein 2	-1.428	3.356	Down
6184	RPN1	ribophorin I	-0.583	2.001	Down
7879	RAB7A	RAB7A, member RAS oncogene family	-0.506	1.401	Down
28976	ACAD9	acyl-CoA dehydrogenase family member 9	-1.074	14.433	Down
57501	CFAP92	cilia and flagella associated protein 92 (putative)	-0.962	4.164	Down
27032	ATP2C1	ATPase secretory pathway Ca2+ transporting 1	-0.669	6.067	Down
11222	MRPL3	mitochondrial ribosomal protein L3	-0.913	3.004	Down
1.05E+08	LOC105374114	uncharacterized LOC105374114	-0.804	1.613	Down
79876	UBA5	ubiquitin like modifier activating enzyme 5	-0.634	6.373	Down
55573	CDV3	CDV3 homolog	-0.455	1.901	Down
58477	SRPRB	SRP receptor subunit beta	-0.651	1.366	Down
5096	PCCB	propionyl-CoA carboxylase subunit beta	-0.711	4.342	Down
55179	FAIM	Fas apoptotic inhibitory molecule	-1.153	3.35	Down
9276	COPB2	COPI coat complex subunit beta 2	-0.487	1.394	Down
483	ATP1B3	ATPase Na+/K+ transporting subunit beta 3	-1.18	6.122	Down
54464	XRN1	5'-3' exoribonuclease 1	-0.476	1.546	Down
51714	SELENOT	selenoprotein T	-0.813	4.142	Down
6478	SIAH2	siah E3 ubiquitin protein ligase 2	-1.053	5.784	Down
29909	GPR171	G protein-coupled receptor 171	-1.267	4.062	Down
9934	P2RY14	purinergic receptor P2Y14	-1.95	2.294	Down
647033	PA2G4P4	proliferation-associated 2G4 pseudogene 4	-0.899	6.269	Down
85476	GFM1	G elongation factor mitochondrial 1	-0.728	3.063	Down
84517	ACTRT3	actin related protein T3	-3.757	6.358	Down
200916	RPL22L1	ribosomal protein L22 like 1	-1.764	11.243	Down
64778	FNDC3B	fibronectin type III domain containing 3B	-0.676	1.561	Down
1.08E+08	LOC107986153		-1.917	2.805	Down
1894	ECT2	epithelial cell transforming 2	-1.103	3.003	Down

86	ACTL6A	actin like 6A	-0.704	2.606	Down
57129	MRPL47	mitochondrial ribosomal protein L47	-1.177	7.112	Down
54165	DCUN1D1	defective in cullin neddylation 1 domain containing 1	-0.493	2.56	Down
1.11E+08	EEF1AKMT4	EEF1A lysine methyltransferase 4	-1.782	7.536	Down
1.11E+08	EEF1AKMT4-ECE2	EEF1AKMT4-ECE2 readthrough	-1.935	6.664	Down
5708	PSMD2	proteasome 26S subunit ubiquitin receptor, non-ATPase 2	-1.119	23.732	Down
1981	EIF4G1	eukaryotic translation initiation factor 4 gamma 1	-0.917	3.612	Down
5437	POLR2H	RNA polymerase II, I and III subunit H	-1.23	9.062	Down
6434	TRA2B	transformer 2 beta homolog	-1.075	8.13	Down
344887	NMRAL2P	NmrA like redox sensor 2, pseudogene	-2.835	1.606	Down
51726	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11	-1.438	15.718	Down
5984	RFC4	replication factor C subunit 4	-0.705	1.679	Down
339929	LPP-AS2	LPP antisense RNA 2	-2.431	2.444	Down
4026	LPP	LIM domain containing preferred translocation partner in lipoma	-1.26	1.672	Down
9076	CLDN1	claudin 1	-3.396	2.505	Down
3556	IL1RAP	interleukin 1 receptor accessory protein	-0.893	3.071	Down
7037	TFRC	transferrin receptor	-1.712	5.074	Down
5130	PCYT1A	phosphate cytidylyltransferase 1A, choline	-0.775	3.741	Down
200933	FBXO45	F-box protein 45	-0.436	1.498	Down
54965	PIGX	phosphatidylinositol glycan anchor biosynthesis class X	-0.98	3.459	Down
84223	IQCG	IQ motif containing G	-1.799	4.957	Down
3954	LETM1	leucine zipper and EF-hand containing transmembrane protein 1	-0.685	3.096	Down
401115	C4orf48	chromosome 4 open reading frame 48	-0.929	1.789	Down
79155	TNIP2	TNFAIP3 interacting protein 2	-0.912	6.615	Down
6452	SH3BP2	SH3 domain binding protein 2	-0.815	1.53	Down
10227	MFSD10	major facilitator superfamily domain containing 10	-0.44	1.52	Down
8602	NOP14	NOP14 nucleolar protein	-0.73	1.675	Down

80273	GRPEL1	GrpE like 1, mitochondrial	-0.965	6.685	Down
8310	ACOX3	acyl-CoA oxidase 3, pristanoyl	-0.729	3.055	Down
9948	WDR1	WD repeat domain 1	-0.876	7.328	Down
952	CD38	CD38 molecule	-2.15	7.143	Down
51056	LAP3	leucine aminopeptidase 3	-0.848	1.445	Down
1665	DHX15	DEAH-box helicase 15	-0.85	6.955	Down
55300	PI4K2B	phosphatidylinositol 4-kinase type 2 beta	-0.748	3.361	Down
3516	RBPJ	recombination signal binding protein for immunoglobulin kappa J region	-0.845	2.707	Down
55276	PGM2	phosphoglucomutase 2	-0.696	4.139	Down
23216	TBC1D1	TBC1 domain family member 1	-0.771	3.174	Down
1.05E+08	LOC105374407		-0.884	1.493	Down
80008	TMEM156	transmembrane protein 156	-0.686	1.943	Down
51088	KLHL5	kelch like family member 5	-0.868	2.883	Down
55161	TMEM33	transmembrane protein 33	-0.466	1.556	Down
152519	NIPAL1	NIPA like domain containing 1	-1.729	2.959	Down
6443	SGCB	sarcoglycan beta	-0.656	3.366	Down
152579	SCFD2	sec1 family domain containing 2	-1.424	11.611	Down
55858	TMEM165	transmembrane protein 165	-1.14	8.627	Down
10606	PAICS	phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthase	-1.204	4.635	Down
6731	SRP72	signal recognition particle 72	-0.36	1.548	Down
84525	HOPX	HOP homeobox	-1.055	1.31	Down
55236	UBA6	ubiquitin like modifier activating enzyme 6	-0.511	3.685	Down
92597	MOB1B	MOB kinase activator 1B	-0.523	1.589	Down
441024	MTHFD2L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2 like	-0.832	1.838	Down
419	ART3	ADP-ribosyltransferase 3 (inactive)	-5.555	3.475	Down
3627	CXCL10	C-X-C motif chemokine ligand 10	-4.389	4.349	Down

6373	CXCL11	C-X-C motif chemokine ligand 11	-4.228	4.946	Down
55752	SEPTIN11	septin 11	-1.246	14.206	Down
10563	CXCL13	C-X-C motif chemokine ligand 13	-2.976	2.061	Down
56978	PRDM8	PR/SET domain 8	-1.158	2.397	Down
3184	HNRNPD	heterogeneous nuclear ribonucleoprotein D	-0.689	3.521	Down
9987	HNRNPDL	heterogeneous nuclear ribonucleoprotein D like	-0.743	4.195	Down
51138	COPS4	COP9 signalosome subunit 4	-0.507	1.419	Down
10855	HPSE	heparanase	-0.35	1.919	Down
266812	NAP1L5	nucleosome assembly protein 1 like 5	-0.785	2.272	Down
10098	TSPAN5	tetraspanin 5	-0.762	3.21	Down
1977	EIF4E	eukaryotic translation initiation factor 4E	-0.696	2.521	Down
93587	TRMT10A	tRNA methyltransferase 10A	-0.466	1.474	Down
27071	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-0.827	1.306	Down
3015	H2AZ1	H2A.Z variant histone 1	-0.595	2.766	Down
64116	SLC39A8	solute carrier family 39 member 8	-1.172	3.534	Down
4790	NFKB1	nuclear factor kappa B subunit 1	-1.428	6.678	Down
1.03E+08	LOC102723704	uncharacterized LOC102723704	-0.529	2.172	Down
7323	UBE2D3	ubiquitin conjugating enzyme E2 D3	-0.455	1.423	Down
79807	GSTCD	glutathione S-transferase C-terminal domain containing	-0.555	1.671	Down
54433	GAR1	GAR1 ribonucleoprotein	-1.237	6.853	Down
79071	ELOVL6	ELOVL fatty acid elongase 6	-2.6	9.559	Down
1.08E+08	LOC107986303		-1.659	1.343	Down
132720	FAM241A	family with sequence similarity 241 member A	-1.632	3.984	Down
92610	TIFA	TRAF interacting protein with forkhead associated domain	-0.948	2.826	Down
817	CAMK2D	calcium/calmodulin dependent protein kinase II delta	-1.194	5.537	Down
9871	SEC24D	SEC24 homolog D, COPII coat complex component	-0.589	2.006	Down
79931	TNIP3	TNFAIP3 interacting protein 3	-3.182	7.106	Down

5393	EXOSC9	exosome component 9	-0.464	2.772	Down
59067	IL21	interleukin 21	-3.152	5.159	Down
1.01E+08	IL21-AS1	IL21 antisense RNA 1	-1.643	1.401	Down
55132	LARP1B	La ribonucleoprotein 1B	-0.715	3.332	Down
25819	NOCT	nocturnin	-2.049	5.113	Down
80155	NAA15	N-alpha-acetyltransferase 15, NatA auxiliary subunit	-1.024	13.9	Down
3600	IL15	interleukin 15	-1.293	2.3	Down
10393	ANAPC10	anaphase promoting complex subunit 10	-0.578	1.706	Down
6059	ABCE1	ATP binding cassette subfamily E member 1	-0.809	3.435	Down
54726	OTUD4	OTU deubiquitinase 4	-0.601	2.676	Down
4086	SMAD1	SMAD family member 1	-0.783	1.34	Down
11157	LSM6	LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.566	1.479	Down
84068	SLC10A7	solute carrier family 10 member 7	-0.501	2.074	Down
1E+08	LOC100419170	toll like receptor 2 pseudogene	-2.713	1.524	Down
5356	PLRG1	pleiotropic regulator 1	-0.667	2.993	Down
201725	C4orf46	chromosome 4 open reading frame 46	-1.557	14.377	Down
5481	PPID	peptidylprolyl isomerase D	-0.453	2.369	Down
55319	TMA16	translation machinery associated 16 homolog	-0.892	4.212	Down
2713	GK3	glycerol kinase 3	-1.684	1.847	Down
6307	MSMO1	methylsterol monooxygenase 1	-1.188	5.671	Down
9848	MFAP3L	microfibril associated protein 3 like	-0.866	1.643	Down
8819	SAP30	Sin3A associated protein 30	-0.559	1.524	Down
201965	RWDD4	RWD domain containing 4	-0.393	2.032	Down
1.05E+08	LINC02365	long intergenic non-protein coding RNA 2365	-3.19	2.512	Down
836	CASP3	caspase 3	-0.666	2.057	Down
79682	CENPU	centromere protein U	-1.48	6.932	Down
731424	MIR3945HG	MIR3945 host gene	-2.034	1.336	Down

9319	TRIP13	thyroid hormone receptor interactor 13	-2.158	10.056	Down
7015	TERT	telomerase reverse transcriptase	-2.587	2.876	Down
4726	NDUFS6	NADH:ubiquinone oxidoreductase subunit S6	-0.842	4.156	Down
54888	NSUN2	NOP2/Sun RNA methyltransferase 2	-0.629	6.19	Down
79072	FASTKD3	FAST kinase domains 3	-0.406	1.669	Down
134145	ATPSCKMT	ATP synthase c subunit lysine N-methyltransferase	-0.888	2.883	Down
22948	CCT5	chaperonin containing TCP1 subunit 5	-1.498	13.575	Down
651746	ANKRD33B	ankyrin repeat domain 33B	-1.474	1.708	Down
1.07E+08	SNORA105A	small nucleolar RNA, H/ACA box 105A	-1.194	5.796	Down
55322	C5orf22	chromosome 5 open reading frame 22	-0.373	1.83	Down
10923	SUB1	SUB1 regulator of transcription	-0.809	2.222	Down
6897	TARS1	threonyl-tRNA synthetase 1	-1.766	2.234	Down
55299	BRIX1	biogenesis of ribosomes BRX1	-0.897	6.667	Down
5734	PTGER4	prostaglandin E receptor 4	-1.697	21.737	Down
5019	OXCT1	3-oxoacid CoA-transferase 1	-0.537	3.419	Down
3157	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1	-1.82	14.929	Down
10884	MRPS30	mitochondrial ribosomal protein S30	-0.265	1.369	Down
3672	ITGA1	integrin subunit alpha 1	-1.132	1.567	Down
3001	GZMA	granzyme A	-1.281	1.716	Down
23517	MTREX	Mtr4 exosome RNA helicase	-0.725	4.098	Down
8611	PLPP1	phospholipid phosphatase 1	-1.269	4.463	Down
153129	SLC38A9	solute carrier family 38 member 9	-0.494	1.853	Down
166968	MIER3	MIER family member 3	-0.449	2.561	Down
79993	ELOVL7	ELOVL fatty acid elongase 7	-2.137	3.056	Down
91942	NDUFAF2	NADH:ubiquinone oxidoreductase complex assembly factor 2	-0.674	1.806	Down
643155	SMIM15	small integral membrane protein 15	-0.666	4.606	Down
3796	KIF2A	kinesin family member 2A	-0.425	1.479	Down

51194	IPO11	importin 11	-1.068	6.209	Down
1.01E+08	IPO11-LRRC70	IPO11-LRRC70 readthrough	-0.821	2.707	Down
10283	CWC27	CWC27 spliceosome associated cyclophilin	-0.716	4.168	Down
57486	NLN	neurolysin	-1.542	8.004	Down
891	CCNB1	cyclin B1	-0.951	2.602	Down
92259	MRPS36	mitochondrial ribosomal protein S36	-0.585	1.785	Down
1022	CDK7	cyclin dependent kinase 7	-0.892	9.887	Down
1.02E+08	AK6	adenylate kinase 6	-1.044	6.037	Down
728340	GTF2H2C	GTF2H2 family member C	-0.931	5.008	Down
728492	SERF1B	small EDRK-rich factor 1B	-0.495	1.31	Down
6607	SMN2	survival of motor neuron 2, centromeric	-0.796	1.385	Down
653238	GTF2H2B	general transcription factor IIH subunit 2B (pseudogene)	-0.817	5.818	Down
8293	SERF1A	small EDRK-rich factor 1A	-0.505	1.321	Down
6606	SMN1	survival of motor neuron 1, telomeric	-0.778	1.52	Down
2966	GTF2H2	general transcription factor IIH subunit 2	-0.97	6.471	Down
64087	MCCC2	methylcrotonyl-CoA carboxylase subunit 2	-1.115	6.652	Down
84135	UTP15	UTP15 small subunit processome component	-0.912	5.779	Down
26049	FAM169A	family with sequence similarity 169 member A	-0.514	2.446	Down
3156	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase	-0.911	12.262	Down
8546	AP3B1	adaptor related protein complex 3 subunit beta 1	-0.376	2.539	Down
411	ARSB	arylsulfatase B	-1.342	2.947	Down
9456	HOMER1	homer scaffold protein 1	-1.375	6.29	Down
644936	LOC644936	actin beta pseudogene	-1.472	2.216	Down
441089	CRSP8P	mediator complex subunit 27 pseudogene	-1.051	3.539	Down
10622	POLR3G	RNA polymerase III subunit G	-0.966	3.276	Down
116068	LYSMD3	LysM domain containing 3	-0.506	1.514	Down
22936	ELL2	elongation factor for RNA polymerase II 2	-1.941	22.957	Down

55781	RIOK2	RIO kinase 2	-0.425	1.736	Down
7903	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	-0.677	1.692	Down
1.08E+08	LOC107986437	uncharacterized LOC107986437	-1.29	2.187	Down
134430	WDR36	WD repeat domain 36	-0.696	2.853	Down
6728	SRP19	signal recognition particle 19	-0.531	1.49	Down
51397	COMMD10	COMM domain containing 10	-0.595	1.422	Down
25816	TNFAIP8	TNF alpha induced protein 8	-0.653	3.237	Down
153443	SRFBP1	serum response factor binding protein 1	-0.883	8.044	Down
1456	CSNK1G3	casein kinase 1 gamma 3	-0.735	8.623	Down
51808	PHAX	phosphorylated adaptor for RNA export	-0.439	1.584	Down
115123	MARCHF3	membrane associated ring-CH-type finger 3	-1.344	2.446	Down
1.05E+08	LOC105379174	uncharacterized LOC105379174	-4.972	3.774	Down
3562	IL3	interleukin 3	-5.924	10.18	Down
1437	CSF2	colony stimulating factor 2	-6.152	9.65	Down
8974	P4HA2	prolyl 4-hydroxylase subunit alpha 2	-2.092	3.014	Down
3659	IRF1	interferon regulatory factor 1	-1.397	3.955	Down
3567	IL5	interleukin 5	-6.172	4.231	Down
3596	IL13	interleukin 13	-8.955	8.555	Down
3565	IL4	interleukin 4	-5.15	6.839	Down
1.05E+08	LOC105379176	uncharacterized LOC105379176	-4.645	4.807	Down
645121	CCNI2	cyclin I family member 2	-1.001	3.103	Down
23176	SEPTIN8	septin 8	-1.647	9.505	Down
2661	GDF9	growth differentiation factor 9	-1.072	2.99	Down
27089	UQCRQ	ubiquinol-cytochrome c reductase complex III subunit VII	-1.207	4.252	Down
3308	HSPA4	heat shock protein family A (Hsp70) member 4	-0.965	13.347	Down
7416	VDAC1	voltage dependent anion channel 1	-1.615	13.596	Down
5515	PPP2CA	protein phosphatase 2 catalytic subunit alpha	-0.603	2.522	Down

1.01E+08	MIR3661	microRNA 3661	-0.493	2.441	Down
51128	SAR1B	secretion associated Ras related GTPase 1B	-0.348	1.564	Down
10802	SEC24A	SEC24 homolog A, COPII coat complex component	-0.781	5.346	Down
3578	IL9	interleukin 9	-8.501	5.857	Down
51308	REEP2	receptor accessory protein 2	-1.609	1.513	Down
1958	EGR1	early growth response 1	-4.828	31.412	Down
2107	ETF1	eukaryotic translation termination factor 1	-1.229	7.652	Down
3313	HSPA9	heat shock protein family A (Hsp70) member 9	-1.215	15.968	Down
1.05E+08	LOC105379193	uncharacterized LOC105379193	-1.232	13.2	Down
9782	MATR3	matrin 3	-0.237	1.556	Down
51237	MZB1	marginal zone B and B1 cell specific protein	-2.66	2.754	Down
389333	PROB1	proline rich basic protein 1	-2.757	10.988	Down
202051	SPATA24	spermatogenesis associated 24	-1.575	3.928	Down
202052	DNAJC18	DnaJ heat shock protein family (Hsp40) member C18	-1.551	8.531	Down
641700	ECSCR	endothelial cell surface expressed chemotaxis and apoptosis regulator	-4.299	3.517	Down
1839	HBEGF	heparin binding EGF like growth factor	-2.619	3.349	Down
10011	SRA1	steroid receptor RNA activator 1	-1.317	5.978	Down
113829	SLC35A4	solute carrier family 35 member A4	-0.52	1.704	Down
3035	HARS1	histidyl-tRNA synthetase 1	-0.689	4.225	Down
10007	GNPDA1	glucosamine-6-phosphate deaminase 1	-0.476	1.776	Down
81848	SPRY4	sprouty RTK signaling antagonist 4	-6.105	5.093	Down
51520	LARS1	leucyl-tRNA synthetase 1	-0.712	4.404	Down
10318	TNIP1	TNFAIP3 interacting protein 1	-0.789	2.918	Down
475	ATOX1	antioxidant 1 copper chaperone	-0.757	1.95	Down
1.01E+08	LOC100652758	uncharacterized LOC100652758	-0.705	1.907	Down
10146	G3BP1	G3BP stress granule assembly factor 1	-0.957	3.75	Down
55568	GALNT10	polypeptide N-acetylgalactosaminyltransferase 10	-0.578	2.733	Down

1.08E+08	LOC107986465	uncharacterized LOC107986465	-1.419	2.633	Down
25929	GEMIN5	gem nuclear organelle associated protein 5	-0.562	2.169	Down
29093	MRPL22	mitochondrial ribosomal protein L22	-0.838	3.175	Down
408263	FNDC9	fibronectin type III domain containing 9	-3.449	2.361	Down
348938	NIPAL4	NIPA like domain containing 4	-3.215	3.474	Down
153830	RNF145	ring finger protein 145	-0.46	1.585	Down
3593	IL12B	interleukin 12B	-6.056	2.02	Down
7265	TTC1	tetratricopeptide repeat domain 1	-0.617	1.512	Down
9232	PTTG1	PTTG1 regulator of sister chromatid separation, securin	-1.194	6.009	Down
1.07E+08	MIR3142HG	MIR3142 host gene	-2.444	7.095	Down
406938	MIR146A	microRNA 146a	-2.866	2.009	Down
3161	HMMR	hyaluronan mediated motility receptor	-2.628	3.118	Down
27430	MAT2B	methionine adenosyltransferase 2B	-0.506	1.558	Down
5917	RARS1	arginyl-tRNA synthetase 1	-1.013	7.304	Down
79646	PANK3	pantothenate kinase 3	-0.484	1.446	Down
133874	C5orf58	chromosome 5 open reading frame 58	-1.026	2.886	Down
3937	LCP2	lymphocyte cytosolic protein 2	-1.114	3.859	Down
1E+08	LOC100128059	uncharacterized LOC100128059	-4.703	5.872	Down
51121	RPL26L1	ribosomal protein L26 like 1	-1.107	3.429	Down
662	BNIP1	BCL2 interacting protein 1	-1.122	4.1	Down
80315	CPEB4	cytoplasmic polyadenylation element binding protein 4	-0.571	4.36	Down
94081	SFXN1	sideroflexin 1	-0.493	1.313	Down
3274	HRH2	histamine receptor H2	-2.094	8.916	Down
51491	NOP16	NOP16 nucleolar protein	-1.116	6.128	Down
1212	CLTB	clathrin light chain B	-0.376	1.316	Down
23197	FAF2	Fas associated factor family member 2	-0.586	3.99	Down
114787	GPRIN1	G protein regulated inducer of neurite outgrowth 1	-1.802	3.209	Down

26262	TSPAN17	tetraspanin 17	-1.13	14.625	Down
27166	PRELID1	PRELI domain containing 1	-0.956	3.46	Down
83463	MXD3	MAX dimerization protein 3	-0.946	3.534	Down
2161	F12	coagulation factor XII	-3.677	4.638	Down
80758	PRR7	proline rich 7, synaptic	-0.816	1.87	Down
1627	DBN1	drebrin 1	-2.411	6.457	Down
9260	PDLIM7	PDZ and LIM domain 7	-0.883	1.589	Down
51428	DDX41	DEAD-box helicase 41	-0.478	1.82	Down
54732	TMED9	transmembrane p24 trafficking protein 9	-0.613	2.718	Down
23138	N4BP3	NEDD4 binding protein 3	-1.791	7.905	Down
64777	RMND5B	required for meiotic nuclear division 5 homolog B	-0.655	3.475	Down
55651	NHP2	NHP2 ribonucleoprotein	-1.35	5.603	Down
3182	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	-1.237	13.306	Down
85007	PHYKPL	5-phosphohydroxy-L-lysine phospho-lyase	-0.323	1.577	Down
8878	SQSTM1	sequestosome 1	-0.816	4.088	Down
3662	IRF4	interferon regulatory factor 4	-3.962	5.751	Down
55770	EXOC2	exocyst complex component 2	-0.437	2.447	Down
135458	HUS1B	HUS1 checkpoint clamp component B	-2.465	2.276	Down
2762	GMDS	GDP-mannose 4,6-dehydratase	-0.598	2.813	Down
4835	NQO2	N-ribosyldihydronicotinamide:quinone reductase 2	-0.642	1.912	Down
7280	TUBB2A	tubulin beta 2A class IIa	-2.143	6.84	Down
347733	TUBB2B	tubulin beta 2B class IIb	-1.856	5.325	Down
221749	PXDC1	PX domain containing 1	-1.445	1.774	Down
10799	RPP40	ribonuclease P/MRP subunit p40	-1.331	2.656	Down
10667	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	-0.718	1.641	Down
285782	CAGE1	cancer antigen 1	-1.863	1.372	Down
83732	RIOK1	RIO kinase 1	-1.086	7.279	Down

654	BMP6	bone morphogenetic protein 6	-0.884	1.881	Down
1.01E+08	BLOC1S5-TXNDC5	BLOC1S5-TXNDC5 readthrough (NMD candidate)	-0.919	5.462	Down
81567	TXNDC5	thioredoxin domain containing 5	-0.999	6.832	Down
9521	EEF1E1	eukaryotic translation elongation factor 1 epsilon 1	-1.169	3.982	Down
55003	PAK1IP1	PAK1 interacting protein 1	-1.328	5.164	Down
221710	SMIM13	small integral membrane protein 13	-0.722	1.686	Down
4739	NEDD9	neural precursor cell expressed, developmentally down-regulated 9	-1.184	6.348	Down
1.12E+08	LOC112267953		-0.91	1.977	Down
3096	HIVEP1	HIVEP zinc finger 1	-0.822	1.426	Down
51406	NOL7	nucleolar protein 7	-0.751	4.959	Down
63933	MCUR1	mitochondrial calcium uniporter regulator 1	-0.445	2.804	Down
9308	CD83	CD83 molecule	-1.692	2.149	Down
6310	ATXN1	ataxin 1	-1.048	2.617	Down
1.02E+08	ATXN1-AS1	ATXN1 antisense RNA 1	-1.124	2.655	Down
9972	NUP153	nucleoporin 153	-0.657	2.498	Down
1.05E+08	NUP153-AS1	NUP153 antisense RNA 1	-0.964	5.991	Down
1871	E2F3	E2F transcription factor 3	-0.601	1.66	Down
54901	CDKAL1	CDK5 regulatory subunit associated protein 1 like 1	-0.801	5.043	Down
1.08E+08	LOC107986578	uncharacterized LOC107986578	-0.95	1.869	Down
57380	MRS2	magnesium transporter MRS2	-0.401	1.375	Down
51053	GMNN	geminin DNA replication inhibitor	-1.195	4.688	Down
8418	CMAHP	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene	-1.475	5.128	Down
10385	BTN2A2	butyrophilin subfamily 2 member A2	-1.372	4.856	Down
64288	ZSCAN31	zinc finger and SCAN domain containing 31	-0.861	1.347	Down
3134	HLA-F	major histocompatibility complex, class I, F	-0.57	2.772	Down
6992	PPP1R11	protein phosphatase 1 regulatory inhibitor subunit 11	-0.621	2.066	Down
80742	PRR3	proline rich 3	-0.42	1.852	Down

23	ABCF1	ATP binding cassette subfamily F member 1	-0.892	2.635	Down
203068	TUBB	tubulin beta class I	-1.393	24.131	Down
10211	FLOT1	flotillin 1	-0.642	2.13	Down
1.05E+08	IER3-AS1	IER3 antisense RNA 1	-2.933	7.341	Down
8870	IER3	immediate early response 3	-3.062	6.41	Down
2968	GTF2H4	general transcription factor IIH subunit 4	-0.846	6.234	Down
4049	LTA	lymphotoxin alpha	-4.295	29.731	Down
7124	TNF	tumor necrosis factor	-4.121	6.169	Down
4050	LTB	lymphotoxin beta	-0.665	1.915	Down
259197	NCR3	natural cytotoxicity triggering receptor 3	-2.357	3.536	Down
7917	BAG6	BAG cochaperone 6	-0.549	4.321	Down
1460	CSNK2B	casein kinase 2 beta	-0.568	1.832	Down
1192	CLIC1	chloride intracellular channel 1	-1.21	9.14	Down
7407	VARS1	valyl-tRNA synthetase 1	-1.476	14.521	Down
57819	LSM2	LSM2 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.769	1.925	Down
629	CFB	complement factor B	-3.446	2.319	Down
7936	NELFE	negative elongation factor complex member E	-0.6	1.661	Down
6891	TAP2	transporter 2, ATP binding cassette subfamily B member	-1.614	17.623	Down
5696	PSMB8	proteasome 20S subunit beta 8	-0.943	3.251	Down
1.01E+08	PSMB8-AS1	PSMB8 antisense RNA 1 (head to head)	-0.816	3.193	Down
6890	TAP1	transporter 1, ATP binding cassette subfamily B member	-1.933	13.4	Down
5698	PSMB9	proteasome 20S subunit beta 9	-1.154	7.108	Down
6015	RING1	ring finger protein 1	-0.371	1.522	Down
9277	WDR46	WD repeat domain 46	-1.012	6.981	Down
10471	PFDN6	prefoldin subunit 6	-1.05	5.093	Down
6892	TAPBP	TAP binding protein	-1.114	7.057	Down
578	BAK1	BCL2 antagonist/killer 1	-0.925	3.408	Down

84300	UQCC2	ubiquinol-cytochrome c reductase complex assembly factor 2	-0.916	1.88	Down
3159	HMGA1	high mobility group AT-hook 1	-0.59	1.585	Down
6631	SNRPC	small nuclear ribonucleoprotein polypeptide C	-0.738	2.268	Down
6732	SRPK1	SRSF protein kinase 1	-0.849	10.374	Down
389384	BNIP5	BCL2 interacting protein 5	-4.117	2.239	Down
51513	ETV7	ETS variant transcription factor 7	-2.701	6.709	Down
222658	KCTD20	potassium channel tetramerization domain containing 20	-0.44	2.387	Down
6428	SRSF3	serine and arginine rich splicing factor 3	-1.388	13.438	Down
1026	CDKN1A	cyclin dependent kinase inhibitor 1A	-1.45	2.361	Down
51645	PPIL1	peptidylprolyl isomerase like 1	-1.271	8.262	Down
221468	TMEM217	transmembrane protein 217	-0.881	2.012	Down
55633	TBC1D22B	TBC1 domain family member 22B	-0.331	1.427	Down
23070	CMTR1	cap methyltransferase 1	-0.61	2.238	Down
154467	CCDC167	coiled-coil domain containing 167	-0.981	2.89	Down
2739	GLO1	glyoxalase I	-0.601	1.599	Down
8645	KCNK5	potassium two pore domain channel subfamily K member 5	-3.159	17.204	Down
57497	LRFN2	leucine rich repeat and fibronectin type III domain containing 2	-3.604	1.913	Down
79865	TREML2	triggering receptor expressed on myeloid cells like 2	-2.902	6.994	Down
116113	FOXP4	forkhead box P4	-1.32	2.991	Down
1E+08	TOMM6	translocase of outer mitochondrial membrane 6	-0.623	1.37	Down
25862	USP49	ubiquitin specific peptidase 49	-0.879	4.467	Down
9477	MED20	mediator complex subunit 20	-1.409	9.912	Down
705	BYSL	bystin like	-2.825	23.371	Down
55173	MRPS10	mitochondrial ribosomal protein S10	-0.53	1.445	Down
88745	RRP36	ribosomal RNA processing 36	-0.661	4.008	Down
6722	SRF	serum response factor	-1.046	5.59	Down
10591	DNPH1	2'-deoxynucleoside 5'-phosphate N-hydrolase 1	-0.978	1.945	Down

84630	TTBK1	tau tubulin kinase 1	-4.996	3.245	Down
93643	TJAP1	tight junction associated protein 1	-0.403	1.455	Down
9533	POLR1C	RNA polymerase I and III subunit C	-0.919	4.166	Down
57510	XPO5	exportin 5	-1.068	8.199	Down
221421	RSPH9	radial spoke head component 9	-0.674	1.922	Down
55168	MRPS18A	mitochondrial ribosomal protein S18A	-0.733	2.492	Down
7422	VEGFA	vascular endothelial growth factor A	-1.246	1.797	Down
64928	MRPL14	mitochondrial ribosomal protein L14	-1.375	4.824	Down
55362	TMEM63B	transmembrane protein 63B	-1.012	2.233	Down
2030	SLC29A1	solute carrier family 29 member 1 (Augustine blood group)	-2.955	20.333	Down
3326	HSP90AB1	heat shock protein 90 alpha family class B member 1	-1.663	17.204	Down
347734	SLC35B2	solute carrier family 35 member B2	-0.617	1.977	Down
4794	NFKBIE	NFKB inhibitor epsilon	-1.469	5.236	Down
988	CDC5L	cell division cycle 5 like	-0.374	2.187	Down
8464	SUPT3H	SPT3 homolog, SAGA and STAGA complex component	-0.501	1.387	Down
22875	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4	-0.54	1.802	Down
10231	RCAN2	regulator of calcineurin 2	-2.26	1.444	Down
23607	CD2AP	CD2 associated protein	-0.43	1.948	Down
3605	IL17A	interleukin 17A	-5.664	3.663	Down
112744	IL17F	interleukin 17F	-8.569	3.401	Down
2941	GSTA4	glutathione S-transferase alpha 4	-2.287	2.806	Down
9532	BAG2	BAG cochaperone 2	-0.696	2.26	Down
5558	PRIM2	DNA primase subunit 2	-0.687	2.57	Down
7803	PTP4A1	protein tyrosine phosphatase 4A1	-0.455	1.703	Down
115004	CGAS	cyclic GMP-AMP synthase	-1.696	3.389	Down
1347	COX7A2	cytochrome c oxidase subunit 7A2	-0.655	1.383	Down
7272	TTK	TTK protein kinase	-1.441	2.281	Down

51167	CYB5R4	cytochrome b5 reductase 4	-0.351	2.345	Down
10492	SYNCRIP	synaptotagmin binding cytoplasmic RNA interacting protein	-0.879	3.833	Down
29078	NDUFAF4	NADH:ubiquinone oxidoreductase complex assembly factor 4	-0.929	2.515	Down
51805	COQ3	coenzyme Q3, methyltransferase	-0.998	4.981	Down
892	CCNC	cyclin C	-0.791	2.421	Down
10973	ASCC3	activating signal cointegrator 1 complex subunit 3	-0.921	5.914	Down
639	PRDM1	PR/SET domain 1	-1.252	2.927	Down
57673	BEND3	BEN domain containing 3	-1.398	5.734	Down
6610	SMPD2	sphingomyelin phosphodiesterase 2	-0.668	2.517	Down
262	AMD1	adenosylmethionine decarboxylase 1	-1.227	10.396	Down
112495	GTF3C6	general transcription factor IIIC subunit 6	-1.214	10.794	Down
84154	RPF2	ribosome production factor 2 homolog	-1.119	2.662	Down
3066	HDAC2	histone deacetylase 2	-0.702	3.186	Down
728402	TPI1P3	triosephosphate isomerase 1 pseudogene 3	-1.451	1.637	Down
221302	ZUP1	zinc finger containing ubiquitin peptidase 1	-0.689	2.563	Down
116150	NUS1	NUS1 dehydrodolichyl diphosphate synthase subunit	-0.932	4.723	Down
4121	MAN1A1	mannosidase alpha class 1A member 1	-0.634	2.833	Down
387103	CENPW	centromere protein W	-1.572	3.07	Down
55862	ECHDC1	ethylmalonyl-CoA decarboxylase 1	-0.742	5.51	Down
114801	TMEM200A	transmembrane protein 200A	-2.055	2.453	Down
2037	EPB41L2	erythrocyte membrane protein band 4.1 like 2	-1.035	2.825	Down
5169	ENPP3	ectonucleotide pyrophosphatase/phosphodiesterase 3	-1.73	1.38	Down
6446	SGK1	serum/glucocorticoid regulated kinase 1	-2.964	16.177	Down
10767	HBS1L	HBS1 like translational GTPase	-0.731	4.302	Down
4602	MYB	MYB proto-oncogene, transcription factor	-1.76	4.074	Down
1.05E+08	LOC105378011	uncharacterized LOC105378011	-1.752	2.032	Down
7128	TNFAIP3	TNF alpha induced protein 3	-0.942	2.448	Down

1.08E+08	HIVEP2-DT	HIVEP2 divergent transcript	-1.131	3.042	Down
84946	LTV1	LTV1 ribosome biogenesis factor	-0.82	5.119	Down
5325	PLAGL1	PLAG1 like zinc finger 1	-1.218	4.564	Down
8676	STX11	syntaxin 11	-1.768	3.219	Down
1.05E+08	UST-AS2	UST antisense RNA 2	-4.703	9.309	Down
1.05E+08	LOC105378046		-2.614	1.652	Down
340152	ZC3H12D	zinc finger CCCH-type containing 12D	-2.429	1.921	Down
348995	NUP43	nucleoporin 43	-0.463	2.202	Down
80328	ULBP2	UL16 binding protein 2	-3.944	8.565	Down
80329	ULBP1	UL16 binding protein 1	-4.181	3.954	Down
646024	RAET1K	retinoic acid early transcript 1K pseudogene	-2.604	3.357	Down
25902	MTHFD1L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like	-1.519	3.94	Down
54516	MTRF1L	mitochondrial translation release factor 1 like	-0.7	2.281	Down
154043	CNKSR3	CNKSR family member 3	-2.322	2.188	Down
26230	TIAM2	TIAM Rac1 associated GEF 2	-1.518	3.569	Down
51106	TFB1M	transcription factor B1, mitochondrial	-0.539	1.546	Down
404672	GTF2H5	general transcription factor IIH subunit 5	-0.425	1.354	Down
6993	DYNLT1	dynein light chain Tctex-type 1	-1.006	1.888	Down
7430	EZR	ezrin	-0.642	2.31	Down
1.01E+08	EZR-AS1	EZR antisense RNA 1	-0.941	2.299	Down
1.05E+08	TAGAP-AS1	TAGAP antisense RNA 1	-0.821	2.329	Down
117289	TAGAP	T cell activation RhoGTPase activating protein	-0.899	2.493	Down
39	ACAT2	acetyl-CoA acetyltransferase 2	-1.031	4.799	Down
6950	TCP1	t-complex 1	-1.091	12	Down
113402	SFT2D1	SFT2 domain containing 1	-0.608	1.537	Down
11116	CEP43	centrosomal protein 43	-0.805	2.728	Down
1235	CCR6	C-C motif chemokine receptor 6	-0.937	1.546	Down

5689	PSMB1	proteasome 20S subunit beta 1	-1.16	6.696	Down
1.02E+08	PRKAR1B-AS1	PRKAR1B antisense RNA 1	-1.726	6.946	Down
54919	DNAAF5	dynein axonemal assembly factor 5	-0.546	2.599	Down
11033	ADAP1	ArfGAP with dual PH domains 1	-1.607	10.43	Down
84310	C7orf50	chromosome 7 open reading frame 50	-0.775	1.361	Down
84262	PSMG3	proteasome assembly chaperone 3	-0.643	1.762	Down
8662	EIF3B	eukaryotic translation initiation factor 3 subunit B	-0.695	3.615	Down
60	ACTB	actin beta	-1.485	6.827	Down
51622	CCZ1	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated	-0.647	2.424	Down
1.08E+08	LOC107986694		-0.692	2.658	Down
7965	AIMP2	aminoacyl tRNA synthetase complex interacting multifunctional protein 2	-1.232	8.885	Down
221960	CCZ1B	CCZ1 homolog B, vacuolar protein trafficking and biogenesis associated	-0.685	12.662	Down
1.08E+08	LOC107986696		-0.708	2.855	Down
56913	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1	-0.523	1.398	Down
54468	MIOS	meiosis regulator for oocyte development	-0.943	4.028	Down
79150	MGC4859	uncharacterized LOC79150	-1.065	3.091	Down
196	AHR	aryl hydrocarbon receptor	-1.276	3.432	Down
7291	TWIST1	twist family bHLH transcription factor 1	-2.259	2.215	Down
221830	POLR1F	RNA polymerase I subunit F	-0.974	6.2	Down
3569	IL6	interleukin 6	-4.917	1.711	Down
84668	HYCC1	hyccin PI4KA lipid kinase complex subunit 1	-0.83	2.268	Down
115416	MALSU1	mitochondrial assembly of ribosomal large subunit 1	-0.589	1.704	Down
29896	TRA2A	transformer 2 alpha homolog	-0.467	1.623	Down
54205	CYCS	cytochrome c, somatic	-1.664	17.204	Down
9603	NFE2L3	NFE2 like bZIP transcription factor 3	-2.591	24.361	Down
3181	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	-1.277	13.797	Down
29887	SNX10	sorting nexin 10	-2.5	13.625	Down

1.05E+08	SNX10-AS1	SNX10 antisense RNA 1	-2.438	9.133	Down
2617	GARS1	glycyl-tRNA synthetase 1	-1.618	6.644	Down
83930	STARD3NL	STARD3 N-terminal like	-0.884	2.919	Down
5683	PSMA2	proteasome 20S subunit alpha 2	-1.207	5.708	Down
644	BLVRA	biliverdin reductase A	-0.804	2.237	Down
5425	POLD2	DNA polymerase delta 2, accessory subunit	-1.188	6.795	Down
10652	YKT6	YKT6 v-SNARE homolog	-0.399	2.26	Down
54606	DDX56	DEAD-box helicase 56	-0.823	4.891	Down
4967	OGDH	oxoglutarate dehydrogenase	-0.475	2.513	Down
83637	ZMIZ2	zinc finger MIZ-type containing 2	-0.99	2.037	Down
5478	PPIA	peptidylprolyl isomerase A	-0.772	1.956	Down
5814	PURB	purine rich element binding protein B	-0.613	2.032	Down
64005	MYO1G	myosin IG	-1.584	5.792	Down
285958	SNHG15	small nucleolar RNA host gene 15	-0.644	1.917	Down
9238	TBRG4	transforming growth factor beta regulator 4	-0.395	1.695	Down
23480	SEC61G	SEC61 translocon subunit gamma	-1.118	3.854	Down
55915	LANCL2	LanC like glutathione S-transferase 2	-0.728	4.198	Down
51373	MRPS17	mitochondrial ribosomal protein S17	-0.62	1.87	Down
5723	PSPH	phosphoserine phosphatase	-1.443	4.102	Down
908	CCT6A	chaperonin containing TCP1 subunit 6A	-1.218	11.207	Down
51142	CHCHD2	coiled-coil-helix-coiled-coil-helix domain containing 2	-0.898	1.819	Down
649395	YWHAEP1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon pseudogene 1	-1.189	2.781	Down
8460	TPST1	tyrosylprotein sulfotransferase 1	-1.232	1.65	Down
51119	SBDS	SBDS ribosome maturation factor	-0.371	1.455	Down
114049	BUD23	BUD23 rRNA methyltransferase and ribosome maturation factor	-0.566	1.596	Down
7458	EIF4H	eukaryotic translation initiation factor 4H	-0.52	3.049	Down

83862	TMEM120A	transmembrane protein 120A	-1.151	3.117	Down
4191	MDH2	malate dehydrogenase 2	-0.516	2.598	Down
3315	HSPB1	heat shock protein family B (small) member 1	-1.435	10.219	Down
7532	YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma	-1.085	8.104	Down
57157	PHTF2	putative homeodomain transcription factor 2	-0.562	1.915	Down
6717	SRI	sorcin	-0.792	6.301	Down
1.03E+08	SRI-AS1	SRI antisense RNA 1	-0.727	1.957	Down
1595	CYP51A1	cytochrome P450 family 51 subfamily A member 1	-1.844	14.173	Down
1021	CDK6	cyclin dependent kinase 6	-1.957	7.64	Down
1.02E+08	CDK6-AS1	CDK6 antisense RNA 1	-1.771	1.794	Down
219285	SAMD9L	sterile alpha motif domain containing 9 like	-1.479	2.002	Down
7979	SEM1	SEM1 26S proteasome subunit	-0.7	3.116	Down
440	ASNS	asparagine synthetase (glutamine-hydrolyzing)	-2.385	14.626	Down
1.08E+08	CZ1P-ASNS	CZ1P-ASNS readthrough	-2.344	14.608	Down
389538	CCZ1P-OR7E38P	CCZ1P-OR7E38P readthrough	-1.016	4.215	Down
168620	BHLHA15	basic helix-loop-helix family member a15	-3.125	1.869	Down
55971	BAIAP2L1	BAR/IMD domain containing adaptor protein 2 like 1	-2.171	4.548	Down
4885	NPTX2	neuronal pentraxin 2	-4.071	2.333	Down
10095	ARPC1B	actin related protein 2/3 complex subunit 1B	-0.822	3.231	Down
11333	PDAP1	PDGFA associated protein 1	-0.798	5.272	Down
8896	BUD31	BUD31 homolog	-0.666	1.686	Down
1.01E+08	ATP5MF-PTCD1	ATP5MF-PTCD1 readthrough	-0.716	2.749	Down
26024	PTCD1	pentatricopeptide repeat domain 1	-0.498	2.23	Down
10898	CPSF4	cleavage and polyadenylation specific factor 4	-0.45	1.741	Down
9551	ATP5MF	ATP synthase membrane subunit f	-0.915	2.065	Down
10980	COPS6	COP9 signalosome subunit 6	-0.767	2.321	Down
4176	MCM7	minichromosome maintenance complex component 7	-0.582	1.978	Down

5379	PMS2P1	PMS1 homolog 2, mismatch repair system component pseudogene 1	-0.499	1.803	Down
3268	AGFG2	ArfGAP with FG repeats 2	-0.449	1.562	Down
10248	POP7	POP7 homolog, ribonuclease P/MRP subunit	-0.814	4.778	Down
7205	TRIP6	thyroid hormone receptor interactor 6	-0.928	3.359	Down
51593	SRRT	serrate, RNA effector molecule	-1.44	7.234	Down
1174	AP1S1	adaptor related protein complex 1 subunit sigma 1	-1.39	3.83	Down
80228	ORAI2	ORAI calcium release-activated calcium modulator 2	-0.769	7.64	Down
222229	LRWD1	leucine rich repeats and WD repeat domain containing 1	-0.728	4.27	Down
27000	DNAJC2	DnaJ heat shock protein family (Hsp40) member C2	-0.767	1.926	Down
5701	PSMC2	proteasome 26S subunit, ATPase 2	-1.074	8.101	Down
54517	PUS7	pseudouridine synthase 7	-1.274	6.393	Down
10135	NAMPT	nicotinamide phosphoribosyltransferase	-2.031	12.502	Down
168455	CCDC71L	coiled-coil domain containing 71 like	-1.191	11.707	Down
1.15E+08	DUS4L-BCAP29	DUS4L-BCAP29 readthrough	-0.584	2.492	Down
55973	BCAP29	B cell receptor associated protein 29	-0.748	3.536	Down
5172	SLC26A4	solute carrier family 26 member 4	-2.426	1.643	Down
1738	DLD	dihydrolipoamide dehydrogenase	-1.12	9.566	Down
3475	IFRD1	interferon related developmental regulator 1	-0.534	2.173	Down
7982	ST7	suppression of tumorigenicity 7	-0.902	3.435	Down
4698	NDUFA5	NADH:ubiquinone oxidoreductase subunit A5	-0.498	1.394	Down
27044	SND1	staphylococcal nuclease and tudor domain containing 1	-0.622	2.612	Down
29923	HILPDA	hypoxia inducible lipid droplet associated	-1.326	4.713	Down
55798	METTL2B	methyltransferase 2B, methylcytidine	-0.993	5.058	Down
813	CALU	calumenin	-0.479	2.379	Down
3663	IRF5	interferon regulatory factor 5	-0.86	1.41	Down
286016	TPI1P2	triosephosphate isomerase 1 pseudogene 2	-1.195	1.849	Down
57464	STRIP2	striatin interacting protein 2	-2.497	2.498	Down

51530	ZC3HC1	zinc finger C3HC-type containing 1	-0.491	1.326	Down
378805	LINC-PINT	long intergenic non-protein coding RNA, p53 induced transcript	-0.447	1.562	Down
54927	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3	-0.689	4.183	Down
84912	SLC35B4	solute carrier family 35 member B4	-0.795	2.911	Down
23165	NUP205	nucleoporin 205	-0.582	1.561	Down
92092	ZC3HAV1L	zinc finger CCCH-type containing, antiviral 1 like	-2.126	9.847	Down
1.08E+08	LOC107986852	uncharacterized LOC107986852	-1.908	1.429	Down
79989	TTC26	tetratricopeptide repeat domain 26	-1.458	6.353	Down
64761	PARP12	poly(ADP-ribose) polymerase family member 12	-1.193	3.177	Down
84255	SLC37A3	solute carrier family 37 member 3	-1.859	8.422	Down
401409	RAB19	RAB19, member RAS oncogene family	-2.697	11.397	Down
1E+08	NDUFB2-AS1	NDUFB2 antisense RNA 1	-0.634	1.637	Down
4708	NDUFB2	NADH:ubiquinone oxidoreductase subunit B2	-0.78	2.23	Down
1.01E+08	TMEM178B	transmembrane protein 178B	-1.303	1.538	Down
6742	SSBP1	single stranded DNA binding protein 1	-0.995	4.639	Down
135932	TMEM139	transmembrane protein 139	-2.66	2.557	Down
154761	LOC154761	family with sequence similarity 115, member C pseudogene	-0.339	1.314	Down
2146	EZH2	enhancer of zeste 2 polycomb repressive complex 2 subunit	-1.934	7.115	Down
653857	ACTR3C	actin related protein 3C	-0.999	1.541	Down
113763	ZBED10P	zinc finger BED-type containing 10, pseudogene	-0.717	2.455	Down
1.14E+08	ABCF2-H2BK1	ABCF2-H2BK1 readthrough	-1.123	7.293	Down
10061	ABCF2	ATP binding cassette subfamily F member 2	-1.272	9.263	Down
54480	CHPF2	chondroitin polymerizing factor 2	-0.481	2.247	Down
3638	INSIG1	insulin induced gene 1	-0.835	3.006	Down
9690	UBE3C	ubiquitin protein ligase E3C	-0.686	4.295	Down
10049	DNAJB6	DnaJ heat shock protein family (Hsp40) member B6	-0.532	3.679	Down
1.05E+08	LOC105375615	uncharacterized LOC105375615	-1.41	2.357	Down

90459	ERI1	exoribonuclease 1	-0.622	3.116	Down
54984	PINX1	PIN2 (TERF1) interacting telomerase inhibitor 1	-0.673	2.083	Down
83648	FAM167A	family with sequence similarity 167 member A	-1.645	2.946	Down
2222	FDFT1	farnesyl-diphosphate farnesyltransferase 1	-0.849	10.45	Down
91694	LONRF1	LON peptidase N-terminal domain and ring finger 1	-0.813	2.177	Down
10395	DLC1	DLC1 Rho GTPase activating protein	-2.303	2.618	Down
63898	SH2D4A	SH2 domain containing 4A	-1.235	2.048	Down
9046	DOK2	docking protein 2	-0.587	2.929	Down
2039	DMTN	dematin actin binding protein	-1.508	8.684	Down
661	POLR3D	RNA polymerase III subunit D	-0.65	3.365	Down
23516	SLC39A14	solute carrier family 39 member 14	-1.827	17.318	Down
1.08E+08	LOC107986924	uncharacterized LOC107986924	-7.241	17.64	Down
1960	EGR3	early growth response 3	-7.401	40.193	Down
4824	NKX3-1	NK3 homeobox 1	-0.914	1.772	Down
2137	EXTL3	exostosin like glycosyltransferase 3	-0.457	1.986	Down
55756	INTS9	integrator complex subunit 9	-0.746	3.452	Down
1846	DUSP4	dual specificity phosphatase 4	-2.547	10.64	Down
2936	GSR	glutathione-disulfide reductase	-0.829	11.047	Down
7993	UBXN8	UBX domain protein 8	-1.029	1.884	Down
84549	MAK16	MAK16 homolog	-0.884	3.246	Down
80185	TTI2	TELO2 interacting protein 2	-0.734	2.678	Down
80223	RAB11FIP1	RAB11 family interacting protein 1	-1.324	3.014	Down
1978	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	-1.314	4.445	Down
27257	LSM1	LSM1 homolog, mRNA degradation associated	-0.599	2.064	Down
137964	GPAT4	glycerol-3-phosphate acyltransferase 4	-0.446	2.365	Down
5327	PLAT	plasminogen activator, tissue type	-2.365	4.17	Down
5423	POLB	DNA polymerase beta	-0.739	1.711	Down

7419	VDAC3	voltage dependent anion channel 3	-1.001	4.617	Down
8973	CHRNA6	cholinergic receptor nicotinic alpha 6 subunit	-3.535	6.864	Down
4173	MCM4	minichromosome maintenance complex component 4	-1.5	5.342	Down
10434	LYPLA1	lysophospholipase 1	-1.078	4.639	Down
29088	MRPL15	mitochondrial ribosomal protein L15	-0.741	2.563	Down
96764	TGS1	trimethylguanosine synthase 1	-0.579	2.3	Down
54928	BPNT2	3'(2'), 5'-bisphosphate nucleotidase 2	-0.904	7.17	Down
9420	CYP7B1	cytochrome P450 family 7 subfamily B member 1	-2.948	3.126	Down
23212	RRS1	ribosome biogenesis regulator 1 homolog	-0.782	3.352	Down
51110	LACTB2	lactamase beta 2	-0.829	1.885	Down
9242	MSC	musculin	-1.118	1.31	Down
27067	STAU2	staufen double-stranded RNA binding protein 2	-0.384	2.466	Down
55284	UBE2W	ubiquitin conjugating enzyme E2 W	-0.53	1.602	Down
6921	ELOC	elongin C	-0.878	4.827	Down
51101	ZC2HC1A	zinc finger C2HC-type containing 1A	-1.035	2.265	Down
28957	MRPS28	mitochondrial ribosomal protein S28	-1.253	5.057	Down
3612	IMPA1	inositol monophosphatase 1	-0.751	3.308	Down
8767	RIPK2	receptor interacting serine/threonine kinase 2	-0.922	1.794	Down
734	OSGIN2	oxidative stress induced growth inhibitor family member 2	-0.497	2.264	Down
4683	NBN	nibrin	-0.97	5.27	Down
169200	TMEM64	transmembrane protein 64	-1.199	8.202	Down
1E+08	C8orf88	chromosome 8 open reading frame 88	-1.259	1.448	Down
51633	OTUD6B	OTU deubiquitinase 6B	-1.386	6.934	Down
51001	MTERF3	mitochondrial transcription termination factor 3	-0.471	1.607	Down
55353	LAPTM4B	lysosomal protein transmembrane 4 beta	-0.863	1.704	Down
10940	POP1	POP1 homolog, ribonuclease P/MRP subunit	-1.248	4.747	Down
6788	STK3	serine/threonine kinase 3	-1.047	5.35	Down

5440	POLR2K	RNA polymerase II, I and III subunit K	-0.888	2.545	Down
6674	SPAG1	sperm associated antigen 1	-2.14	12.627	Down
25897	RNF19A	ring finger protein 19A, RBR E3 ubiquitin protein ligase	-0.78	3.878	Down
51123	ZNF706	zinc finger protein 706	-0.446	1.432	Down
81034	SLC25A32	solute carrier family 25 member 32	-0.895	7.327	Down
25879	DCAF13	DDB1 and CUL4 associated factor 13	-1.177	5.372	Down
29967	LRP12	LDL receptor related protein 12	-0.887	2.582	Down
84955	NUDCD1	NudC domain containing 1	-1.536	11.239	Down
79075	DSCC1	DNA replication and sister chromatid cohesion 1	-2.043	3.436	Down
28998	MRPL13	mitochondrial ribosomal protein L13	-1.33	6.553	Down
3037	HAS2	hyaluronan synthase 2	-6.989	4.297	Down
157769	FAM91A1	family with sequence similarity 91 member A1	-0.585	4.27	Down
6713	SQLE	squalene epoxidase	-1.736	16.739	Down
51571	CYRIB	CYFIP related Rac1 interactor B	-0.595	2.738	Down
51105	PHF20L1	PHD finger protein 20 like 1	-0.992	3.23	Down
54108	CHRAC1	chromatin accessibility complex subunit 1	-0.545	1.842	Down
11156	PTP4A3	protein tyrosine phosphatase 4A3	-1.157	5.537	Down
4061	LY6E	lymphocyte antigen 6 family member E	-0.879	3.191	Down
79792	GSDMD	gasdermin D	-0.82	2.303	Down
65263	PYCR3	pyrroline-5-carboxylate reductase 3	-1.15	4.229	Down
7264	GFUS	GDP-L-fucose synthase	-1.447	8.709	Down
286077	FAM83H	family with sequence similarity 83 member H	-0.932	2.036	Down
22827	PUF60	poly(U) binding splicing factor 60	-0.74	4.246	Down
26873	OPLAH	5-oxoprolinase, ATP-hydrolysing	-1.973	3.024	Down
54512	EXOSC4	exosome component 4	-1.454	5.748	Down
8733	GPAA1	glycosylphosphatidylinositol anchor attachment 1	-0.66	2.622	Down
1537	CYC1	cytochrome c1	-1.109	4.247	Down

23246	BOP1	BOP1 ribosomal biogenesis factor	-1.673	11.528	Down
642658	SCX	scleraxis bHLH transcription factor	-0.94	1.682	Down
26233	FBXL6	F-box and leucine rich repeat protein 6	-0.977	2.731	Down
79581	SLC52A2	solute carrier family 52 member 2	-0.816	4.51	Down
4796	TONSL	tonsoku like, DNA repair protein	-1.169	2.545	Down
28991	COMMD5	COMM domain containing 5	-0.612	1.632	Down
65265	C8orf33	chromosome 8 open reading frame 33	-0.707	4.474	Down
55871	ZNG1A	Zn regulated GTPase metalloprotein activator 1A	-1.183	7.327	Down
7436	VLDLR	very low density lipoprotein receptor	-2.201	3.577	Down
9933	PUM3	pumilio RNA binding family member 3	-1.385	15.546	Down
29126	CD274	CD274 molecule	-1.985	4.498	Down
80380	PDCD1LG2	programmed cell death 1 ligand 2	-2.01	1.321	Down
2731	GLDC	glycine decarboxylase	-3.59	3.891	Down
340481	ZDHHC21	zinc finger DHHC-type palmitoyltransferase 21	-1.065	2.443	Down
54801	HAUS6	HAUS augmin like complex subunit 6	-0.429	2.065	Down
1030	CDKN2B	cyclin dependent kinase inhibitor 2B	-2.225	2.457	Down
79886	CAAP1	caspase activity and apoptosis inhibitor 1	-0.816	4.197	Down
9373	PLAA	phospholipase A2 activating protein	-0.657	3.91	Down
48	ACO1	aconitase 1	-0.485	1.442	Down
3301	DNAJA1	DnaJ heat shock protein family (Hsp40) member A1	-2.038	27.738	Down
65083	NOL6	nucleolar protein 6	-0.915	5.188	Down
203259	FAM219A	family with sequence similarity 219 member A	-0.884	3.642	Down
10280	SIGMAR1	sigma non-opioid intracellular receptor 1	-0.29	1.946	Down
7415	VCP	valosin containing protein	-1.313	27.401	Down
30968	STOML2	stomatin like 2	-1.129	4.729	Down
10020	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	-0.351	2.371	Down
9833	MELK	maternal embryonic leucine zipper kinase	-1.769	1.552	Down

51010	EXOSC3	exosome component 3	-0.75	5.381	Down
219	ALDH1B1	aldehyde dehydrogenase 1 family member B1	-1.099	9.437	Down
644019	ZNG1F	Zn regulated GTPase metalloprotein activator 1F	-1.018	3.894	Down
220869	ZNG1E	Zn regulated GTPase metalloprotein activator 1E	-0.789	2.024	Down
445571	ZNG1C	Zn regulated GTPase metalloprotein activator 1C	-1.126	6.662	Down
2395	FXN	frataxin	-0.603	2.861	Down
26578	OSTF1	osteoclast stimulating factor 1	-0.677	2.745	Down
55312	RFK	riboflavin kinase	-0.641	2.939	Down
2650	GCNT1	glucosaminyl (N-acetyl) transferase 1	-1.264	7.099	Down
29968	PSAT1	phosphoserine aminotransferase 1	-3.41	10.053	Down
29979	UBQLN1	ubiquilin 1	-0.247	1.711	Down
84267	C9orf64	chromosome 9 open reading frame 64	-0.812	4.805	Down
3190	HNRNPK	heterogeneous nuclear ribonucleoprotein K	-0.429	2.371	Down
4915	NTRK2	neurotrophic receptor tyrosine kinase 2	-1.969	1.46	Down
1164	CKS2	CDC28 protein kinase regulatory subunit 2	-1.912	20.14	Down
10912	GADD45G	growth arrest and DNA damage inducible gamma	-1.369	2.202	Down
1E+08	LINC03062	long intergenic non-protein coding RNA 3062	-5.116	9.983	Down
1.05E+08	LOC105376140	uncharacterized LOC105376140	-4.795	2.435	Down
549	AUH	AU RNA binding methylglutaconyl-CoA hydratase	-0.81	2.255	Down
4783	NFIL3	nuclear factor, interleukin 3 regulated	-1.816	5.749	Down
1.12E+08	LOC112268048	uncharacterized LOC112268048	-1.72	6.276	Down
3376	IARS1	isoleucyl-tRNA synthetase 1	-1.654	12.479	Down
401541	CENPP	centromere protein P	-0.453	1.475	Down
64768	IPPK	inositol-pentakisphosphate 2-kinase	-0.782	4.539	Down
4814	NINJ1	ninjurin 1	-1.219	6.128	Down
65268	WNK2	WNK lysine deficient protein kinase 2	-6.41	4.834	Down
138639	PTPDC1	protein tyrosine phosphatase domain containing 1	-0.656	1.869	Down

2176	FANCC	FA complementation group C	-1.066	4.361	Down
23424	TDRD7	tudor domain containing 7	-0.703	1.736	Down
4686	NCBP1	nuclear cap binding protein subunit 1	-0.71	4.289	Down
54187	NANS	N-acetylneuraminate synthase	-0.551	1.937	Down
10952	SEC61B	SEC61 translocon subunit beta	-1.101	3.128	Down
23071	ERP44	endoplasmic reticulum protein 44	-0.457	1.604	Down
2218	FKTN	fukutin	-0.537	1.474	Down
5887	RAD23B	RAD23 homolog B, nucleotide excision repair protein	-0.65	6.136	Down
8727	CTNNAL1	catenin alpha like 1	-0.556	1.425	Down
7295	TXN	thioredoxin	-2.363	3.966	Down
79987	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	-4.85	1.913	Down
23392	ECPAS	Ecm29 proteasome adaptor and scaffold	-0.617	2.025	Down
1317	SLC31A1	solute carrier family 31 member 1	-0.494	1.841	Down
5998	RGS3	regulator of G protein signaling 3	-1.598	8.685	Down
85301	COL27A1	collagen type XXVII alpha 1 chain	-2.085	3.186	Down
5711	PSMD5	proteasome 26S subunit, non-ATPase 5	-0.352	2.068	Down
7185	TRAF1	TNF receptor associated factor 1	-1.516	2.699	Down
2681	GGTA1	glycoprotein alpha-galactosyltransferase 1 (inactive)	-2.218	1.602	Down
92399	MRRF	mitochondrial ribosome recycling factor	-0.569	4.862	Down
55342	STRBP	spermatid perinuclear RNA binding protein	-0.346	1.316	Down
5695	PSMB7	proteasome 20S subunit beta 7	-0.734	1.64	Down
2649	NR6A1	nuclear receptor subfamily 6 group A member 1	-2.003	2.471	Down
81873	ARPC5L	actin related protein 2/3 complex subunit 5 like	-0.836	5.437	Down
3309	HSPA5	heat shock protein family A (Hsp70) member 5	-0.985	6.494	Down
138428	PTRH1	peptidyl-tRNA hydrolase 1 homolog	-1.01	4.127	Down
286207	CFAP157	cilia and flagella associated protein 157	-1.063	4.676	Down
2356	FPGS	folylpolyglutamate synthase	-1.144	16.359	Down

8818	DPM2	dolichyl-phosphate mannosyltransferase subunit 2, regulatory	-1.041	7.889	Down
80142	PTGES2	prostaglandin E synthase 2	-0.842	6.056	Down
26995	TRUB2	TruB pseudouridine synthase family member 2	-0.829	3.696	Down
51117	COQ4	coenzyme Q4	-0.442	1.449	Down
10999	SLC27A4	solute carrier family 27 member 4	-1.172	11.329	Down
51148	CERCAM	cerebral endothelial cell adhesion molecule	-1.141	1.401	Down
6418	SET	SET nuclear proto-oncogene	-0.411	2.104	Down
29941	PKN3	protein kinase N3	-0.795	2.194	Down
23511	NUP188	nucleoporin 188	-1.165	8.453	Down
1.02E+08	LOC101929314	uncharacterized LOC101929314	-1.063	5.148	Down
57171	DOLPP1	dolichyldiphosphatase 1	-0.61	3.405	Down
23048	FNBP1	formin binding protein 1	-0.41	1.303	Down
23413	NCS1	neuronal calcium sensor 1	-2.357	4.503	Down
23404	EXOSC2	exosome component 2	-0.483	3.364	Down
9442	MED27	mediator complex subunit 27	-0.997	8.317	Down
6837	MED22	mediator complex subunit 22	-0.352	1.316	Down
6836	SURF4	surfeit 4	-0.834	6.059	Down
11182	SLC2A6	solute carrier family 2 member 6	-1.328	1.372	Down
11091	WDR5	WD repeat domain 5	-0.326	1.437	Down
6256	RXRA	retinoid X receptor alpha	-0.758	4.126	Down
51116	MRPS2	mitochondrial ribosomal protein S2	-0.332	1.528	Down
23203	PMPCA	peptidase, mitochondrial processing subunit alpha	-0.598	2.946	Down
10555	AGPAT2	1-acylglycerol-3-phosphate O-acyltransferase 2	-0.823	3.472	Down
414332	LCN10	lipocalin 10	-2.092	2.721	Down
85014	TMEM141	transmembrane protein 141	-0.62	1.389	Down
29085	PHPT1	phosphohistidine phosphatase 1	-1.746	5.92	Down
7186	TRAF2	TNF receptor associated factor 2	-1.149	9.569	Down

954	ENTPD2	ectonucleoside triphosphate diphosphohydrolase 2	-4.546	1.634	Down
89958	SAPCD2	suppressor APC domain containing 2	-2.138	4.998	Down
727800	RNF208	ring finger protein 208	-1.358	2.36	Down
10383	TUBB4B	tubulin beta 4B class IVb	-1.653	10.946	Down
401565	FAM166A	family with sequence similarity 166 member A	-1.611	7.095	Down
441478	NRARP	NOTCH regulated ankyrin repeat protein	-1.593	2.29	Down
23560	GTPBP4	GTP binding protein 4	-1.178	10.424	Down
55853	IDI2-AS1	IDI2 antisense RNA 1	-1.352	4.614	Down
3422	IDI1	isopentenyl-diphosphate delta isomerase 1	-1.188	12.277	Down
10531	PITRM1	pitrilysin metallopeptidase 1	-1.504	5.818	Down
1.01E+08	PITRM1-AS1	PITRM1 antisense RNA 1	-1.262	3.862	Down
1.05E+08	LOC105376361	uncharacterized LOC105376361	-3.127	1.66	Down
1.05E+08	LOC105376367	uncharacterized LOC105376367	-1.381	2.77	Down
54906	TASOR2	transcription activation suppressor family member 2	-0.245	1.326	Down
3601	IL15RA	interleukin 15 receptor subunit alpha	-1.958	8.032	Down
1.08E+08	LOC107984200	uncharacterized LOC107984200	-1.852	4.065	Down
3559	IL2RA	interleukin 2 receptor subunit alpha	-2.965	3.096	Down
1.08E+08	LOC107984201	uncharacterized LOC107984201	-4.912	32.046	Down
84991	RBM17	RNA binding motif protein 17	-0.765	9.156	Down
509	ATP5F1C	ATP synthase F1 subunit gamma	-1.075	5.165	Down
1.05E+08	LOC105376392	uncharacterized LOC105376392	-1.001	2.198	Down
55176	SEC61A2	SEC61 translocon subunit alpha 2	-0.464	1.639	Down
11164	NUDT5	nudix hydrolase 5	-0.576	1.915	Down
8872	CDC123	cell division cycle 123	-0.708	2.943	Down
55388	MCM10	minichromosome maintenance 10 replication initiation factor	-5.035	6.858	Down
5264	PHYH	phytanoyl-CoA 2-hydroxylase	-0.67	1.324	Down
22929	SEPHS1	selenophosphate synthetase 1	-0.648	3.555	Down

51182	HSPA14	heat shock protein family A (Hsp70) member 14	-0.474	3.021	Down
79723	SUV39H2	SUV39H2 histone lysine methyltransferase	-1.132	6.429	Down
221061	FAM171A1	family with sequence similarity 171 member A1	-0.844	3.797	Down
6251	RSU1	Ras suppressor protein 1	-0.651	2.134	Down
23590	PDSS1	decaprenyl diphosphate synthase subunit 1	-0.889	4.087	Down
283078	MKX	mohawk homeobox	-4.701	3.959	Down
55149	MTPAP	mitochondrial poly(A) polymerase	-0.484	2.557	Down
1326	MAP3K8	mitogen-activated protein kinase kinase kinase 8	-3.842	13.07	Down
1390	CREM	cAMP responsive element modulator	-1.263	3.814	Down
9790	BMS1	BMS1 ribosome biogenesis factor	-0.81	4.19	Down
3185	HNRNPF	heterogeneous nuclear ribonucleoprotein F	-0.476	2.146	Down
10151	HNRNPA3P1	heterogeneous nuclear ribonucleoprotein A3 pseudogene 1	-1.414	5.353	Down
1E+08	TIMM23	translocase of inner mitochondrial membrane 23	-1.453	13.575	Down
170371	TMEM273	transmembrane protein 273	-2.338	3.431	Down
1.01E+08	TIMM23B	translocase of inner mitochondrial membrane 23 homolog B	-1.286	9.091	Down
11130	ZWINT	ZW10 interacting kinetochore protein	-1.904	6.087	Down
55847	CISD1	CDGSH iron sulfur domain 1	-0.984	2.103	Down
7019	TFAM	transcription factor A, mitochondrial	-0.506	1.91	Down
220963	SLC16A9	solute carrier family 16 member 9	-7.015	5.391	Down
8030	CCDC6	coiled-coil domain containing 6	-0.944	5.534	Down
84890	ADO	2-aminoethanethiol dioxygenase	-0.941	2.561	Down
1959	EGR2	early growth response 2	-2.682	5.05	Down
29982	NRBF2	nuclear receptor binding factor 2	-0.457	1.537	Down
1763	DNA2	DNA replication helicase/nuclease 2	-1.346	4.531	Down
9188	DDX21	DExD-box helicase 21	-1.52	15.483	Down
5552	SRGN	serglycin	-1.469	9.427	Down
3098	HK1	hexokinase 1	-0.514	6.844	Down

219738	FAM241B	family with sequence similarity 241 member B	-1.42	4.247	Down
84883	AIFM2	apoptosis inducing factor mitochondria associated 2	-1.37	3.037	Down
5464	PPA1	inorganic pyrophosphatase 1	-0.846	3.675	Down
27143	PALD1	phosphatase domain containing paladin 1	-1.803	1.313	Down
5092	PCBD1	pterin-4 alpha-carbinolamine dehydratase 1	-0.756	3.827	Down
54541	DDIT4	DNA damage inducible transcript 4	-1.222	3.74	Down
54788	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12	-0.667	6.056	Down
11319	ECD	ecdysoneless cell cycle regulator	-0.639	3.038	Down
23234	DNAJC9	DnaJ heat shock protein family (Hsp40) member C9	-0.547	2.069	Down
51021	MRPS16	mitochondrial ribosomal protein S16	-0.587	2.47	Down
310	ANXA7	annexin A7	-0.641	3.586	Down
118487	CHCHD1	coiled-coil-helix-coiled-coil-helix domain containing 1	-0.887	2.853	Down
26985	AP3M1	adaptor related protein complex 3 subunit mu 1	-0.579	1.902	Down
118881	COMTD1	catechol-O-methyltransferase domain containing 1	-1.042	2.563	Down
10105	PPIF	peptidylprolyl isomerase F	-1.269	3.932	Down
143244	EIF5AL1	eukaryotic translation initiation factor 5A like 1	-2.014	22.727	Down
1E+08	LOC100130698	uncharacterized LOC100130698	-2.453	4.868	Down
27069	GHITM	growth hormone inducible transmembrane protein	-0.675	2.388	Down
55328	RNLS	renalase, FAD dependent amine oxidase	-1.1	3.098	Down
355	FAS	Fas cell surface death receptor	-2.355	8.453	Down
3437	IFIT3	interferon induced protein with tetratricopeptide repeats 3	-2.72	2.187	Down
24138	IFIT5	interferon induced protein with tetratricopeptide repeats 5	-0.703	1.64	Down
10556	RPP30	ribonuclease P/MRP subunit p30	-0.645	2.516	Down
143279	HECTD2	HECT domain E3 ubiquitin protein ligase 2	-1.004	2.268	Down
9044	BTAF1	B-TFIID TATA-box binding protein associated factor 1	-0.544	1.683	Down
3416	IDE	insulin degrading enzyme	-0.975	7.069	Down
55165	CEP55	centrosomal protein 55	-1.579	1.967	Down

266971	PIPSL	PIP5K1A and PSMD4 like (pseudogene)	-0.523	1.561	Down
64318	NOC3L	NOC3 like DNA replication regulator	-0.937	7.778	Down
3070	HELLS	helicase, lymphoid specific	-1.99	7.715	Down
5832	ALDH18A1	aldehyde dehydrogenase 18 family member A1	-0.861	3.774	Down
953	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1	-0.387	1.488	Down
23223	RRP12	ribosomal RNA processing 12 homolog	-1.658	8.817	Down
5223	PGAM1	phosphoglycerate mutase 1	-1.716	8.791	Down
51013	EXOSC1	exosome component 1	-0.576	2.129	Down
84287	ZDHHC16	zinc finger DHHC-type palmitoyltransferase 16	-1.316	10.849	Down
2805	GOT1	glutamic-oxaloacetic transaminase 1	-1.318	2.98	Down
57089	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7	-0.652	2.745	Down
1147	CHUK	component of inhibitor of nuclear factor kappa B kinase complex	-0.788	2.77	Down
6319	SCD	stearoyl-CoA desaturase	-2.078	4.612	Down
4714	NDUFB8	NADH:ubiquinone oxidoreductase subunit B8	-0.687	1.434	Down
10360	NPM3	nucleophosmin/nucleoplasmin 3	-1.255	2.444	Down
23082	PPRC1	PPARG related coactivator 1	-0.483	1.46	Down
9221	NOLC1	nucleolar and coiled-body phosphoprotein 1	-0.908	4.792	Down
4791	NFKB2	nuclear factor kappa B subunit 2	-2.269	11.358	Down
79847	MFSD13A	major facilitator superfamily domain containing 13A	-0.411	1.699	Down
10121	ACTR1A	actin related protein 1A	-0.596	3.73	Down
118980	SFXN2	sideroflexin 2	-1.196	5.318	Down
84833	ATP5MK	ATP synthase membrane subunit k	-0.669	1.313	Down
22984	PDCD11	programmed cell death 11	-0.695	1.947	Down
9148	NEURL1	neuralized E3 ubiquitin protein ligase 1	-1.502	4.6	Down
7511	XPNPEP1	X-prolyl aminopeptidase 1	-0.954	2.635	Down
1847	DUSP5	dual specificity phosphatase 5	-3.04	6.414	Down
51703	ACSL5	acyl-CoA synthetase long chain family member 5	-0.852	4.333	Down

64429	ZDHHC6	zinc finger DHHC-type palmitoyltransferase 6	-0.462	2.329	Down
840	CASP7	caspase 7	-1.188	4.518	Down
9937	DCLRE1A	DNA cross-link repair 1A	-0.71	4.304	Down
374354	NHLRC2	NHL repeat containing 2	-0.417	1.432	Down
119559	SFXN4	sideroflexin 4	-1.412	10.798	Down
10935	PRDX3	peroxiredoxin 3	-1.193	7.218	Down
22876	INPP5F	inositol polyphosphate-5-phosphatase F	-0.461	1.598	Down
55717	WDR11	WD repeat domain 11	-0.922	9.324	Down
54780	NSMCE4A	NSE4 homolog A, SMC5-SMC6 complex component	-0.56	2.024	Down
4942	OAT	ornithine aminotransferase	-0.644	3.919	Down
56647	BCCIP	BRCA2 and CDKN1A interacting protein	-0.922	4.318	Down
10539	GLRX3	glutaredoxin 3	-1.158	6.271	Down
282974	STK32C	serine/threonine kinase 32C	-0.971	2.102	Down
101	ADAM8	ADAM metallopeptidase domain 8	-0.832	3.506	Down
118472	ZNF511	zinc finger protein 511	-0.924	3.459	Down
282969	FUOM	fucose mutarotase	-2.154	18.605	Down
1892	ECHS1	enoyl-CoA hydratase, short chain 1	-0.705	4.836	Down
196743	PAOX	polyamine oxidase	-1.024	5.138	Down
92170	MTG1	mitochondrial ribosome associated GTPase 1	-0.831	3.692	Down
5719	PSMD13	proteasome 26S subunit, non-ATPase 13	-1.088	5.611	Down
6050	RNH1	ribonuclease/angiogenin inhibitor 1	-0.606	2.273	Down
1.01E+08	LOC101059906		-1.426	1.475	Down
3265	HRAS	HRas proto-oncogene, GTPase	-0.877	4.533	Down
6888	TALDO1	transaldolase 1	-1.226	4.151	Down
51286	CEND1	cell cycle exit and neuronal differentiation 1	-3.461	2.035	Down
79751	SLC25A22	solute carrier family 25 member 22	-1.589	13.867	Down
5441	POLR2L	RNA polymerase II, I and III subunit L	-1.146	5.016	Down

7106	TSPAN4	tetraspanin 4	-0.777	1.387	Down
66005	CHID1	chitinase domain containing 1	-0.597	1.676	Down
6150	MRPL23	mitochondrial ribosomal protein L23	-0.887	2.125	Down
3481	IGF2	insulin like growth factor 2	-7.34	10.541	Down
723961	INS-IGF2	INS-IGF2 readthrough	-8.431	8.308	Down
430	ASCL2	achaete-scute family bHLH transcription factor 2	-1.089	1.369	Down
975	CD81	CD81 molecule	-0.26	1.332	Down
7262	PHLDA2	pleckstrin homology like domain family A member 2	-2.637	5.13	Down
833	CARS1	cysteinyl-tRNA synthetase 1	-0.913	3.175	Down
1.01E+08	CARS1-AS1	CARS1 antisense RNA 1	-1.009	3.766	Down
6737	TRIM21	tripartite motif containing 21	-1.217	4.375	Down
3611	ILK	integrin linked kinase	-0.64	1.362	Down
63875	MRPL17	mitochondrial ribosomal protein L17	-0.689	1.561	Down
1982	EIF4G2	eukaryotic translation initiation factor 4 gamma 2	-0.515	4.309	Down
374378	GALNT18	polypeptide N-acetylgalactosaminyltransferase 18	-0.749	1.592	Down
283106	CSNK2A3	casein kinase 2 alpha 3	-0.704	3.213	Down
9645	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2	-1.362	2.776	Down
84188	FAR1	fatty acyl-CoA reductase 1	-0.527	2.543	Down
22800	RRAS2	RAS related 2	-1.16	7.095	Down
1315	COPB1	COPI coat complex subunit beta 1	-0.713	3.346	Down
5682	PSMA1	proteasome 20S subunit alpha 1	-1.524	13.829	Down
113174	SAAL1	serum amyloid A like 1	-0.821	3.137	Down
3939	LDHA	lactate dehydrogenase A	-1.367	2.998	Down
7251	TSG101	tumor susceptibility 101	-0.648	1.766	Down
55293	UEVLD	UEV and lactate/malate dehyrogenase domains	-1.614	13.773	Down
1.01E+08	MISFA	mitochondrial sheath formation associated	-0.553	1.391	Down
144108	SPTY2D1	SPT2 chromatin protein domain containing 1	-0.585	2.598	Down

54503	ZDHHC13	zinc finger DHHC-type palmitoyltransferase 13	-0.465	1.936	Down
5954	RCN1	reticulocalbin 1	-1.88	7.754	Down
966	CD59	CD59 molecule (CD59 blood group)	-0.753	3.941	Down
4076	CAPRIN1	cell cycle associated protein 1	-0.552	2.54	Down
55226	NAT10	N-acetyltransferase 10	-0.707	4.275	Down
6506	SLC1A2	solute carrier family 1 member 2	-2.334	1.609	Down
8539	API5	apoptosis inhibitor 5	-0.477	1.559	Down
51144	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12	-0.551	2.377	Down
1.08E+08	LOC107984328	uncharacterized LOC107984328	-0.703	1.571	Down
3732	CD82	CD82 molecule	-1.43	9.191	Down
9537	TP53I11	tumor protein p53 inducible protein 11	-1.467	3.82	Down
4192	MDK	midkine	-1.836	1.993	Down
29763	PACSIN3	protein kinase C and casein kinase substrate in neurons 3	-2.808	7.593	Down
53	ACP2	acid phosphatase 2, lysosomal	-0.972	3.767	Down
5702	PSMC3	proteasome 26S subunit, ATPase 3	-1.261	7.981	Down
23788	MTCH2	mitochondrial carrier 2	-1.053	5.879	Down
6749	SSRP1	structure specific recognition protein 1	-0.633	5.138	Down
5553	PRG2	proteoglycan 2, pro eosinophil major basic protein	-0.975	1.469	Down
1.05E+08	LOC105369312		-3.404	2.491	Down
29015	SLC43A3	solute carrier family 43 member 3	-2.557	38.658	Down
26519	TIMM10	translocase of inner mitochondrial membrane 10	-0.871	1.538	Down
9246	UBE2L6	ubiquitin conjugating enzyme E2 L6	-1.099	3.937	Down
219541	MED19	mediator complex subunit 19	-0.704	1.787	Down
80829	ZFP91	ZFP91 zinc finger protein, atypical E3 ubiquitin ligase	-0.338	1.32	Down
374393	FAM111B	FAM111 trypsin like peptidase B	-2.342	2.437	Down
54948	MRPL16	mitochondrial ribosomal protein L16	-0.498	1.585	Down
79080	CCDC86	coiled-coil domain containing 86	-1.621	11.355	Down

27339	PRPF19	pre-mRNA processing factor 19	-0.561	5.409	Down
1.05E+08	LOC105369325	uncharacterized LOC105369325	-1.834	6.173	Down
220001	VWCE	von Willebrand factor C and EGF domains	-1.839	1.574	Down
1642	DDB1	damage specific DNA binding protein 1	-0.677	2.465	Down
9066	SYT7	synaptotagmin 7	-2.516	1.869	Down
2237	FEN1	flap structure-specific endonuclease 1	-1.054	8.163	Down
80150	ASRGL1	asparaginase and isoaspartyl peptidase 1	-0.997	1.524	Down
9219	MTA2	metastasis associated 1 family member 2	-0.371	2.741	Down
79081	LBHD1	LBH domain containing 1	-0.804	2.617	Down
1.02E+08	C11orf98	chromosome 11 open reading frame 98	-0.877	2.865	Down
10629	TAF6L	TATA-box binding protein associated factor 6 like	-0.388	1.337	Down
54663	WDR74	WD repeat domain 74	-0.42	1.479	Down
6520	SLC3A2	solute carrier family 3 member 2	-1.194	5.507	Down
65998	ZFTA	zinc finger translocation associated	-0.73	1.656	Down
55611	OTUB1	OTU deubiquitinase, ubiquitin aldehyde binding 1	-0.582	2.844	Down
10963	STIP1	stress induced phosphoprotein 1	-2.007	12.632	Down
83706	FERMT3	FERM domain containing kindlin 3	-0.498	2.509	Down
2286	FKBP2	FKBP prolyl isomerase 2	-0.787	3.079	Down
1.15E+08	LOC114841035	Uncharacterized protein LOC114841035	-0.776	2.981	Down
26472	PPP1R14B	protein phosphatase 1 regulatory inhibitor subunit 14B	-1.421	6.1	Down
1.05E+08	PPP1R14B-AS1	PPP1R14B antisense RNA 1	-1.157	1.47	Down
56834	GPR137	G protein-coupled receptor 137	-1.28	11.357	Down
25824	PRDX5	peroxiredoxin 5	-0.665	1.906	Down
283234	CCDC88B	coiled-coil domain containing 88B	-0.952	1.803	Down
1.01E+08	ARL2-SNX15	ARL2-SNX15 readthrough (NMD candidate)	-0.475	2.62	Down
402	ARL2	ADP ribosylation factor like GTPase 2	-0.923	4.097	Down
113130	CDCA5	cell division cycle associated 5	-1.245	5.101	Down

823	CAPN1	calpain 1	-0.271	2.416	Down
23649	POLA2	DNA polymerase alpha 2, accessory subunit	-1.299	7.791	Down
10435	CDC42EP2	CDC42 effector protein 2	-1.303	2.212	Down
10534	ZNRD2	zinc ribbon domain containing 2	-1.367	9.798	Down
254122	SNX32	sorting nexin 32	-0.805	2.644	Down
1072	CFL1	cofilin 1	-0.87	4.093	Down
80198	MUS81	MUS81 structure-specific endonuclease subunit	-0.406	1.838	Down
9158	FIBP	FGF1 intracellular binding protein	-0.818	3.894	Down
8061	FOSL1	FOS like 1, AP-1 transcription factor subunit	-4.871	14.33	Down
10589	DRAP1	DR1 associated protein 1	-0.754	2.99	Down
8815	BANF1	BAF nuclear assembly factor 1	-1.13	14.934	Down
64837	KLC2	kinesin light chain 2	-2.186	12.767	Down
1.05E+08	KLC2-AS1	KLC2 antisense RNA 1	-2.103	9.517	Down
1.05E+08	KLC2-AS2	KLC2 antisense RNA 2	-2.249	2.013	Down
81876	RAB1B	RAB1B, member RAS oncogene family	-0.516	2.012	Down
1.08E+08	LOC107984340	uncharacterized LOC107984340	-0.559	3.507	Down
10897	YIF1A	Yip1 interacting factor homolog A, membrane trafficking protein	-1.26	5.814	Down
65003	MRPL11	mitochondrial ribosomal protein L11	-0.958	2.379	Down
10072	DPP3	dipeptidyl peptidase 3	-1.812	20.569	Down
10432	RBM14	RNA binding motif protein 14	-0.509	1.458	Down
9986	RCE1	Ras converting CAAX endopeptidase 1	-0.491	1.848	Down
78999	LRFN4	leucine rich repeat and fibronectin type III domain containing 4	-0.949	2.776	Down
29984	RHOD	ras homolog family member D	-2.032	1.629	Down
5499	PPP1CA	protein phosphatase 1 catalytic subunit alpha	-0.82	3.555	Down
57571	CARNS1	carnosine synthase 1	-1.111	2.159	Down
6199	RPS6KB2	ribosomal protein S6 kinase B2	-0.624	3.219	Down
10263	CDK2AP2	cyclin dependent kinase 2 associated protein 2	-1.01	4.652	Down

2950	GSTP1	glutathione S-transferase pi 1	-1.688	8.06	Down
4723	NDUFV1	NADH:ubiquinone oxidoreductase core subunit V1	-0.612	1.886	Down
254552	NUDT8	nudix hydrolase 8	-1.147	2.446	Down
4728	NDUFS8	NADH:ubiquinone oxidoreductase core subunit S8	-0.484	1.567	Down
1119	CHKA	choline kinase alpha	-1.287	6.195	Down
2017	CTTN	cortactin	-2.385	7.921	Down
1717	DHCR7	7-dehydrocholesterol reductase	-1.031	4.248	Down
1E+08	XNDC1N	XRCC1 N-terminal domain containing 1, N-terminal like	-0.85	1.308	Down
55298	RNF121	ring finger protein 121	-0.429	2.604	Down
81570	CLPB	caseinolytic mitochondrial matrix peptidase chaperone subunit B	-0.88	1.503	Down
10809	STARD10	StAR related lipid transfer domain containing 10	-1.424	7.005	Down
84957	RELT	RELT TNF receptor	-0.788	2.351	Down
51287	COA4	cytochrome c oxidase assembly factor 4 homolog	-0.641	1.843	Down
51400	PPME1	protein phosphatase methylesterase 1	-0.487	2.725	Down
84649	DGAT2	diacylglycerol O-acyltransferase 2	-2.096	6.338	Down
1.02E+08	LINC02757	long intergenic non-protein coding RNA 2757	-6.436	4.304	Down
2615	LRRC32	leucine rich repeat containing 32	-3.303	7.817	Down
1.08E+08	LOC107984360		-3.269	5.966	Down
92105	INTS4	integrator complex subunit 4	-0.426	2.581	Down
79053	ALG8	ALG8 alpha-1,3-glucosyltransferase	-0.615	1.45	Down
220042	DDIAS	DNA damage induced apoptosis suppressor	-1.411	6.613	Down
27314	RAB30	RAB30, member RAS oncogene family	-1.396	12.752	Down
84233	TMEM126A	transmembrane protein 126A	-0.905	2.272	Down
8726	EED	embryonic ectoderm development	-1.238	15.604	Down
10873	ME3	malic enzyme 3	-1.153	1.496	Down
65084	TMEM135	transmembrane protein 135	-0.473	2.704	Down
1075	CTSC	cathepsin C	-0.661	1.537	Down

26973	CHORDC1	cysteine and histidine rich domain containing 1	-1.103	4.891	Down
677822	SNORA40	small nucleolar RNA, H/ACA box 40	-1.167	1.49	Down
24145	PANX1	pannexin 1	-0.584	1.35	Down
8898	MTMR2	myotubularin related protein 2	-1.322	12.832	Down
330	BIRC3	baculoviral IAP repeat containing 3	-1.167	4.713	Down
4312	MMP1	matrix metallopeptidase 1	-3.611	2.636	Down
84259	DCUN1D5	defective in cullin neddylation 1 domain containing 5	-0.999	7.141	Down
84437	MSANTD4	Myb/SANT DNA binding domain containing 4 with coiled-coils	-0.75	6.327	Down
54733	SLC35F2	solute carrier family 35 member F2	-1.326	20.268	Down
38	ACAT1	acetyl-CoA acetyltransferase 1	-0.683	4.751	Down
1662	DDX10	DEAD-box helicase 10	-0.981	3.962	Down
5962	RDX	radixin	-1.451	10.184	Down
5519	PPP2R1B	protein phosphatase 2 scaffold subunit Abeta	-0.966	5.7	Down
79796	ALG9	ALG9 alpha-1,2-mannosyltransferase	-0.378	2.22	Down
91893	FDXACB1	ferredoxin-fold anticodon binding domain containing 1	-0.81	4.655	Down
1737	DLAT	dihydrolipoamide S-acetyltransferase	-0.704	6.457	Down
120379	PIH1D2	PIH1 domain containing 2	-0.744	3.973	Down
26521	TIMM8B	translocase of inner mitochondrial membrane 8 homolog B	-0.778	1.583	Down
5805	PTS	6-pyruvoyltetrahydropterin synthase	-1.079	4.792	Down
9183	ZW10	zw10 kinetochore protein	-0.635	2.849	Down
8882	ZPR1	ZPR1 zinc finger	-0.529	2.697	Down
196264	MPZL3	myelin protein zero like 3	-0.695	1.768	Down
10205	MPZL2	myelin protein zero like 2	-2.734	16.023	Down
372	ARCN1	archain 1	-0.489	1.614	Down
10525	HYOU1	hypoxia up-regulated 1	-1.056	7.733	Down
3145	HMBS	hydroxymethylbilane synthase	-1.441	4.431	Down
3014	H2AX	H2A.X variant histone	-0.67	2.273	Down

1798	DPAGT1	dolichyl-phosphate N-acetylglucosaminephosphotransferase 1	-0.411	1.494	Down
220323	OAF	out at first homolog	-0.828	1.524	Down
23365	ARHGEF12	Rho guanine nucleotide exchange factor 12	-0.938	1.989	Down
3312	HSPA8	heat shock protein family A (Hsp70) member 8	-0.962	3.727	Down
57476	GRAMD1B	GRAM domain containing 1B	-1.328	3.753	Down
9638	FEZ1	fasciculation and elongation protein zeta 1	-4.144	6.613	Down
3703	STT3A	STT3 oligosaccharyltransferase complex catalytic subunit A	-0.603	2.608	Down
1111	CHEK1	checkpoint kinase 1	-2.146	18.639	Down
219844	HYLS1	HYLS1 centriolar and ciliogenesis associated	-0.566	1.736	Down
28960	DCPS	decapping enzyme, scavenger	-0.934	3.361	Down
89944	GLB1L2	galactosidase beta 1 like 2	-1.277	2.239	Down
1.08E+08	LOC107987373	replaced by ID 6150	-0.952	2.852	Down
2288	FKBP4	FKBP prolyl isomerase 4	-1.369	11.794	Down
1.04E+08	CCND2-AS1	CCND2 antisense RNA 1	-2.475	19.101	Down
894	CCND2	cyclin D2	-1.824	25.236	Down
57103	TIGAR	TP53 induced glycolysis regulatory phosphatase	-0.596	2.532	Down
10635	RAD51AP1	RAD51 associated protein 1	-2.07	4.51	Down
4704	NDUFA9	NADH:ubiquinone oxidoreductase subunit A9	-1.371	11.318	Down
55080	TAPBPL	TAP binding protein like	-0.742	2.537	Down
51258	MRPL51	mitochondrial ribosomal protein L51	-0.655	1.536	Down
2597	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	-0.998	2.136	Down
4839	NOP2	NOP2 nucleolar protein	-0.795	4.056	Down
1108	CHD4	chromodomain helicase DNA binding protein 4	-0.975	3.5	Down
8079	MLF2	myeloid leukemia factor 2	-0.732	5.11	Down
5763	PTMS	parathymosin	-1.306	1.493	Down
3902	LAG3	lymphocyte activating 3	-1.977	5.256	Down
8078	USP5	ubiquitin specific peptidase 5	-0.882	7.749	Down

7167	TPI1	triosephosphate isomerase 1	-1.46	3.981	Down
1822	ATN1	atrophin 1	-0.877	2.187	Down
5777	PTPN6	protein tyrosine phosphatase non-receptor type 6	-0.762	5.846	Down
10436	EMG1	EMG1 N1-specific pseudouridine methyltransferase	-0.568	2.736	Down
969	CD69	CD69 molecule	-3.519	16.359	Down
55110	MAGOHB	mago homolog B, exon junction complex subunit	-1.411	20.541	Down
8531	YBX3	Y-box binding protein 3	-1.367	2.194	Down
79370	BCL2L14	BCL2 like 14	-3.507	2.982	Down
51202	DDX47	DEAD-box helicase 47	-0.707	2.192	Down
57613	FAM234B	family with sequence similarity 234 member B	-0.406	1.525	Down
1.03E+08	LOC102724146	uncharacterized LOC102724146	-0.761	2.873	Down
11171	STRAP	serine/threonine kinase receptor associated protein	-0.904	4.112	Down
121536	AEBP2	AE binding protein 2	-0.436	1.314	Down
79912	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1	-0.601	2.329	Down
51026	GOLT1B	golgi transport 1B	-0.42	1.411	Down
55500	ETNK1	ethanolamine kinase 1	-0.813	2.91	Down
26127	FGFR1OP2	FGFR1 oncogene partner 2	-0.345	1.69	Down
60488	MRPS35	mitochondrial ribosomal protein S35	-0.629	1.899	Down
1.01E+08	DENND5B-AS1	DENND5B antisense RNA 1	-2.111	1.794	Down
10059	DNM1L	dynamin 1 like	-0.749	4.79	Down
51067	YARS2	tyrosyl-tRNA synthetase 2	-0.632	3.792	Down
55605	KIF21A	kinesin family member 21A	-0.97	1.646	Down
83448	PUS7L	pseudouridine synthase 7 like	-0.34	1.384	Down
54407	SLC38A2	solute carrier family 38 member 2	-0.546	1.337	Down
1.08E+08	LINC02416	long intergenic non-protein coding RNA 2416	-3.16	2.07	Down
10411	RAPGEF3	Rap guanine nucleotide exchange factor 3	-1.628	1.623	Down
55652	SLC48A1	solute carrier family 48 member 1	-0.654	2.794	Down

51564	HDAC7	histone deacetylase 7	-0.767	4.632	Down
7421	VDR	vitamin D receptor	-3.985	31.975	Down
29843	SENP1	SUMO specific peptidase 1	-0.566	7.201	Down
5213	PFKM	phosphofructokinase, muscle	-0.714	7.143	Down
27289	RND1	Rho family GTPase 1	-1.785	3.837	Down
377	ARF3	ADP ribosylation factor 3	-0.568	3.335	Down
23109	DDN	dendrin	-2.816	1.803	Down
121268	RHEBL1	RHEB like 1	-1.58	3.2	Down
10376	TUBA1B	tubulin alpha 1b	-2.408	27.127	Down
1.05E+08	TUBA1B-AS1	TUBA1B antisense RNA 1	-1.993	2.188	Down
7846	TUBA1A	tubulin alpha 1a	-1.227	8.159	Down
84790	TUBA1C	tubulin alpha 1c	-2.402	14.968	Down
65244	SPATS2	spermatogenesis associated serine rich 2	-0.79	4.235	Down
10445	MCRS1	microspherule protein 1	-0.405	1.416	Down
91010	FMNL3	formin like 3	-0.803	2.584	Down
91012	CERS5	ceramide synthase 5	-0.432	1.346	Down
51474	LIMA1	LIM domain and actin binding 1	-1.915	4.509	Down
113251	LARP4	La ribonucleoprotein 4	-1.207	17.424	Down
4891	SLC11A2	solute carrier family 11 member 2	-1.064	13.458	Down
11226	GALNT6	polypeptide N-acetylgalactosaminyltransferase 6	-1.337	4.034	Down
3164	NR4A1	nuclear receptor subfamily 4 group A member 1	-5.902	24.33	Down
60673	ATG101	autophagy related 101	-0.755	2.67	Down
5916	RARG	retinoic acid receptor gamma	-0.446	1.316	Down
9700	ESPL1	extra spindle pole bodies like 1, separase	-2.657	3.753	Down
8086	AAAS	aladin WD repeat nucleoporin	-0.702	2.89	Down
6895	TARBP2	TARBP2 subunit of RISC loading complex	-0.674	1.46	Down
3178	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	-0.634	1.871	Down

967	CD63	CD63 molecule	-0.697	1.46	Down
84324	SARNP	SAP domain containing ribonucleoprotein	-0.586	1.948	Down
29095	ORMDL2	ORMDL sphingolipid biosynthesis regulator 2	-0.793	3.52	Down
1017	CDK2	cyclin dependent kinase 2	-1.059	7.981	Down
64375	IKZF4	IKAROS family zinc finger 4	-1.376	2.919	Down
1.05E+08	LOC105369781	uncharacterized LOC105369781	-1.484	1.408	Down
5036	PA2G4	proliferation-associated 2G4	-0.696	3.872	Down
140465	MYL6B	myosin light chain 6B	-1.321	2.228	Down
4637	MYL6	myosin light chain 6	-0.791	1.842	Down
79035	NABP2	nucleic acid binding protein 2	-0.94	7.305	Down
1431	CS	citrate synthase	-0.85	4.55	Down
10330	CNPY2	canopy FGF signaling regulator 2	-0.674	2.122	Down
51561	IL23A	interleukin 23 subunit alpha	-1.548	9.268	Down
8914	TIMELESS	timeless circadian regulator	-1.039	5.021	Down
1.07E+08	SNORA105C	small nucleolar RNA, H/ACA box 105C	-1.077	2.477	Down
506	ATP5F1B	ATP synthase F1 subunit beta	-0.988	6.519	Down
10728	PTGES3	prostaglandin E synthase 3	-0.656	2.981	Down
23306	NEMP1	nuclear envelope integral membrane protein 1	-0.869	2.677	Down
4665	NAB2	NGFI-A binding protein 2	-0.924	1.6	Down
6472	SHMT2	serine hydroxymethyltransferase 2	-1.398	5.858	Down
56901	NDUFA4L2	NDUFA4 mitochondrial complex associated like 2	-1.72	1.602	Down
4141	MARS1	methionyl-tRNA synthetase 1	-1.838	10.034	Down
196403	DTX3	deltex E3 ubiquitin ligase 3	-0.627	1.44	Down
6302	TSPAN31	tetraspanin 31	-0.895	2.207	Down
1019	CDK4	cyclin dependent kinase 4	-1.063	4.202	Down
1594	CYP27B1	cytochrome P450 family 27 subfamily B member 1	-2.183	3.092	Down
4234	METTL1	methyltransferase 1, tRNA methylguanosine	-1.671	6.999	Down

10102	TSFM	Ts translation elongation factor, mitochondrial	-0.668	1.585	Down
1.05E+08	LOC105369783	uncharacterized LOC105369783	-2.709	2.075	Down
11260	XPOT	exportin for tRNA	-0.557	1.843	Down
29110	TBK1	TANK binding kinase 1	-0.707	3.271	Down
84298	LLPH	LLP homolog, long-term synaptic facilitation factor	-0.436	1.954	Down
55832	CAND1	cullin associated and neddylation dissociated 1	-0.468	1.327	Down
3458	IFNG	interferon gamma	-6.085	13.9	Down
55801	IL26	interleukin 26	-4.791	5.777	Down
50616	IL22	interleukin 22	-7.946	6.132	Down
1.01E+08	LINC02384	long intergenic non-protein coding RNA 2384	-4.604	1.637	Down
57122	NUP107	nucleoporin 107	-0.693	1.737	Down
4193	MDM2	MDM2 proto-oncogene	-0.482	4.312	Down
11052	CPSF6	cleavage and polyadenylation specific factor 6	-0.578	2.887	Down
10576	CCT2	chaperonin containing TCP1 subunit 2	-1.304	6.102	Down
11103	KRR1	KRR1 small subunit processome component homolog	-0.492	4.473	Down
22822	PHLDA1	pleckstrin homology like domain family A member 1	-1.88	7.939	Down
144455	E2F7	E2F transcription factor 7	-2.925	2.239	Down
1848	DUSP6	dual specificity phosphatase 6	-2.936	15.604	Down
1.01E+08	POC1B-GALNT4	POC1B-GALNT4 readthrough	-1.795	11.023	Down
8693	GALNT4	polypeptide N-acetylgalactosaminyltransferase 4	-1.917	12.344	Down
7334	UBE2N	ubiquitin conjugating enzyme E2 N	-1.136	4.671	Down
6636	SNRPF	small nuclear ribonucleoprotein polypeptide F	-0.794	2.603	Down
1.03E+08	LOC102723340	uncharacterized LOC102723340	-0.569	1.636	Down
4048	LTA4H	leukotriene A4 hydrolase	-0.477	1.515	Down
7112	TMPO	thymopoietin	-0.387	1.897	Down
5250	SLC25A3	solute carrier family 25 member 3	-0.529	1.327	Down
23074	BLTP3B	bridge-like lipid transfer protein family member 3B	-1.043	10.73	Down

27340	UTP20	UTP20 small subunit processome component	-1.45	9.801	Down
55332	DRAM1	DNA damage regulated autophagy modulator 1	-0.916	1.408	Down
79023	NUP37	nucleoporin 37	-0.844	3.763	Down
7184	HSP90B1	heat shock protein 90 beta family member 1	-0.661	3.552	Down
6996	TDG	thymine DNA glycosylase	-0.51	3.008	Down
7296	TXNRD1	thioredoxin reductase 1	-1.216	6.557	Down
50515	CHST11	carbohydrate sulfotransferase 11	-0.815	5.084	Down
84102	SLC41A2	solute carrier family 41 member 2	-1.268	1.405	Down
55703	POLR3B	RNA polymerase III subunit B	-0.943	2.806	Down
11137	PWP1	PWP1 homolog, endonuclein	-0.579	2.737	Down
11153	FICD	FIC domain protein adenylyltransferase	-0.683	1.587	Down
1E+08	USP30-AS1	USP30 antisense RNA 1	-1.086	1.892	Down
83892	KCTD10	potassium channel tetramerization domain containing 10	-0.422	1.604	Down
326625	MMAB	metabolism of cobalamin associated B	-0.872	3.339	Down
4598	MVK	mevalonate kinase	-1.672	10.659	Down
488	ATP2A2	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2	-1.078	8.123	Down
51184	GPN3	GPN-loop GTPase 3	-0.718	2.142	Down
144715	RAD9B	RAD9 checkpoint clamp component B	-0.957	7.299	Down
160760	PPTC7	protein phosphatase targeting COQ7	-1.04	10.181	Down
5501	PPP1CC	protein phosphatase 1 catalytic subunit gamma	-0.545	3.376	Down
10019	SH2B3	SH2B adaptor protein 3	-1.049	3.45	Down
80018	NAA25	N-alpha-acetyltransferase 25, NatB auxiliary subunit	-0.539	1.574	Down
10906	TRAFD1	TRAF-type zinc finger domain containing 1	-1.146	2.169	Down
5781	PTPN11	protein tyrosine phosphatase non-receptor type 11	-0.828	7.177	Down
4940	OAS3	2'-5'-oligoadenylate synthetase 3	-1.923	1.434	Down
1840	DTX1	deltex E3 ubiquitin ligase 1	-1.449	1.813	Down
9904	RBM19	RNA binding motif protein 19	-1.009	1.415	Down

54997	TESC	tescalcin	-2.977	9.674	Down
5985	RFC5	replication factor C subunit 5	-0.497	2.935	Down
55884	WSB2	WD repeat and SOCS box containing 2	-0.826	4.59	Down
11021	RAB35	RAB35, member RAS oncogene family	-0.242	1.387	Down
10985	GCN1	GCN1 activator of EIF2AK4	-0.447	2.121	Down
1337	COX6A1	cytochrome c oxidase subunit 6A1	-0.8	1.706	Down
51499	TRIAP1	TP53 regulated inhibitor of apoptosis 1	-0.576	1.369	Down
283459	GATC	glutamyl-tRNA amidotransferase subunit C	-0.37	1.614	Down
8683	SRSF9	serine and arginine rich splicing factor 9	-0.844	7.35	Down
8655	DYNLL1	dynein light chain LC8-type 1	-0.989	3.165	Down
51367	POP5	POP5 homolog, ribonuclease P/MRP subunit	-0.756	1.883	Down
9761	MLEC	malectin	-0.349	1.507	Down
64897	C12orf43	chromosome 12 open reading frame 43	-0.562	2.119	Down
5027	P2RX7	purinergic receptor P2X 7	-1.925	5.934	Down
80196	RNF34	ring finger protein 34	-0.447	2.898	Down
5715	PSMD9	proteasome 26S subunit, non-ATPase 9	-0.67	2.771	Down
386653	IL31	interleukin 31	-8.492	2.886	Down
27198	HCAR1	hydroxycarboxylic acid receptor 1	-2.356	1.979	Down
8099	CDK2AP1	cyclin dependent kinase 2 associated protein 1	-2.22	21.54	Down
10959	TMED2	transmembrane p24 trafficking protein 2	-0.53	1.339	Down
1967	EIF2B1	eukaryotic translation initiation factor 2B subunit alpha	-0.507	1.427	Down
2967	GTF2H3	general transcription factor IIH subunit 3	-0.493	1.707	Down
23545	ATP6V0A2	ATPase H+ transporting V0 subunit a2	-0.958	5.875	Down
144348	ZNF664	zinc finger protein 664	-0.317	1.348	Down
949	SCARB1	scavenger receptor class B member 1	-1.074	3.504	Down
7316	UBC	ubiquitin C	-0.803	2.885	Down
57647	DHX37	DEAH-box helicase 37	-0.655	2.964	Down

5901	RAN	RAN, member RAS oncogene family	-1.376	8.272	Down
80324	PUS1	pseudouridine synthase 1	-1.047	9.184	Down
79050	NOC4L	nucleolar complex associated 4 homolog	-0.901	3.338	Down
192111	PGAM5	PGAM family member 5, mitochondrial serine/threonine protein phosphatase	-0.65	2.809	Down
23141	ANKLE2	ankyrin repeat and LEM domain containing 2	-0.599	5.316	Down
2706	GJB2	gap junction protein beta 2	-7.537	7.479	Down
10804	GJB6	gap junction protein beta 6	-2.533	3.655	Down
53342	IL17D	interleukin 17D	-1.846	4.761	Down
221150	SKA3	spindle and kinetochore associated complex subunit 3	-1.365	1.531	Down
221154	MICU2	mitochondrial calcium uptake 2	-0.558	2.416	Down
1.01E+08	LINC00621	long intergenic non-protein coding RNA 621	-1.681	1.397	Down
4285	MIPEP	mitochondrial intermediate peptidase	-1.059	6.731	Down
479	ATP12A	ATPase H+/K+ transporting non-gastric alpha2 subunit	-5.823	4.934	Down
9818	NUP58	nucleoporin 58	-0.891	6.781	Down
6049	RNF6	ring finger protein 6	-0.301	1.331	Down
219333	USP12	ubiquitin specific peptidase 12	-1.075	6.8	Down
51371	POMP	proteasome maturation protein	-1.445	9.503	Down
6541	SLC7A1	solute carrier family 7 member 1	-1.593	4.555	Down
171222	UBE2L5	ubiquitin conjugating enzyme E2 L5	-1.093	3.6	Down
10808	HSPH1	heat shock protein family H (Hsp110) member 1	-1.35	11.521	Down
1.08E+08	LOC107984551	uncharacterized LOC107984551	-6.39	3.874	Down
5983	RFC3	replication factor C subunit 3	-0.985	4.241	Down
5994	RFXAP	regulatory factor X associated protein	-1.089	4.355	Down
29880	ALG5	ALG5 dolichyl-phosphate beta-glucosyltransferase	-0.598	1.58	Down
11340	EXOSC8	exosome component 8	-0.943	5.238	Down
51569	UFM1	ubiquitin fold modifier 1	-0.6	7.45	Down
11193	WBP4	WW domain binding protein 4	-0.91	6.154	Down

8600	TNFSF11	TNF superfamily member 11	-2.185	5.729	Down
94240	EPSTI1	epithelial stromal interaction 1	-1.784	2.765	Down
144811	LACC1	laccase domain containing 1	-1.631	3.562	Down
26747	NUFIP1	nuclear FMR1 interacting protein 1	-0.501	1.556	Down
2963	GTF2F2	general transcription factor IIF subunit 2	-0.512	1.614	Down
3936	LCP1	lymphocyte cytosolic protein 1	-0.721	2.26	Down
55270	NUDT15	nudix hydrolase 15	-0.551	1.56	Down
5925	RB1	RB transcriptional corepressor 1	-0.514	3.065	Down
57105	CYSLTR2	cysteinyl leukotriene receptor 2	-1.415	3.477	Down
51131	PHF11	PHD finger protein 11	-0.496	1.31	Down
3839	KPNA3	karyopherin subunit alpha 3	-0.527	1.505	Down
57213	SPRYD7	SPRY domain containing 7	-0.81	4.605	Down
26512	INTS6	integrator complex subunit 6	-0.681	1.364	Down
144983	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1 like 2	-0.523	1.59	Down
10910	SUGT1	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone	-0.369	1.567	Down
440145	MZT1	mitotic spindle organizing protein 1	-0.513	2.458	Down
22894	DIS3	DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease	-0.455	2.281	Down
7347	UCHL3	ubiquitin C-terminal hydrolase L3	-1.133	3.25	Down
1.02E+08	LMO7-AS1	LMO7 antisense RNA 1	-0.958	1.938	Down
54602	NDFIP2	Nedd4 family interacting protein 2	-4.292	21.681	Down
2262	GPC5	glypican 5	-3.05	1.804	Down
10257	ABCC4	ATP binding cassette subfamily C member 4	-0.544	3.573	Down
5611	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3	-0.548	3.965	Down
3843	IPO5	importin 5	-0.637	3.713	Down
8428	STK24	serine/threonine kinase 24	-0.405	2.195	Down
1.01E+08	STK24-AS1	STK24 antisense RNA 1	-2.015	1.342	Down
1880	GPR183	G protein-coupled receptor 183	-0.739	1.911	Down

9375	TM9SF2	transmembrane 9 superfamily member 2	-0.498	2.05	Down
1.05E+08	PCCA-DT	PCCA divergent transcript	-1.503	1.359	Down
1.05E+08	LOC105370337	uncharacterized LOC105370337	-1.361	1.606	Down
93081	TEX30	testis expressed 30	-1.177	2.514	Down
79070	POGLUT2	protein O-glucosyltransferase 2	-1.76	2.659	Down
3981	LIG4	DNA ligase 4	-0.996	5.375	Down
79587	CARS2	cysteinyl-tRNA synthetase 2, mitochondrial	-0.692	2.315	Down
7027	TFDP1	transcription factor Dp-1	-1.092	14.075	Down
8881	CDC16	cell division cycle 16	-1.203	7.209	Down
1.05E+08	LOC105370384	uncharacterized LOC105370384	-1.149	2.295	Down
641455	POTEM	POTE ankyrin domain family member M	-1.605	7.45	Down
91875	TTC5	tetratricopeptide repeat domain 5	-0.543	2.081	Down
55644	OSGEP	O-sialoglycoprotein endopeptidase	-0.96	4.036	Down
4860	PNP	purine nucleoside phosphorylase	-0.684	1.766	Down
64745	METTL17	methyltransferase like 17	-0.6	3.525	Down
28691	TRAV2	T cell receptor alpha variable 2	-0.882	2.53	Down
28666	TRAV17	T cell receptor alpha variable 17	-0.56	2.159	Down
28659	TRAV24	T cell receptor alpha variable 24	-0.747	1.404	Down
28657	TRAV26-1	T cell receptor alpha variable 26-1	-0.583	1.387	Down
28656	TRAV26-2	T cell receptor alpha variable 26-2	-0.986	1.46	Down
28526	TRDC	T cell receptor delta constant	-0.613	1.604	Down
28743	TRAJ12	T cell receptor alpha joining 12	-1.128	1.412	Down
28750	TRAJ5	T cell receptor alpha joining 5	-1.127	1.737	Down
122704	MRPL52	mitochondrial ribosomal protein L52	-0.921	2.543	Down
1.01E+08	PRMT5-AS1	PRMT5 antisense RNA 1	-0.942	2.873	Down
10419	PRMT5	protein arginine methyltransferase 5	-1.025	4.01	Down
5693	PSMB5	proteasome 20S subunit beta 5	-1.192	7.298	Down

1.01E+08	BCL2L2-PABPN1	BCL2L2-PABPN1 readthrough	-0.512	3.377	Down
8106	PABPN1	poly(A) binding protein nuclear 1	-0.443	1.82	Down
79178	THTPA	thiamine triphosphatase	-0.469	1.732	Down
85446	ZFHX2	zinc finger homeobox 2	-1.69	3.879	Down
84502	JPH4	junctophilin 4	-5.87	3.368	Down
5106	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial	-1.272	5.553	Down
5720	PSME1	proteasome activator subunit 1	-1.365	5.093	Down
5721	PSME2	proteasome activator subunit 2	-2.463	8.906	Down
1.02E+08	MIR7703	microRNA 7703	-2.496	8.698	Down
10379	IRF9	interferon regulatory factor 9	-0.575	1.312	Down
9985	REC8	REC8 meiotic recombination protein	-0.86	2.657	Down
79711	IPO4	importin 4	-1.714	14.346	Down
29082	CHMP4A	charged multivesicular body protein 4A	-0.507	2.034	Down
5875	RABGGTA	Rab geranylgeranyltransferase subunit alpha	-0.38	1.317	Down
161424	NOP9	NOP9 nucleolar protein	-0.498	1.815	Down
643866	CBLN3	cerebellin 3 precursor	-1.609	4.635	Down
3002	GZMB	granzyme B	-4.694	5.493	Down
1073	CFL2	cofilin 2	-0.859	2.075	Down
1.12E+08	BAZ1A-AS1	BAZ1A antisense RNA 1	-0.964	2.625	Down
6729	SRP54	signal recognition particle 54	-0.895	5.6	Down
283635	FAM177A1	family with sequence similarity 177 member A1	-0.595	2.965	Down
1.02E+08	LOC101927178	uncharacterized LOC101927178	-0.639	1.999	Down
5687	PSMA6	proteasome 20S subunit alpha 6	-1.602	9.673	Down
4792	NFKBIA	NFKB inhibitor alpha	-2.229	9.886	Down
51562	MBIP	MAP3K12 binding inhibitory protein 1	-0.728	5.228	Down
4253	MIA2	MIA SH3 domain ER export factor 2	-0.36	1.451	Down
254170	FBXO33	F-box protein 33	-1.163	11.218	Down

55015	PRPF39	pre-mRNA processing factor 39	-0.382	1.748	Down
2287	FKBP3	FKBP prolyl isomerase 3	-0.618	3.383	Down
122769	LRR1	leucine rich repeat protein 1	-0.512	1.986	Down
4247	MGAT2	alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	-0.586	4.666	Down
5427	POLE2	DNA polymerase epsilon 2, accessory subunit	-1.592	5.221	Down
382	ARF6	ADP ribosylation factor 6	-0.786	9.866	Down
11183	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	-1.146	6.489	Down
81542	TMX1	thioredoxin related transmembrane protein 1	-0.594	2.225	Down
5706	PSMC6	proteasome 26S subunit, ATPase 6	-0.819	6.64	Down
64841	GNPNAT1	glucosamine-phosphate N-acetyltransferase 1	-0.803	3.737	Down
10979	FERMT2	FERM domain containing kindlin 2	-1.528	1.623	Down
80821	DDHD1	DDHD domain containing 1	-1.42	10.859	Down
2764	GMFB	glia maturation factor beta	-0.854	5.138	Down
23034	SAMD4A	sterile alpha motif domain containing 4A	-3.589	20.55	Down
2643	GCH1	GTP cyclohydrolase 1	-1.355	5.222	Down
11169	WDHD1	WD repeat and HMG-box DNA binding protein 1	-1.023	3.849	Down
122809	SOCS4	suppressor of cytokine signaling 4	-0.934	7.358	Down
93487	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1 like	-0.475	1.479	Down
5684	PSMA3	proteasome 20S subunit alpha 3	-1.772	11.855	Down
51339	DACT1	dishevelled binding antagonist of beta catenin 1	-0.891	1.699	Down
4331	MNAT1	MNAT1 component of CDK activating kinase	-0.909	3.553	Down
57570	TRMT5	tRNA methyltransferase 5	-0.578	2.57	Down
1.01E+08	HIF1A-AS1	HIF1A antisense RNA 1	-1.407	7.112	Down
3091	HIF1A	hypoxia inducible factor 1 subunit alpha	-1.414	8.936	Down
1.01E+08	HIF1A-AS2	HIF1A antisense RNA 2	-1.368	9.023	Down
6617	SNAPC1	small nuclear RNA activating complex polypeptide 1	-0.727	3.097	Down

4522	MTHFD1	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1	-1.203	10.291	Down
3306	HSPA2	heat shock protein family A (Hsp70) member 2	-2.449	5.838	Down
1965	EIF2S1	eukaryotic translation initiation factor 2 subunit alpha	-0.922	11.033	Down
2079	ERH	ERH mRNA splicing and mitosis factor	-0.864	3.194	Down
9766	SUSD6	sushi domain containing 6	-0.591	2.855	Down
10001	MED6	mediator complex subunit 6	-0.376	1.686	Down
122970	ACOT4	acyl-CoA thioesterase 4	-1.268	2.373	Down
83694	RPS6KL1	ribosomal protein S6 kinase like 1	-1.459	3.555	Down
8892	EIF2B2	eukaryotic translation initiation factor 2B subunit beta	-0.487	1.589	Down
122953	JDP2	Jun dimerization protein 2	-1.187	1.39	Down
1.05E+08	LOC105370572	uncharacterized LOC105370572	-3.176	2.707	Down
10538	BATF	basic leucine zipper ATF-like transcription factor	-2.159	5.763	Down
11161	ERG28	ergosterol biosynthesis 28 homolog	-0.805	2.804	Down
55668	GPATCH2L	G-patch domain containing 2 like	-0.574	2.366	Down
283578	TMED8	transmembrane p24 trafficking protein family member 8	-0.714	2.272	Down
10598	AHSA1	activator of HSP90 ATPase activity 1	-1.238	19.682	Down
81892	SLIRP	SRA stem-loop interacting RNA binding protein	-1.19	4.283	Down
8477	GPR65	G protein-coupled receptor 65	-0.548	1.47	Down
400236	FOXN3-AS1	FOXN3 antisense RNA 1	-1.686	3.725	Down
5700	PSMC1	proteasome 26S subunit, ATPase 1	-1.118	7.422	Down
55051	NRDE2	NRDE-2, necessary for RNA interference, domain containing	-0.582	5.256	Down
145567	TTC7B	tetratricopeptide repeat domain 7B	-1.983	5.081	Down
9252	RPS6KA5	ribosomal protein S6 kinase A5	-0.7	2.153	Down
8111	GPR68	G protein-coupled receptor 68	-1.379	5.148	Down
5641	LGMN	legumain	-1.459	3.604	Down
3705	ITPK1	inositol-tetrakisphosphate 1-kinase	-0.499	1.591	Down

51676	ASB2	ankyrin repeat and SOCS box containing 2	-3.548	25.7	Down
78990	OTUB2	OTU deubiquitinase, ubiquitin aldehyde binding 2	-2.319	7.628	Down
3429	IFI27	interferon alpha inducible protein 27	-2.854	2.842	Down
2009	EML1	EMAP like 1	-2.286	1.512	Down
7453	WARS1	tryptophanyl-tRNA synthetase 1	-2.962	7.5	Down
57596	BEGAIN	brain enriched guanylate kinase associated	-1.35	2.721	Down
3320	HSP90AA1	heat shock protein 90 alpha family class A member 1	-1.486	15.138	Down
7187	TRAF3	TNF receptor associated factor 3	-1.107	6.634	Down
1152	CKB	creatine kinase B	-2.401	4.625	Down
115708	TRMT61A	tRNA methyltransferase 61A	-0.618	2.029	Down
1.03E+08	LOC102723342	uncharacterized LOC102723342	-0.397	1.71	Down
207	AKT1	AKT serine/threonine kinase 1	-0.455	2.549	Down
55038	CDCA4	cell division cycle associated 4	-0.577	2.262	Down
3714	JAG2	jagged canonical Notch ligand 2	-1.066	2.042	Down
28473	IGHV1-3	immunoglobulin heavy variable 1-3	-1.904	1.405	Down
123606	NIPA1	NIPA magnesium transporter 1	-0.613	2.217	Down
1.05E+08	LOC105376707		-1.613	1.599	Down
57099	AVEN	apoptosis and caspase activation inhibitor	-1.029	6.152	Down
56851	EMC7	ER membrane protein complex subunit 7	-0.701	3.496	Down
79768	KATNBL1	katanin regulatory subunit B1 like 1	-0.915	4.932	Down
55505	NOP10	NOP10 ribonucleoprotein	-0.83	2.544	Down
283742	FAM98B	family with sequence similarity 98 member B	-0.687	2.468	Down
90427	BMF	Bcl2 modifying factor	-1.977	7.374	Down
90417	KNSTRN	kinetochore localized astrin (SPAG5) binding protein	-0.971	2.03	Down
5888	RAD51	RAD51 recombinase	-1.175	1.641	Down
55177	RMDN3	regulator of microtubule dynamics 3	-0.72	4.123	Down
6692	SPINT1	serine peptidase inhibitor, Kunitz type 1	-0.764	2.288	Down

171177	RHOV	ras homolog family member V	-3.592	1.563	Down
54567	DLL4	delta like canonical Notch ligand 4	-4.644	2.194	Down
79094	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1	-5.414	18.491	Down
11261	CHP1	calcineurin like EF-hand protein 1	-0.67	2.477	Down
11339	OIP5	Opa interacting protein 5	-2.018	3.918	Down
51103	NDUFAF1	NADH:ubiquinone oxidoreductase complex assembly factor 1	-1.047	8.028	Down
1.05E+08	LOC105370792	uncharacterized LOC105370792	-1.007	3.921	Down
30844	EHD4	EH domain containing 4	-1.375	8.138	Down
9836	LCMT2	leucine carboxyl methyltransferase 2	-0.648	3.984	Down
2923	PDIA3	protein disulfide isomerase family A member 3	-0.777	3.295	Down
25764	HYPK	huntingtin interacting protein K	-1.331	7.331	Down
4236	MFAP1	microfibril associated protein 1	-0.462	1.757	Down
79968	WDR76	WD repeat domain 76	-0.734	2.66	Down
8669	EIF3J	eukaryotic translation initiation factor 3 subunit J	-0.809	3.438	Down
567	B2M	beta-2-microglobulin	-0.652	1.53	Down
1.13E+08	MIR10393	microRNA 10393	-0.625	1.546	Down
1E+08	LOC100419583	ring finger protein 4 pseudogene	-0.451	1.411	Down
653381	SORD2P	sorbitol dehydrogenase 2, pseudogene	-0.942	1.943	Down
6652	SORD	sorbitol dehydrogenase	-0.697	1.907	Down
90525	SHF	Src homology 2 domain containing F	-1.346	2.993	Down
58472	SQOR	sulfide quinone oxidoreductase	-1.077	2.903	Down
50804	MYEF2	myelin expression factor 2	-0.84	1.636	Down
11001	SLC27A2	solute carrier family 27 member 2	-1.448	2.334	Down
2553	GABPB1	GA binding protein transcription factor subunit beta 1	-0.969	5.555	Down
84888	SPPL2A	signal peptide peptidase like 2A	-1.656	10.849	Down
5597	MAPK6	mitogen-activated protein kinase 6	-1.164	5.986	Down
10776	ARPP19	cAMP regulated phosphoprotein 19	-0.604	4.926	Down

664618	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene	-2.868	1.786	Down
2958	GTF2A2	general transcription factor IIA subunit 2	-0.842	2.633	Down
27023	FOXB1	forkhead box B1	-2.564	1.472	Down
145741	C2CD4A	C2 calcium dependent domain containing 4A	-4.727	3.723	Down
114294	LACTB	lactamase beta	-1.011	5.346	Down
51762	RAB8B	RAB8B, member RAS oncogene family	-0.801	2.075	Down
9768	PCLAF	PCNA clamp associated factor	-1.547	2.29	Down
9325	TRIP4	thyroid hormone receptor interactor 4	-0.414	1.475	Down
54962	TIPIN	TIMELESS interacting protein	-1.118	10.053	Down
55055	ZWILCH	zwilch kinetochore protein	-0.761	2.024	Down
79719	AAGAB	alpha and gamma adaptin binding protein	-0.793	6.428	Down
54982	CLN6	CLN6 transmembrane ER protein	-1.007	5.889	Down
8125	ANP32A	acidic nuclear phosphoprotein 32 family member A	-0.689	5.413	Down
5315	PKM	pyruvate kinase M1/2	-1.36	3.806	Down
27020	NPTN	neuroplastin	-0.427	4.182	Down
8482	SEMA7A	semaphorin 7A (John Milton Hagen blood group)	-3.058	7.798	Down
1543	CYP1A1	cytochrome P450 family 1 subfamily A member 1	-2.873	6.656	Down
9377	COX5A	cytochrome c oxidase subunit 5A	-0.853	3.713	Down
192683	SCAMP5	secretory carrier membrane protein 5	-1.061	1.374	Down
5780	PTPN9	protein tyrosine phosphatase non-receptor type 9	-0.489	2.203	Down
26263	FBXO22	F-box protein 22	-0.611	1.857	Down
2108	ETFA	electron transfer flavoprotein subunit alpha	-1.249	6.819	Down
79834	PEAK1	pseudopodium enriched atypical kinase 1	-0.563	1.429	Down
10518	CIB2	calcium and integrin binding family member 2	-0.997	2.71	Down
3419	IDH3A	isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha	-0.9	7.395	Down
23205	ACSBG1	acyl-CoA synthetase bubblegum family member 1	-0.839	4.765	Down
55466	DNAJA4	DnaJ heat shock protein family (Hsp40) member A4	-0.789	9.714	Down

80349	SKIC8	SKI8 subunit of superkiller complex	-0.641	2.364	Down
5685	PSMA4	proteasome 20S subunit alpha 4	-1.281	8.751	Down
1138	CHRNA5	cholinergic receptor nicotinic alpha 5 subunit	-1.686	4.548	Down
400410	ST20	suppressor of tumorigenicity 20	-0.918	1.967	Down
597	BCL2A1	BCL2 related protein A1	-1.726	3.529	Down
2184	FAH	fumarylacetoacetate hydrolase	-2.08	22.583	Down
26589	MRPL46	mitochondrial ribosomal protein L46	-0.723	1.762	Down
145864	HAPLN3	hyaluronan and proteoglycan link protein 3	-1.718	8.487	Down
641	BLM	BLM RecQ like helicase	-1.311	12.132	Down
5045	FURIN	furin, paired basic amino acid cleaving enzyme	-1.508	7.593	Down
7190	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene	-0.594	1.833	Down
22856	CHSY1	chondroitin sulfate synthase 1	-1.159	5.088	Down
55829	SELENOS	selenoprotein S	-0.618	2.403	Down
6627	SNRPA1	small nuclear ribonucleoprotein polypeptide A'	-0.887	8.228	Down
80213	TM2D3	TM2 domain containing 3	-1.268	7.226	Down
51728	POLR3K	RNA polymerase III subunit K	-0.765	2.181	Down
79622	SNRNP25	small nuclear ribonucleoprotein U11/U12 subunit 25	-1.052	3.329	Down
10573	MRPL28	mitochondrial ribosomal protein L28	-1.249	7.026	Down
339123	JMJD8	jumonji domain containing 8	-0.356	1.736	Down
79006	METRN	meteorin, glial cell differentiation regulator	-0.79	1.337	Down
65990	ANTKMT	adenine nucleotide translocase lysine methyltransferase	-1.582	4.128	Down
7329	UBE2I	ubiquitin conjugating enzyme E2 I	-0.443	2.58	Down
283951	UQCC4	ubiquinol-cytochrome c reductase complex assembly factor 4	-0.854	2.105	Down
90861	JPT2	Jupiter microtubule associated homolog 2	-0.533	1.655	Down
81889	FAHD1	fumarylacetoacetate hydrolase domain containing 1	-0.497	2.236	Down
51734	MSRB1	methionine sulfoxide reductase B1	-1.11	3.115	Down
10607	TBL3	transducin beta like 3	-1.105	6.135	Down

9143	SYNGR3	synaptogyrin 3	-1.923	4.857	Down
283869	NPW	neuropeptide W	-3.99	3.578	Down
64223	MLST8	MTOR associated protein, LST8 homolog	-0.505	1.391	Down
10921	RNPS1	RNA binding protein with serine rich domain 1	-0.455	3.699	Down
80178	TEDC2	tubulin epsilon and delta complex 2	-1.846	2.498	Down
10942	PRSS21	serine protease 21	-1.978	1.816	Down
9088	PKMYT1	protein kinase, membrane associated tyrosine/threonine 1	-1.727	1.767	Down
51330	TNFRSF12A	TNF receptor superfamily member 12A	-1.448	2.605	Down
79228	THOC6	THO complex subunit 6	-1.193	8.532	Down
146439	BICDL2	BICD family like cargo adaptor 2	-1.394	1.681	Down
9235	IL32	interleukin 32	-1.476	6.503	Down
10131	TRAP1	TNF receptor associated protein 1	-1.13	5.856	Down
51025	PAM16	presequence translocase associated motor 16	-0.918	2.716	Down
56052	ALG1	ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase	-0.438	1.419	Down
196483	EEF2KMT	eukaryotic elongation factor 2 lysine methyltransferase	-0.615	3.252	Down
18	ABAT	4-aminobutyrate aminotransferase	-0.488	1.86	Down
5373	PMM2	phosphomannomutase 2	-0.994	7.737	Down
4682	NUBP1	NUBP iron-sulfur cluster assembly factor 1, cytosolic	-0.492	1.591	Down
8651	SOCS1	suppressor of cytokine signaling 1	-2.772	8.292	Down
1.05E+08	RSL1D1-DT	RSL1D1 divergent transcript	-0.586	3.114	Down
2935	GSPT1	G1 to S phase transition 1	-0.414	1.819	Down
55313	CPPED1	calcineurin like phosphoesterase domain containing 1	-1.066	4.304	Down
23420	NOMO1	NODAL modulator 1	-0.495	1.386	Down
123879	DCUN1D3	defective in cullin neddylation 1 domain containing 3	-0.767	3.017	Down
387254	SLC7A5P2	solute carrier family 7 member 5 pseudogene 2	-1.333	2.536	Down
4706	NDUFAB1	NADH:ubiquinone oxidoreductase subunit AB1	-1.237	4.118	Down
400512	NSMCE1-DT	NSMCE1 divergent transcript	-4.568	6.271	Down

3566	IL4R	interleukin 4 receptor	-1.769	6.846	Down
728689	EIF3CL	eukaryotic translation initiation factor 3 subunit C like	-0.811	2.845	Down
8663	EIF3C	eukaryotic translation initiation factor 3 subunit C	-0.803	2.785	Down
7284	TUFM	Tu translation elongation factor, mitochondrial	-1.114	3.504	Down
1.01E+08	MIR4721	microRNA 4721	-1.158	4.067	Down
1.07E+08	BOLA2-SMG1P6	BOLA2-SMG1P6 readthrough	-0.726	1.674	Down
606724	LOC606724	coronin 1A pseudogene	-0.766	2.14	Down
552900	BOLA2	bolA family member 2	-0.878	1.787	Down
1.13E+08	LOC112694756	uncharaterized LOC112694756	-0.936	3.364	Down
226	ALDOA	aldolase, fructose-bisphosphate A	-0.925	3.343	Down
1.08E+08	CORO1A-AS1	CORO1A antisense RNA 1	-0.702	3.405	Down
11151	CORO1A	coronin 1A	-0.772	3.359	Down
654483	BOLA2B	bolA family member 2B	-1.119	2.206	Down
1731	SEPTIN1	septin 1	-0.424	1.741	Down
79077	DCTPP1	dCTP pyrophosphatase 1	-1.307	5.615	Down
64319	FBRS	fibrosin	-0.848	2.446	Down
6810	STX4	syntaxin 4	-0.423	1.712	Down
10295	BCKDK	branched chain keto acid dehydrogenase kinase	-0.641	2.879	Down
2521	FUS	FUS RNA binding protein	-1.733	20.462	Down
79798	ARMC5	armadillo repeat containing 5	-0.676	1.907	Down
10308	ZNF267	zinc finger protein 267	-1.638	4.958	Down
606551	UBE2MP1	ubiquitin conjugating enzyme E2 M pseudogene 1	-0.994	2.828	Down
79801	SHCBP1	SHC binding and spindle associated 1	-2.053	5.155	Down
23594	ORC6	origin recognition complex subunit 6	-1.382	2.823	Down
388272	C16orf87	chromosome 16 open reading frame 87	-0.614	3.044	Down
84706	GPT2	glutamic--pyruvic transaminase 2	-3.085	8.791	Down
10294	DNAJA2	DnaJ heat shock protein family (Hsp40) member A2	-0.544	2.598	Down

81831	NETO2	neuropilin and tolloid like 2	-2.167	6.924	Down
64127	NOD2	nucleotide binding oligomerization domain containing 2	-2.067	7.466	Down
55239	OGFOD1	2-oxoglutarate and iron dependent oxygenase domain containing 1	-0.337	1.366	Down
4502	MT2A	metallothionein 2A	-3.631	11.539	Down
4500	MT1L	metallothionein 1L, pseudogene	-4.083	3.27	Down
4493	MT1E	metallothionein 1E	-4.644	5.639	Down
4498	MT1JP	metallothionein 1J, pseudogene	-5.702	4.123	Down
4494	MT1F	metallothionein 1F	-2.106	5.463	Down
4495	MT1G	metallothionein 1G	-5.017	9.324	Down
4496	MT1H	metallothionein 1H	-4.911	2.888	Down
4501	MT1X	metallothionein 1X	-2.467	13.653	Down
9688	NUP93	nucleoporin 93	-0.967	5.587	Down
9709	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1	-1.304	12.476	Down
6361	CCL17	C-C motif chemokine ligand 17	-3.514	1.475	Down
55715	DOK4	docking protein 4	-0.789	2.618	Down
92922	CCDC102A	coiled-coil domain containing 102A	-1.216	5.466	Down
221188	ADGRG5	adhesion G protein-coupled receptor G5	-2.031	2.434	Down
1.05E+08	LOC105371291	uncharacterized LOC105371291	-3.052	1.83	Down
79650	USB1	U6 snRNA biogenesis phosphodiesterase 1	-0.712	6.37	Down
29105	CFAP20	cilia and flagella associated protein 20	-0.634	2.572	Down
64785	GINS3	GINS complex subunit 3	-1.179	6.508	Down
2806	GOT2	glutamic-oxaloacetic transaminase 2	-0.794	3.471	Down
6236	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator	-2.307	2.234	Down
51647	CIAO2B	cytosolic iron-sulfur assembly component 2B	-1.088	4.532	Down
283848	CES4A	carboxylesterase 4A	-1.529	1.566	Down
865	CBFB	core-binding factor subunit beta	-0.789	2.894	Down
1874	E2F4	E2F transcription factor 4	-0.72	10.077	Down

29100	TMEM208	transmembrane protein 208	-1.218	5.4	Down
29109	FHOD1	formin homology 2 domain containing 1	-0.848	2.581	Down
3291	HSD11B2	hydroxysteroid 11-beta dehydrogenase 2	-4.441	2.598	Down
65057	ACD	ACD shelterin complex subunit and telomerase recruitment factor	-0.601	3.412	Down
10204	NUTF2	nuclear transport factor 2	-1.125	4.926	Down
5699	PSMB10	proteasome 20S subunit beta 10	-1.406	7.257	Down
54920	DUS2	dihydrouridine synthase 2	-0.743	3.289	Down
999	CDH1	cadherin 1	-2.289	5.008	Down
84916	UTP4	UTP4 small subunit processome component	-1.015	4.028	Down
51388	NIP7	nucleolar pre-rRNA processing protein NIP7	-1.039	5.814	Down
80777	CYB5B	cytochrome b5 type B	-0.72	2.667	Down
10725	NFAT5	nuclear factor of activated T cells 5	-0.971	2.912	Down
16	AARS1	alanyl-tRNA synthetase 1	-0.795	1.885	Down
23450	SF3B3	splicing factor 3b subunit 3	-0.691	2.304	Down
23035	PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	-0.561	1.482	Down
1723	DHODH	dihydroorotate dehydrogenase (quinone)	-0.495	1.797	Down
5713	PSMD7	proteasome 26S subunit, non-ATPase 7	-1.044	9.999	Down
3735	KARS1	lysyl-tRNA synthetase 1	-0.793	3.341	Down
57687	VAT1L	vesicle amine transport 1 like	-3.564	3.976	Down
4094	MAF	MAF bZIP transcription factor	-1.43	2.867	Down
1.05E+08	LOC105371356	uncharacterized LOC105371356	-4.152	2.083	Down
55839	CENPN	centromere protein N	-1.096	6.613	Down
123775	C16orf46	chromosome 16 open reading frame 46	-1.452	2.581	Down
2653	GCSH	glycine cleavage system protein H	-0.973	2.74	Down
10200	MPHOSPH6	M-phase phosphoprotein 6	-1.522	5.773	Down
3281	HSBP1	heat shock factor binding protein 1	-0.48	1.399	Down
51659	GINS2	GINS complex subunit 2	-3.308	11.653	Down

10328	EMC8	ER membrane protein complex subunit 8	-0.603	1.88	Down
3394	IRF8	interferon regulatory factor 8	-2.589	6.469	Down
1E+08	LOC100129215	uncharacterized LOC100129215	-2.346	1.622	Down
8140	SLC7A5	solute carrier family 7 member 5	-2.825	9.486	Down
84627	ZNF469	zinc finger protein 469	-0.859	1.346	Down
348180	CTU2	cytosolic thiouridylase subunit 2	-1.239	11.366	Down
81620	CDT1	chromatin licensing and DNA replication factor 1	-2.457	7.997	Down
353	APRT	adenine phosphoribosyltransferase	-0.562	1.944	Down
9605	VPS9D1	VPS9 domain containing 1	-0.891	3.189	Down
1E+08	VPS9D1-AS1	VPS9D1 antisense RNA 1	-2.719	14.899	Down
10381	TUBB3	tubulin beta 3 class III	-1.386	1.881	Down
8447	DOC2B	double C2 domain beta	-4.549	2.395	Down
359845	RFLNB	refilin B	-1.231	9.569	Down
79850	TLCD3A	TLC domain containing 3A	-1.245	4.01	Down
7531	YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon	-1.022	2.944	Down
4641	MYO1C	myosin IC	-1.021	3.686	Down
5306	PITPNA	phosphatidylinositol transfer protein alpha	-0.531	4.052	Down
84981	MIR22HG	MIR22 host gene	-1.59	6.182	Down
407004	MIR22	microRNA 22	-1.815	1.698	Down
6117	RPA1	replication protein A1	-0.49	1.714	Down
146760	RTN4RL1	reticulon 4 receptor like 1	-2.896	7.195	Down
1801	DPH1	diphthamide biosynthesis 1	-0.371	1.365	Down
124641	OVCA2	OVCA2 serine hydrolase domain containing	-0.57	2.511	Down
3090	HIC1	HIC ZBTB transcriptional repressor 1	-2.347	10.873	Down
63826	SRR	serine racemase	-0.782	4.917	Down
55720	TSR1	TSR1 ribosome maturation factor	-1.134	11.372	Down
23277	CLUH	clustered mitochondria homolog	-1.02	3.886	Down

1497	CTNS	cystinosin, lysosomal cystine transporter	-0.684	4.061	Down
1.01E+08	P2RX5-TAX1BP3	P2RX5-TAX1BP3 readthrough (NMD candidate)	-0.775	4.891	Down
5026	P2RX5	purinergic receptor P2X 5	-2.297	8.862	Down
83903	HASPIN	histone H3 associated protein kinase	-1.506	2.192	Down
10514	MYBBP1A	MYB binding protein 1a	-0.708	1.614	Down
5694	PSMB6	proteasome 20S subunit beta 6	-1.519	17.016	Down
5338	PLD2	phospholipase D2	-0.635	1.316	Down
1E+08	C17orf107	chromosome 17 open reading frame 107	-1.41	1.611	Down
8402	SLC25A11	solute carrier family 25 member 11	-0.699	3.965	Down
5216	PFN1	profilin 1	-1.176	6.628	Down
4927	NUP88	nucleoporin 88	-0.755	5.895	Down
708	C1QBP	complement C1q binding protein	-0.964	2.352	Down
56919	DHX33	DEAH-box helicase 33	-0.419	2.964	Down
79003	MIS12	MIS12 kinetochore complex component	-0.433	1.632	Down
84817	TXNDC17	thioredoxin domain containing 17	-1.26	5.535	Down
1.01E+08	RNASEK-C17orf49	RNASEK-C17orf49 readthrough	-0.863	5.749	Down
124944	C17orf49	chromosome 17 open reading frame 49	-1.962	12.073	Down
1.01E+08	MIR497HG	mir-497-195 cluster host gene	-2.037	13.643	Down
255877	BCL6B	BCL6B transcription repressor	-4.376	2.631	Down
201232	SLC16A13	solute carrier family 16 member 13	-1.322	6.276	Down
162515	SLC16A11	solute carrier family 16 member 11	-2.357	3.136	Down
37	ACADVL	acyl-CoA dehydrogenase very long chain	-0.76	3.879	Down
23587	ELP5	elongator acetyltransferase complex subunit 5	-0.68	1.805	Down
1984	EIF5A	eukaryotic translation initiation factor 5A	-1.947	9.272	Down
2256	FGF11	fibroblast growth factor 11	-0.91	1.39	Down
26168	SENP3	SUMO specific peptidase 3	-0.661	3.033	Down
1.01E+08	SENP3-EIF4A1	SENP3-EIF4A1 readthrough (NMD candidate)	-1.259	7.148	Down

1973	EIF4A1	eukaryotic translation initiation factor 4A1	-1.32	7.141	Down
9526	MPDU1	mannose-P-dolichol utilization defect 1	-1.834	20.793	Down
7157	TP53	tumor protein p53	-1.132	7.301	Down
23135	KDM6B	lysine demethylase 6B	-0.892	1.827	Down
1.08E+08	LOC107987244	uncharacterized LOC107987244	-0.852	1.517	Down
92162	TMEM88	transmembrane protein 88	-2.623	2.919	Down
5198	PFAS	phosphoribosylformylglycinamidine synthase	-1.749	15.891	Down
399512	SLC25A35	solute carrier family 25 member 35	-0.545	3.367	Down
29098	RANGRF	RAN guanine nucleotide release factor	-0.541	2.888	Down
60528	ELAC2	elaC ribonuclease Z 2	-0.421	3.889	Down
201161	CENPV	centromere protein V	-1.467	4.112	Down
7314	UBB	ubiquitin B	-1.385	8.698	Down
10400	PEMT	phosphatidylethanolamine N-methyltransferase	-0.562	1.674	Down
6720	SREBF1	sterol regulatory element binding transcription factor 1	-0.852	1.891	Down
51030	TVP23B	trans-golgi network vesicle protein 23 homolog B	-0.478	1.487	Down
25979	DHRS7B	dehydrogenase/reductase 7B	-0.995	2.828	Down
5606	MAP2K3	mitogen-activated protein kinase kinase 3	-0.559	3.506	Down
23666	UBBP4	ubiquitin B pseudogene 4	-1.318	5.014	Down
8844	KSR1	kinase suppressor of ras 1	-1.526	4.725	Down
27346	TMEM97	transmembrane protein 97	-0.83	1.874	Down
7126	TNFAIP1	TNF alpha induced protein 1	-0.391	1.527	Down
26073	POLDIP2	DNA polymerase delta interacting protein 2	-0.823	6.245	Down
9094	UNC119	unc-119 lipid binding chaperone	-0.859	4.966	Down
9618	TRAF4	TNF receptor associated factor 4	-3.725	25.201	Down
26284	ERAL1	Era like 12S mitochondrial rRNA chaperone 1	-0.895	5.655	Down
124930	ANKRD13B	ankyrin repeat domain 13B	-1.861	3.498	Down
9527	GOSR1	golgi SNAP receptor complex member 1	-0.406	1.667	Down

55352	COPRS	coordinator of PRMT5 and differentiation stimulator	-1.556	14.058	Down
55813	UTP6	UTP6 small subunit processome component	-1.188	7.545	Down
64149	C17orf75	chromosome 17 open reading frame 75	-0.396	1.902	Down
693217	MIR632	microRNA 632	-1.56	10.53	Down
7756	ZNF207	zinc finger protein 207	-1.454	24.235	Down
5717	PSMD11	proteasome 26S subunit, non-ATPase 11	-1.249	27.738	Down
3980	LIG3	DNA ligase 3	-0.397	1.772	Down
163	AP2B1	adaptor related protein complex 2 subunit beta 1	-0.474	3.015	Down
6348	CCL3	C-C motif chemokine ligand 3	-3.152	1.794	Down
6351	CCL4	C-C motif chemokine ligand 4	-3.578	8.153	Down
9560	CCL4L2	C-C motif chemokine ligand 4 like 2	-3.126	2.708	Down
80179	MYO19	myosin XIX	-0.704	5.768	Down
284098	PIGW	phosphatidylinositol glycan anchor biosynthesis class W	-1.362	8.453	Down
31	ACACA	acetyl-CoA carboxylase alpha	-1.094	2.785	Down
11072	DUSP14	dual specificity phosphatase 14	-0.643	2.081	Down
11056	DDX52	DExD-box helicase 52	-0.307	1.6	Down
57636	ARHGAP23	Rho GTPase activating protein 23	-1.705	2.495	Down
1E+08	EPOP	elongin BC and polycomb repressive complex 2 associated protein	-3.588	8.422	Down
1.05E+08	LOC105371763	uncharacterized LOC105371763	-0.869	2.091	Down
284106	CISD3	CDGSH iron sulfur domain 3	-1.518	8.493	Down
7703	PCGF2	polycomb group ring finger 2	-1.405	3.832	Down
5691	PSMB3	proteasome 20S subunit beta 3	-1.346	5.193	Down
54883	CWC25	CWC25 spliceosome associated protein homolog	-0.609	2.812	Down
57125	PLXDC1	plexin domain containing 1	-1.127	1.458	Down
84299	MIEN1	migration and invasion enhancer 1	-0.654	1.604	Down
124626	ZPBP2	zona pellucida binding protein 2	-2.441	1.385	Down
5709	PSMD3	proteasome 26S subunit, non-ATPase 3	-1.273	14.167	Down

9862	MED24	mediator complex subunit 24	-0.545	2.924	Down
990	CDC6	cell division cycle 6	-2.108	4.418	Down
125111	GJD3	gap junction protein delta 3	-1.165	1.379	Down
84951	TNS4	tensin 4	-2.582	4.646	Down
47	ACLY	ATP citrate lyase	-0.628	6.406	Down
7266	DNAJC7	DnaJ heat shock protein family (Hsp40) member C7	-0.568	6.357	Down
23415	KCNH4	potassium voltage-gated channel subfamily H member 4	-3.079	3.743	Down
6776	STAT5A	signal transducer and activator of transcription 5A	-0.535	2.989	Down
535	ATP6V0A1	ATPase H+ transporting V0 subunit a1	-0.459	1.796	Down
7283	TUBG1	tubulin gamma 1	-1.688	12	Down
2826	CCR10	C-C motif chemokine receptor 10	-1.517	1.38	Down
8506	CNTNAP1	contactin associated protein 1	-1.359	3.947	Down
84313	VPS25	vacuolar protein sorting 25 homolog	-0.667	2.806	Down
10197	PSME3	proteasome activator subunit 3	-1.309	9.205	Down
1.01E+08	PTGES3L-AARSD1	PTGES3L-AARSD1 readthrough	-0.872	1.995	Down
80755	AARSD1	alanyl-tRNA synthetase domain containing 1	-0.885	2.023	Down
3430	IFI35	interferon induced protein 35	-1.727	5.041	Down
124801	LSM12	LSM12 homolog	-0.761	8.964	Down
92579	G6PC3	glucose-6-phosphatase catalytic subunit 3	-0.864	3.86	Down
78995	HROB	homologous recombination factor with OB-fold	-1.302	1.583	Down
51629	SLC25A39	solute carrier family 25 member 39	-1.145	11.769	Down
3674	ITGA2B	integrin subunit alpha 2b	-1.409	1.438	Down
9343	EFTUD2	elongation factor Tu GTP binding domain containing 2	-0.871	3.933	Down
9570	GOSR2	golgi SNAP receptor complex member 2	-0.654	4.118	Down
996	CDC27	cell division cycle 27	-0.298	1.757	Down
9520	NPEPPS	aminopeptidase puromycin sensitive	-0.276	1.597	Down
1.12E+08	KPNB1-DT	KPNB1 divergent transcript	-0.481	2.828	Down

3837	KPNB1	karyopherin subunit beta 1	-0.752	2.613	Down
9755	TBKBP1	TBK1 binding protein 1	-1.222	1.699	Down
30009	TBX21	T-box transcription factor 21	-1.823	6.568	Down
1.01E+08	SP2-AS1	SP2 antisense RNA 1	-1.464	1.603	Down
55163	PNPO	pyridoxamine 5'-phosphate oxidase	-0.789	4.175	Down
29916	SNX11	sorting nexin 11	-1.356	8.276	Down
3219	HOXB9	homeobox B9	-5.639	3.334	Down
10241	CALCOCO2	calcium binding and coiled-coil domain 2	-0.508	2.251	Down
516	ATP5MC1	ATP synthase membrane subunit c locus 1	-1.438	4.744	Down
65264	UBE2Z	ubiquitin conjugating enzyme E2 Z	-0.77	3.467	Down
11267	SNF8	SNF8 subunit of ESCRT-II	-0.753	5.015	Down
2793	GNGT2	G protein subunit gamma transducin 2	-0.994	3.717	Down
5245	PHB1	prohibitin 1	-1.476	7.753	Down
10237	SLC35B1	solute carrier family 35 member B1	-1.273	11.949	Down
51264	MRPL27	mitochondrial ribosomal protein L27	-1.276	6.369	Down
146956	EME1	essential meiotic structure-specific endonuclease 1	-0.827	2.379	Down
55379	LRRC59	leucine rich repeat containing 59	-1.009	5.13	Down
91369	ANKRD40	ankyrin repeat domain 40	-0.406	1.435	Down
654364	NME1-NME2	NME1-NME2 readthrough	-1.495	9.993	Down
4830	NME1	NME/NM23 nucleoside diphosphate kinase 1	-3.169	29.122	Down
4831	NME2	NME/NM23 nucleoside diphosphate kinase 2	-1.153	4.798	Down
1.05E+08	LINC02073	long intergenic non-protein coding RNA 2073	-2.773	1.811	Down
3131	HLF	HLF transcription factor, PAR bZIP family member	-1.715	1.83	Down
23531	MMD	monocyte to macrophage differentiation associated	-0.932	1.912	Down
58488	PCTP	phosphatidylcholine transfer protein	-0.566	1.343	Down
8526	DGKE	diacylglycerol kinase epsilon	-0.69	3.146	Down
7706	TRIM25	tripartite motif containing 25	-0.832	2.505	Down

51649	MRPS23	mitochondrial ribosomal protein S23	-0.927	4.964	Down
6426	SRSF1	serine and arginine rich splicing factor 1	-1.646	26.051	Down
124535	HSF5	heat shock transcription factor 5	-0.829	3.241	Down
5889	RAD51C	RAD51 paralog C	-0.671	1.343	Down
1213	CLTC	clathrin heavy chain	-0.712	3.05	Down
51651	PTRH2	peptidyl-tRNA hydrolase 2	-0.506	1.402	Down
81671	VMP1	vacuole membrane protein 1	-0.632	1.925	Down
57508	INTS2	integrator complex subunit 2	-0.49	1.697	Down
339175	METTL2A	methyltransferase 2A, methylcytidine	-0.907	6.099	Down
1.08E+08	LOC107985020	uncharacterized LOC107985020	-2.489	1.636	Down
9902	MRC2	mannose receptor C type 2	-1.507	2.915	Down
57003	CCDC47	coiled-coil domain containing 47	-0.654	4.807	Down
117246	FTSJ3	FtsJ RNA 2'-O-methyltransferase 3	-0.752	5.186	Down
5705	PSMC5	proteasome 26S subunit, ATPase 5	-0.958	6.478	Down
1655	DDX5	DEAD-box helicase 5	-0.856	17.744	Down
8787	RGS9	regulator of G protein signaling 9	-1.512	3.151	Down
5718	PSMD12	proteasome 26S subunit, non-ATPase 12	-1.074	6.248	Down
25926	NOL11	nucleolar protein 11	-0.502	1.656	Down
284018	C17orf58	chromosome 17 open reading frame 58	-2.056	5.846	Down
3838	KPNA2	karyopherin subunit alpha 2	-1.746	13.16	Down
55062	WIPI1	WD repeat domain, phosphoinositide interacting 1	-0.811	2.718	Down
30833	NT5C	5', 3'-nucleotidase, cytosolic	-0.798	2.484	Down
1.08E+08	LOC107985034	uncharacterized LOC107985034	-0.855	5.146	Down
51155	JPT1	Jupiter microtubule associated homolog 1	-0.63	2.825	Down
79902	NUP85	nucleoporin 85	-0.361	1.617	Down
51081	MRPS7	mitochondrial ribosomal protein S7	-1.085	3.811	Down
60386	SLC25A19	solute carrier family 25 member 19	-0.847	2.349	Down

3021	H3-3B	H3.3 histone B	-0.445	1.371	Down
6730	SRP68	signal recognition particle 68	-0.301	1.34	Down
8811	GALR2	galanin receptor 2	-4.239	16.641	Down
23210	JMJD6	jumonji domain containing 6, arginine demethylase and lysine hydroxylase	-0.576	1.796	Down
6427	SRSF2	serine and arginine rich splicing factor 2	-1.83	19.257	Down
693221	MIR636	microRNA 636	-1.924	7.783	Down
79157	MFSD11	major facilitator superfamily domain containing 11	-1.201	7.416	Down
9144	SYNGR2	synaptogyrin 2	-1.301	7.985	Down
7083	TK1	thymidine kinase 1	-1.513	2.805	Down
125061	AFMID	arylformamidase	-1.378	2.188	Down
3959	LGALS3BP	galectin 3 binding protein	-0.465	1.848	Down
114897	C1QTNF1	C1q and TNF related 1	-3.351	4.165	Down
9775	EIF4A3	eukaryotic translation initiation factor 4A3	-0.933	5.001	Down
57674	RNF213	ring finger protein 213	-1.151	2.234	Down
1E+08	RNF213-AS1	RNF213 antisense RNA 1	-1.1	1.667	Down
284184	NDUFAF8	NADH:ubiquinone oxidoreductase complex assembly factor 8	-0.949	3.29	Down
71	ACTG1	actin gamma 1	-1.322	5.05	Down
80233	FAAP100	FA core complex associated protein 100	-0.531	1.619	Down
55666	NPLOC4	NPL4 homolog, ubiquitin recognition factor	-0.638	5.083	Down
6182	MRPL12	mitochondrial ribosomal protein L12	-1.689	10.115	Down
1468	SLC25A10	solute carrier family 25 member 10	-2.451	29.122	Down
396	ARHGDIA	Rho GDP dissociation inhibitor alpha	-0.755	4.773	Down
10189	ALYREF	Aly/REF export factor	-1.501	9.661	Down
51529	ANAPC11	anaphase promoting complex subunit 11	-0.801	2.206	Down
4097	MAFG	MAF bZIP transcription factor G	-1.166	7.878	Down
92659	MILIP	MYC inducible lncRNA inactivating p53	-3.65	2.764	Down
5831	PYCR1	pyrroline-5-carboxylate reductase 1	-4.179	25.201	Down

201254	CENPX	centromere protein X	-0.685	2.131	Down
2873	GPS1	G protein pathway suppressor 1	-0.546	2.966	Down
64118	DUS1L	dihydrouridine synthase 1 like	-0.7	4.274	Down
2194	FASN	fatty acid synthase	-1.305	3.673	Down
9123	SLC16A3	solute carrier family 16 member 3	-0.781	2.071	Down
6398	SECTM1	secreted and transmembrane 1	-1.182	2.416	Down
400629	TEX19	testis expressed 19	-4.968	3.603	Down
403340	MGC70870	C-terminal binding protein 2 pseudogene	-0.886	3.072	Down
9097	USP14	ubiquitin specific peptidase 14	-0.8	5.311	Down
9984	THOC1	THO complex subunit 1	-0.477	3.057	Down
494514	TYMSOS	TYMS opposite strand RNA	-2.163	2.107	Down
7298	TYMS	thymidylate synthetase	-1.771	5.423	Down
55556	ENOSF1	enolase superfamily member 1	-0.686	1.39	Down
9663	LPIN2	lipin 2	-0.703	7.14	Down
727896	CHORDC1P4	CHORDC1 pseudogene 4	-1.131	4.411	Down
4729	NDUFV2	NADH:ubiquinone oxidoreductase core subunit V2	-1.347	8.385	Down
9989	PPP4R1	protein phosphatase 4 regulatory subunit 1	-0.471	2.438	Down
9218	VAPA	VAMP associated protein A	-0.476	1.371	Down
8774	NAPG	NSF attachment protein gamma	-0.586	3.197	Down
10939	AFG3L2	AFG3 like matrix AAA peptidase subunit 2	-0.352	2.156	Down
56907	SPIRE1	spire type actin nucleation factor 1	-1.123	4.728	Down
81929	SEH1L	SEH1 like nucleoporin	-1.444	12.493	Down
125228	FAM210A	family with sequence similarity 210 member A	-0.569	2.685	Down
6632	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide	-1.309	9.63	Down
5932	RBBP8	RB binding protein 8, endonuclease	-2.096	5.97	Down
85019	TMEM241	transmembrane protein 241	-0.909	3.949	Down
8780	RIOK3	RIO kinase 3	-0.336	1.595	Down

1.08E+08	LOC107985139		-0.694	4.382	Down
7572	ZNF24	zinc finger protein 24	-0.525	2.092	Down
125476	INO80C	INO80 complex subunit C	-0.716	2.265	Down
25800	SLC39A6	solute carrier family 39 member 6	-0.323	2.111	Down
1.02E+08	SETBP1-DT	SETBP1 divergent transcript	-2.891	1.787	Down
26040	SETBP1	SET binding protein 1	-2.647	1.88	Down
10449	ACAA2	acetyl-CoA acyltransferase 2	-0.275	1.481	Down
4200	ME2	malic enzyme 2	-0.862	9.309	Down
8932	MBD2	methyl-CpG binding domain protein 2	-0.532	2.768	Down
5874	RAB27B	RAB27B, member RAS oncogene family	-1.382	1.866	Down
90701	SEC11C	SEC11 homolog C, signal peptidase complex subunit	-1.229	3.581	Down
3998	LMAN1	lectin, mannose binding 1	-1.295	19.499	Down
5366	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	-3.13	19.793	Down
8792	TNFRSF11A	TNF receptor superfamily member 11a	-1.531	2.901	Down
10666	CD226	CD226 molecule	-1.697	11.498	Down
29090	TIMM21	translocase of inner mitochondrial membrane 21	-0.556	2.292	Down
1528	CYB5A	cytochrome b5 type A	-1.526	7.988	Down
55748	CNDP2	carnosine dipeptidase 2	-0.342	1.925	Down
10907	TXNL4A	thioredoxin like 4A	-0.673	3.089	Down
79863	RBFA	ribosome binding factor A	-0.463	1.356	Down
22850	ADNP2	ADNP homeobox 2	-0.849	7.365	Down
682	BSG	basigin (Ok blood group)	-0.451	2.405	Down
10272	FSTL3	follistatin like 3	-1.659	4.248	Down
5725	PTBP1	polypyrimidine tract binding protein 1	-0.403	1.526	Down
57418	WDR18	WD repeat domain 18	-1.336	4.733	Down
5434	POLR2E	RNA polymerase II, I and III subunit E	-0.747	3.162	Down
26528	DAZAP1	DAZ associated protein 1	-0.703	3.255	Down

53615	MBD3	methyl-CpG binding domain protein 3	-0.459	2.372	Down
113179	ADAT3	adenosine deaminase tRNA specific 3	-0.548	1.323	Down
126308	MOB3A	MOB kinase activator 3A	-0.618	1.843	Down
113177	IZUMO4	IZUMO family member 4	-2.597	9.119	Down
4946	OAZ1	ornithine decarboxylase antizyme 1	-0.562	1.369	Down
51690	LSM7	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated	-0.629	1.716	Down
26517	TIMM13	translocase of inner mitochondrial membrane 13	-1.002	3.486	Down
84823	LMNB2	lamin B2	-1.185	5.035	Down
4616	GADD45B	growth arrest and DNA damage inducible beta	-0.947	2.218	Down
7064	THOP1	thimet oligopeptidase 1	-1.21	6.98	Down
2769	GNA15	G protein subunit alpha 15	-1.819	2.356	Down
1.01E+08	GNA15-DT	GNA15 divergent transcript	-1.909	2.762	Down
56926	NCLN	nicalin	-0.739	3.545	Down
83475	DOHH	deoxyhypusine hydroxylase	-0.784	2.733	Down
1.05E+08	LOC105372245	uncharacterized LOC105372245	-1.033	1.507	Down
9546	APBA3	amyloid beta precursor protein binding family A member 3	-0.496	1.782	Down
116541	MRPL54	mitochondrial ribosomal protein L54	-0.884	1.611	Down
51548	SIRT6	sirtuin 6	-0.967	4.977	Down
79187	FSD1	fibronectin type III and SPRY domain containing 1	-2.64	8.811	Down
55620	STAP2	signal transducing adaptor family member 2	-3.233	8.27	Down
84954	MPND	MPN domain containing	-0.451	1.989	Down
56005	MYDGF	myeloid derived growth factor	-1.057	4.007	Down
91039	DPP9	dipeptidyl peptidase 9	-0.563	1.667	Down
148022	TICAM1	TIR domain containing adaptor molecule 1	-1.005	4.118	Down
29128	UHRF1	ubiquitin like with PHD and ring finger domains 1	-2.482	3.867	Down
125988	MICOS13	mitochondrial contact site and cristae organizing system subunit 13	-0.727	1.647	Down
9361	LONP1	lon peptidase 1, mitochondrial	-0.688	1.825	Down

56931	DUS3L	dihydrouridine synthase 3 like	-0.67	1.541	Down
8192	CLPP	caseinolytic mitochondrial matrix peptidase proteolytic subunit	-0.525	1.524	Down
8570	KHSRP	KH-type splicing regulatory protein	-0.488	2.255	Down
1.01E+08	MIR3940	microRNA 3940	-0.715	2.284	Down
10382	TUBB4A	tubulin beta 4A class IVa	-1.269	2.707	Down
8744	TNFSF9	TNF superfamily member 9	-1.832	3.01	Down
970	CD70	CD70 molecule	-3.356	4.948	Down
8740	TNFSF14	TNF superfamily member 14	-1.465	7.057	Down
9322	TRIP10	thyroid hormone receptor interactor 10	-1.38	1.475	Down
10045	SH2D3A	SH2 domain containing 3A	-0.57	3.218	Down
6813	STXBP2	syntaxin binding protein 2	-0.381	2.014	Down
404217	CTXN1	cortexin 1	-3.05	3.726	Down
10469	TIMM44	translocase of inner mitochondrial membrane 44	-0.809	3.441	Down
1994	ELAVL1	ELAV like RNA binding protein 1	-0.648	4.405	Down
79603	CERS4	ceramide synthase 4	-0.741	2.846	Down
51293	CD320	CD320 molecule	-0.849	3.572	Down
4701	NDUFA7	NADH:ubiquinone oxidoreductase subunit A7	-0.735	2.636	Down
4670	HNRNPM	heterogeneous nuclear ribonucleoprotein M	-1.067	11.828	Down
1.08E+08	LOC107983991	replaced by ID 105372267	-2.159	2.398	Down
54811	ZNF562	zinc finger protein 562	-0.563	2.477	Down
56342	PPAN	peter pan homolog	-0.918	4.873	Down
692312	PPAN-P2RY11	PPAN-P2RY11 readthrough	-0.487	2.006	Down
9294	S1PR2	sphingosine-1-phosphate receptor 2	-0.929	2.383	Down
51073	MRPL4	mitochondrial ribosomal protein L4	-1.312	11.465	Down
3383	ICAM1	intercellular adhesion molecule 1	-2.303	4.323	Down
112812	FDX2	ferredoxin 2	-0.879	2.281	Down
125950	RAVER1	ribonucleoprotein, PTB binding 1	-0.533	2.551	Down

11140	CDC37	cell division cycle 37, HSP90 cochaperone	-0.875	4.655	Down
1E+08	MIR1181	microRNA 1181	-0.8	3.219	Down
9817	KEAP1	kelch like ECH associated protein 1	-0.649	3.746	Down
3609	ILF3	interleukin enhancer binding factor 3	-0.61	1.803	Down
81890	QTRT1	queuine tRNA-ribosyltransferase catalytic subunit 1	-1.251	8.272	Down
11018	TMED1	transmembrane p24 trafficking protein 1	-0.807	3.666	Down
10498	CARM1	coactivator associated arginine methyltransferase 1	-0.536	3.647	Down
1.15E+08	LDLR-AS1	LDLR antisense RNA 1	-2.819	4.9	Down
3949	LDLR	low density lipoprotein receptor	-2.456	4.436	Down
374882	TMEM205	transmembrane protein 205	-0.765	3.18	Down
64748	PLPPR2	phospholipid phosphatase related 2	-1.274	3.767	Down
664709	HNRNPA1P10	heterogeneous nuclear ribonucleoprotein A1 pseudogene 10	-0.709	2.301	Down
388507	ZNF788P	zinc finger family member 788, pseudogene	-2.087	3.219	Down
439	GET3	guided entry of tail-anchored proteins factor 3, ATPase	-0.754	2.205	Down
3726	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit	-0.945	2.612	Down
7001	PRDX2	peroxiredoxin 2	-0.752	1.839	Down
10535	RNASEH2A	ribonuclease H2 subunit A	-0.68	1.763	Down
2193	FARSA	phenylalanyl-tRNA synthetase subunit alpha	-0.971	6.868	Down
1.06E+08	FARSA-AS1	FARSA antisense RNA 1	-1.071	3.248	Down
811	CALR	calreticulin	-1.112	9.556	Down
5886	RAD23A	RAD23 homolog A, nucleotide excision repair protein	-0.451	2.172	Down
90480	GADD45GIP1	GADD45G interacting protein 1	-0.648	2.151	Down
4784	NFIX	nuclear factor I X	-1.478	6.611	Down
1.05E+08	LOC105372282	uncharacterized LOC105372282	-0.65	1.714	Down
55621	TRMT1	tRNA methyltransferase 1	-0.856	5.828	Down
112939	NACC1	nucleus accumbens associated 1	-0.788	4.522	Down
9592	IER2	immediate early response 2	-0.425	1.503	Down

284454	MIR23AHG	miR-23a/27a/24-2 cluster host gene	-1.086	1.482	Down
9466	IL27RA	interleukin 27 receptor subunit alpha	-1.087	9.632	Down
10212	DDX39A	DExD-box helicase 39A	-1.739	25.305	Down
10755	GIPC1	GIPC PDZ domain containing family member 1	-0.712	2.233	Down
58525	WIZ	WIZ zinc finger	-0.536	1.517	Down
64926	RASAL3	RAS protein activator like 3	-0.574	1.915	Down
7171	TPM4	tropomyosin 4	-1.416	3.608	Down
4218	RAB8A	RAB8A, member RAS oncogene family	-0.42	2.118	Down
126549	ANKLE1	ankyrin repeat and LEM domain containing 1	-1.103	1.53	Down
79016	DDA1	DET1 and DDB1 associated 1	-0.315	1.35	Down
684	BST2	bone marrow stromal cell antigen 2	-1.05	3.761	Down
115098	CCDC124	coiled-coil domain containing 124	-1.216	6.169	Down
3594	IL12RB1	interleukin 12 receptor subunit beta 1	-1.249	8.563	Down
84769	MPV17L2	MPV17 mitochondrial inner membrane protein like 2	-0.88	4.73	Down
3727	JUND	JunD proto-oncogene, AP-1 transcription factor subunit	-0.5	1.302	Down
170463	SSBP4	single stranded DNA binding protein 4	-0.594	1.462	Down
54555	DDX49	DEAD-box helicase 49	-0.565	2.451	Down
93436	ARMC6	armadillo repeat containing 6	-1.469	13.863	Down
729991	BORCS8	BLOC-1 related complex subunit 8	-0.823	2.518	Down
51079	NDUFA13	NADH:ubiquinone oxidoreductase subunit A13	-0.815	2.017	Down
148113	CILP2	cartilage intermediate layer protein 2	-1.346	3.245	Down
1.05E+08	LOC105372309	uncharacterized LOC105372309	-4.032	3.017	Down
7386	UQCRFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	-0.619	1.691	Down
10775	POP4	POP4 homolog, ribonuclease P/MRP subunit	-0.527	2.554	Down
83636	C19orf12	chromosome 19 open reading frame 12	-0.54	6.222	Down
898	CCNE1	cyclin E1	-1.887	4.698	Down
9141	PDCD5	programmed cell death 5	-1.02	6.176	Down

390916	NUDT19	nudix hydrolase 19	-0.484	1.92	Down
85415	RHPN2	rhophilin Rho GTPase binding protein 2	-1.639	2.213	Down
1054	CEBPG	CCAAT enhancer binding protein gamma	-0.794	4.089	Down
5184	PEPD	peptidase D	-0.474	2.027	Down
84306	PDCD2L	programmed cell death 2 like	-1.335	4.063	Down
10054	UBA2	ubiquitin like modifier activating enzyme 2	-0.368	1.552	Down
2865	FFAR3	free fatty acid receptor 3	-6.076	8.547	Down
2866	GPR42	G protein-coupled receptor 42	-5.694	4.918	Down
1.01E+08	TMEM147-AS1	TMEM147 antisense RNA 1	-0.65	1.625	Down
10430	TMEM147	transmembrane protein 147	-0.78	2.424	Down
79171	RBM42	RNA binding motif protein 42	-0.501	1.868	Down
27033	ZBTB32	zinc finger and BTB domain containing 32	-5.15	11.378	Down
55851	PSENEN	presenilin enhancer, gamma-secretase subunit	-0.792	4.603	Down
84063	KIRREL2	kirre like nephrin family adhesion molecule 2	-1.676	1.6	Down
84807	NFKBID	NFKB inhibitor delta	-3.133	9.511	Down
1155	TBCB	tubulin folding cofactor B	-0.692	2.373	Down
826	CAPNS1	calpain small subunit 1	-0.416	2.235	Down
10653	SPINT2	serine peptidase inhibitor, Kunitz type 2	-1.985	12.632	Down
90522	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein	-0.862	4.578	Down
5714	PSMD8	proteasome 26S subunit, non-ATPase 8	-1.16	7.913	Down
115727	RASGRP4	RAS guanyl releasing protein 4	-1.673	4.205	Down
6261	RYR1	ryanodine receptor 1	-1.27	3.706	Down
3191	HNRNPL	heterogeneous nuclear ribonucleoprotein L	-0.614	5.254	Down
4793	NFKBIB	NFKB inhibitor beta	-0.994	3.106	Down
643669	CCER2	coiled-coil glutamate rich protein 2	-1.119	2.443	Down
54938	SARS2	seryl-tRNA synthetase 2, mitochondrial	-0.928	4.361	Down
6183	MRPS12	mitochondrial ribosomal protein S12	-0.851	3.01	Down

10298	PAK4	p21 (RAC1) activated kinase 4	-0.607	2.4	Down
92609	TIMM50	translocase of inner mitochondrial membrane 50	-1.115	13.596	Down
400696	LGALS17A	galectin 14 pseudogene	-4.079	6.607	Down
56891	LGALS14	galectin 14	-2.796	3.209	Down
1178	CLC	Charcot-Leyden crystal galectin	-2.657	1.564	Down
8857	FCGBP	Fc gamma binding protein	-1.047	1.304	Down
5704	PSMC4	proteasome 26S subunit, ATPase 4	-1.429	16.601	Down
29950	SERTAD1	SERTA domain containing 1	-1.01	4.891	Down
284325	ACTMAP	actin maturation protease	-0.408	1.556	Down
6626	SNRPA	small nuclear ribonucleoprotein polypeptide A	-1.245	9.46	Down
55101	DMAC2	distal membrane arm assembly component 2	-0.518	4.147	Down
5452	POU2F2	POU class 2 homeobox 2	-0.782	1.346	Down
5050	PAFAH1B3	platelet activating factor acetylhydrolase 1b catalytic subunit 3	-0.614	1.583	Down
126298	IRGQ	immunity related GTPase Q	-1.4	4.706	Down
56006	SMG9	SMG9 nonsense mediated mRNA decay factor	-0.667	1.707	Down
3783	KCNN4	potassium calcium-activated channel subfamily N member 4	-1.147	3.264	Down
10452	TOMM40	translocase of outer mitochondrial membrane 40	-1.622	14.555	Down
5971	RELB	RELB proto-oncogene, NF-kB subunit	-2.248	13.693	Down
10849	POLR1G	RNA polymerase I subunit G	-0.777	1.791	Down
2067	ERCC1	ERCC excision repair 1, endonuclease non-catalytic subunit	-0.984	8.61	Down
6253	RTN2	reticulon 2	-1.208	1.793	Down
7408	VASP	vasodilator stimulated phosphoprotein	-1.042	8.053	Down
24139	EML2	EMAP like 2	-1.326	6.518	Down
1E+08	EML2-AS1	EML2 antisense RNA 1	-2.16	7.778	Down
5536	PPP5C	protein phosphatase 5 catalytic subunit	-1.188	15.052	Down
1.05E+08	LOC105372426	uncharacterized LOC105372426	-1.083	2.966	Down
94235	GNG8	G protein subunit gamma 8	-5.104	4.57	Down

147906	DACT3	dishevelled binding antagonist of beta catenin 3	-3.942	8.234	Down
6510	SLC1A5	solute carrier family 1 member 5	-2.821	11.923	Down
10055	SAE1	SUMO1 activating enzyme subunit 1	-0.697	4.922	Down
11133	KPTN	kaptin, actin binding protein	-0.989	3.825	Down
1.01E+08	NAPA-AS1	NAPA antisense RNA 1	-0.404	1.625	Down
8775	NAPA	NSF attachment protein alpha	-0.439	4.233	Down
2906	GRIN2D	glutamate ionotropic receptor NMDA type subunit 2D	-1.86	1.391	Down
83743	GRWD1	glutamate rich WD repeat containing 1	-0.844	4.049	Down
56848	SPHK2	sphingosine kinase 2	-0.508	1.624	Down
587	BCAT2	branched chain amino acid transaminase 2	-1.037	7.356	Down
23645	PPP1R15A	protein phosphatase 1 regulatory subunit 15A	-1.55	3.046	Down
581	BAX	BCL2 associated X, apoptosis regulator	-0.774	2.813	Down
10856	RUVBL2	RuvB like AAA ATPase 2	-1.398	9.784	Down
6625	SNRNP70	small nuclear ribonucleoprotein U1 subunit 70	-1.046	2.647	Down
8541	PPFIA3	PTPRF interacting protein alpha 3	-1.301	3.125	Down
3276	PRMT1	protein arginine methyltransferase 1	-2.459	23.554	Down
259307	IL4I1	interleukin 4 induced 1	-2.61	9.661	Down
23636	NUP62	nucleoporin 62	-1.36	14.24	Down
22809	ATF5	activating transcription factor 5	-1.445	4.094	Down
1.01E+08	MIR4751	microRNA 4751	-1.274	2.287	Down
3748	KCNC3	potassium voltage-gated channel subfamily C member 3	-1.918	2.447	Down
9476	NAPSA	napsin A aspartic peptidase	-3.428	4.202	Down
7376	NR1H2	nuclear receptor subfamily 1 group H member 2	-0.438	1.44	Down
5424	POLD1	DNA polymerase delta 1, catalytic subunit	-0.718	3.078	Down
126119	JOSD2	Josephin domain containing 2	-0.544	1.38	Down
147645	VSIG10L	V-set and immunoglobulin domain containing 10 like	-2.605	5.219	Down
89790	SIGLEC10	sialic acid binding Ig like lectin 10	-1.703	1.318	Down

80110	ZNF614	zinc finger protein 614	-0.583	2.168	Down
5518	PPP2R1A	protein phosphatase 2 scaffold subunit Aalpha	-0.503	2.921	Down
26121	PRPF31	pre-mRNA processing factor 31	-0.597	5.591	Down
23640	HSPBP1	HSPA (Hsp70) binding protein 1	-1.29	9.679	Down
84446	BRSK1	BR serine/threonine kinase 1	-1.906	3.634	Down
27338	UBE2S	ubiquitin conjugating enzyme E2 S	-1.493	8.674	Down
79763	ISOC2	isochorismatase domain containing 2	-1.167	3.002	Down
11338	U2AF2	U2 small nuclear RNA auxiliary factor 2	-0.5	2.693	Down
27243	CHMP2A	charged multivesicular body protein 2A	-0.84	3.614	Down
9040	UBE2M	ubiquitin conjugating enzyme E2 M	-0.879	3.134	Down
80023	NRSN2	neurensin 2	-1.322	3.375	Down
1457	CSNK2A1	casein kinase 2 alpha 1	-0.528	2.582	Down
1.01E+08	FKBP1A-SDCBP2	FKBP1A-SDCBP2 readthrough (NMD candidate)	-0.964	5.592	Down
2280	FKBP1A	FKBP prolyl isomerase 1A	-1.055	7.25	Down
55968	NSFL1C	NSFL1 cofactor	-0.581	2.255	Down
6628	SNRPB	small nuclear ribonucleoprotein polypeptides B and B1	-1.123	6.229	Down
10528	NOP56	NOP56 ribonucleoprotein	-0.579	4.122	Down
3420	IDH3B	isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit beta	-0.667	4.732	Down
56265	CPXM1	carboxypeptidase X, M14 family member 1	-2.279	4.399	Down
60493	FASTKD5	FAST kinase domains 5	-0.408	1.987	Down
3704	ITPA	inosine triphosphatase	-0.741	2.638	Down
83959	SLC4A11	solute carrier family 4 member 11	-1.95	1.452	Down
54976	C20orf27	chromosome 20 open reading frame 27	-0.535	1.635	Down
9770	RASSF2	Ras association domain family member 2	-1.175	3.588	Down
5111	PCNA	proliferating cell nuclear antigen	-0.896	3.752	Down
1E+08	PCNA-AS1	PCNA antisense RNA 1	-0.856	2.702	Down
51605	TRMT6	tRNA methyltransferase 6 non-catalytic subunit	-0.663	3.821	Down

54675	CRLS1	cardiolipin synthase 1	-0.674	2.382	Down
51575	ESF1	ESF1 nucleolar pre-rRNA processing protein homolog	-0.72	3.597	Down
6629	SNRPB2	small nuclear ribonucleoprotein polypeptide B2	-0.905	4.958	Down
692086	SNORD17	small nucleolar RNA, C/D box 17	-1.802	2.556	Down
10621	POLR3F	RNA polymerase III subunit F	-0.571	2.06	Down
10741	RBBP9	RB binding protein 9, serine hydrolase	-0.832	4.145	Down
10483	SEC23B	SEC23 homolog B, COPII coat complex component	-1.011	5.485	Down
92675	DTD1	D-aminoacyl-tRNA deacylase 1	-0.839	3.194	Down
51126	NAA20	N-alpha-acetyltransferase 20, NatB catalytic subunit	-0.867	2.746	Down
29107	NXT1	nuclear transport factor 2 like export factor 1	-0.767	1.924	Down
9837	GINS1	GINS complex subunit 1	-2.111	7.28	Down
140838	NANP	N-acetylneuraminic acid phosphatase	-1.029	4.231	Down
598	BCL2L1	BCL2 like 1	-2.972	13.024	Down
1.03E+08	ABALON	apoptotic BCL2L1-antisense long non-coding RNA	-2.795	12.823	Down
22974	TPX2	TPX2 microtubule nucleation factor	-1.136	2.092	Down
5326	PLAGL2	PLAG1 like zinc finger 2	-1.554	18.006	Down
23509	POFUT1	protein O-fucosyltransferase 1	-0.424	3.437	Down
9371	KIF3B	kinesin family member 3B	-0.763	5.409	Down
149951	COMMD7	COMM domain containing 7	-0.495	1.418	Down
22919	MAPRE1	microtubule associated protein RP/EB family member 1	-1.026	3.77	Down
51654	CDK5RAP1	CDK5 regulatory subunit associated protein 1	-0.449	1.468	Down
1869	E2F1	E2F transcription factor 1	-1.318	2.522	Down
8894	EIF2S2	eukaryotic translation initiation factor 2 subunit beta	-0.831	2.56	Down
191	AHCY	adenosylhomocysteinase	-0.743	1.96	Down
84557	MAP1LC3A	microtubule associated protein 1 light chain 3 alpha	-1.634	3.042	Down
58476	TP53INP2	tumor protein p53 inducible nuclear protein 2	-1.231	2.42	Down
55902	ACSS2	acyl-CoA synthetase short chain family member 2	-0.519	1.319	Down

2937	GSS	glutathione synthetase	-0.344	1.46	Down
26133	TRPC4AP	transient receptor potential cation channel subfamily C member 4 associated protein	-0.362	2.388	Down
3692	EIF6	eukaryotic translation initiation factor 6	-1.104	7.702	Down
10137	RBM12	RNA binding motif protein 12	-0.746	2.833	Down
140823	ROMO1	reactive oxygen species modulator 1	-0.992	2.169	Down
60436	TGIF2	TGFB induced factor homeobox 2	-1.184	9.513	Down
1.01E+08	TGIF2-RAB5IF	TGIF2-RAB5IF readthrough	-0.903	5.031	Down
55969	RAB5IF	RAB5 interacting factor	-0.853	3.949	Down
56259	CTNNBL1	catenin beta like 1	-0.458	2.407	Down
7150	TOP1	DNA topoisomerase I	-0.728	3.527	Down
1.02E+08	PLCG1-AS1	PLCG1 antisense RNA 1	-0.556	1.626	Down
6431	SRSF6	serine and arginine rich splicing factor 6	-1.217	4.51	Down
4605	MYBL2	MYB proto-oncogene like 2	-2.301	2.805	Down
84969	TOX2	TOX high mobility group box family member 2	-0.845	1.646	Down
79183	TTPAL	alpha tocopherol transfer protein like	-0.737	1.494	Down
10953	TOMM34	translocase of outer mitochondrial membrane 34	-1.099	9.455	Down
6385	SDC4	syndecan 4	-2.166	4.923	Down
11065	UBE2C	ubiquitin conjugating enzyme E2 C	-1.49	2.191	Down
57727	NCOA5	nuclear receptor coactivator 5	-0.428	1.822	Down
8202	NCOA3	nuclear receptor coactivator 3	-1.186	3.445	Down
1434	CSE1L	chromosome segregation 1 like	-0.841	4.566	Down
5740	PTGIS	prostaglandin I2 synthase	-5.512	3.061	Down
9334	B4GALT5	beta-1,4-galactosyltransferase 5	-1.575	8.499	Down
8813	DPM1	dolichyl-phosphate mannosyltransferase subunit 1, catalytic	-0.455	1.419	Down
4773	NFATC2	nuclear factor of activated T cells 2	-0.538	1.95	Down
6790	AURKA	aurora kinase A	-1.321	5.844	Down
51497	NELFCD	negative elongation factor complex member C/D	-0.402	2.741	Down

51012	PRELID3B	PRELI domain containing 3B	-0.727	4.57	Down
5688	PSMA7	proteasome 20S subunit alpha 7	-1.162	4.771	Down
11047	ADRM1	ADRM1 26S proteasome ubiquitin receptor	-1.107	8.764	Down
1.05E+08	LOC105372707		-1.216	7.431	Down
28231	SLCO4A1	solute carrier organic anion transporter family member 4A1	-0.696	1.695	Down
11054	OGFR	opioid growth factor receptor	-0.389	1.311	Down
1917	EEF1A2	eukaryotic translation elongation factor 1 alpha 2	-1.277	1.539	Down
1.01E+08	RTEL1-TNFRSF6B	RTEL1-TNFRSF6B readthrough (NMD candidate)	-0.913	1.81	Down
51750	RTEL1	regulator of telomere elongation helicase 1	-0.981	2.315	Down
54963	UCKL1	uridine-cytidine kinase 1 like 1	-0.523	1.809	Down
140700	SAMD10	sterile alpha motif domain containing 10	-1.153	3.276	Down
1.03E+08	LOC102724159	periodic tryptophan protein 2 homolog	-0.919	5.926	Down
1.03E+08	LOC102724428	salt inducible kinase 1B (putative)	-1.21	3.144	Down
1.03E+08	LOC102724560	cystathionine beta-synthase like	-3.617	4.239	Down
1.03E+08	LOC102724594	U2 small nuclear RNA auxiliary factor 1 like 5	-0.73	7.664	Down
6782	HSPA13	heat shock protein family A (Hsp70) member 13	-0.653	1.838	Down
64092	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1	-0.811	1.892	Down
10950	BTG3	BTG anti-proliferation factor 3	-0.535	1.839	Down
1.05E+08	LINC01684	long intergenic non-protein coding RNA 1684	-2.005	1.405	Down
54072	LINC00158	long intergenic non-protein coding RNA 158	-3.714	3.287	Down
114614	MIR155HG	MIR155 host gene	-6.229	12.412	Down
406947	MIR155	microRNA 155	-6.256	10.838	Down
54148	MRPL39	mitochondrial ribosomal protein L39	-0.79	6.87	Down
10694	CCT8	chaperonin containing TCP1 subunit 8	-0.88	5.907	Down
6647	SOD1	superoxide dismutase 1	-0.505	1.416	Down
56246	MRAP	melanocortin 2 receptor accessory protein	-0.75	1.329	Down
9875	URB1	URB1 ribosome biogenesis homolog	-0.769	3.677	Down

1.1E+08	CFAP298-TCP10L	CFAP298-TCP10L readthrough	-0.583	2.634	Down
56683	CFAP298	cilia and flagella associated protein 298	-0.524	2.213	Down
2618	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	-1.165	8.348	Down
29980	DONSON	DNA replication fork stabilization factor DONSON	-0.775	3.093	Down
54102	CLIC6	chloride intracellular channel 6	-1.69	1.786	Down
861	RUNX1	RUNX family transcription factor 1	-0.537	2.113	Down
1E+08	CBR1-AS1	CBR1 antisense RNA 1	-0.567	1.486	Down
873	CBR1	carbonyl reductase 1	-0.538	1.931	Down
8208	CHAF1B	chromatin assembly factor 1 subunit B	-1.253	4.194	Down
2114	ETS2	ETS proto-oncogene 2, transcription factor	-0.447	1.556	Down
8624	PSMG1	proteasome assembly chaperone 1	-0.749	4.474	Down
3150	HMGN1	high mobility group nucleosome binding domain 1	-0.435	1.643	Down
49854	ZBTB21	zinc finger and BTB domain containing 21	-0.787	7.774	Down
64699	TMPRSS3	transmembrane serine protease 3	-1.919	3.317	Down
54020	SLC37A1	solute carrier family 37 member 1	-1.171	4.116	Down
1.08E+08	LOC107987299	uncharacterized LOC107987299	-1.119	1.562	Down
10785	WDR4	WD repeat domain 4	-1.701	14.251	Down
875	CBS	cystathionine beta-synthase	-3.485	4.267	Down
7307	U2AF1	U2 small nuclear RNA auxiliary factor 1	-0.724	7.593	Down
150094	SIK1	salt inducible kinase 1	-1.247	2.73	Down
8568	RRP1	ribosomal RNA processing 1	-0.75	4.664	Down
56894	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3	-0.692	3.188	Down
5822	PWP2	PWP2 small subunit processome component	-0.839	4.033	Down
7327	UBE2G2	ubiquitin conjugating enzyme E2 G2	-0.458	2.666	Down
6612	SUMO3	small ubiquitin like modifier 3	-0.684	3.867	Down
84536	LINC01547	long intergenic non-protein coding RNA 1547	-1.444	2.441	Down

85395	SLX9	SLX9 ribosome biogenesis factor	-0.797	4.655	Down
6573	SLC19A1	solute carrier family 19 member 1	-0.803	2.405	Down
57553	MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3	-1.329	2.006	Down
11274	USP18	ubiquitin specific peptidase 18	-1.072	1.326	Down
2679	GGT3P	gamma-glutamyltransferase 3 pseudogene	-1.923	1.88	Down
25786	DGCR11	DiGeorge syndrome critical region gene 11	-1.801	2.716	Down
7353	UFD1	ubiquitin recognition factor in ER associated degradation 1	-0.53	1.496	Down
8318	CDC45	cell division cycle 45	-3.18	6.252	Down
54487	DGCR8	DGCR8 microprocessor complex subunit	-0.764	6.946	Down
1E+08	MIR1306	microRNA 1306	-0.982	2.032	Down
5902	RANBP1	RAN binding protein 1	-1.623	16.587	Down
373856	USP41	ubiquitin specific peptidase 41	-1.503	1.491	Down
728441	GGT2P	gamma-glutamyltransferase 2, pseudogene	-1.998	1.807	Down
7332	UBE2L3	ubiquitin conjugating enzyme E2 L3	-0.521	2.503	Down
23753	SDF2L1	stromal cell derived factor 2 like 1	-1.043	4.234	Down
96610	BMS1P20	BMS1 pseudogene 20	-0.535	3.13	Down
91227	GGTLC2	gamma-glutamyltransferase light chain 2	-2.107	2.711	Down
2781	GNAZ	G protein subunit alpha z	-0.852	1.348	Down
6598	SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	-0.745	4.085	Down
6634	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide	-0.339	1.883	Down
2678	GGT1	gamma-glutamyltransferase 1	-1.991	4.049	Down
7152	TOP1P2	DNA topoisomerase I pseudogene 2	-1.539	1.411	Down
57168	ASPHD2	aspartate beta-hydroxylase domain containing 2	-1.396	16.752	Down
23760	PITPNB	phosphatidylinositol transfer protein beta	-0.874	7.637	Down
7494	XBP1	X-box binding protein 1	-0.856	2.403	Down
2130	EWSR1	EWS RNA binding protein 1	-1.15	24.428	Down

162	AP1B1	adaptor related protein complex 1 subunit beta 1	-0.761	6.2	Down
4744	NEFH	neurofilament heavy chain	-1.938	1.965	Down
8563	THOC5	THO complex subunit 5	-0.415	2.52	Down
1.11E+08	LIF-AS1	LIF antisense RNA 1	-4.977	2.582	Down
3976	LIF	LIF interleukin 6 family cytokine	-6.535	13.744	Down
91370	LIF-AS2	LIF antisense RNA 2	-6.226	12.799	Down
5008	OSM	oncostatin M	-3.725	5.239	Down
23481	PES1	pescadillo ribosomal biogenesis factor 1	-1.078	9.694	Down
4733	DRG1	developmentally regulated GTP binding protein 1	-0.713	3.012	Down
23761	PISD	phosphatidylserine decarboxylase	-0.424	2.412	Down
51493	RTCB	RNA 2',3'-cyclic phosphate and 5'-OH ligase	-0.684	3.791	Down
3162	HMOX1	heme oxygenase 1	-2.081	4.7	Down
4174	MCM5	minichromosome maintenance complex component 5	-0.802	5.411	Down
80830	APOL6	apolipoprotein L6	-1.245	5.335	Down
80833	APOL3	apolipoprotein L3	-0.797	4.917	Down
23780	APOL2	apolipoprotein L2	-1.3	4.647	Down
8542	APOL1	apolipoprotein L1	-1.872	2.566	Down
1.12E+08	LOC112268296		-1.975	3.097	Down
7263	TST	thiosulfate sulfurtransferase	-1.737	3.445	Down
79734	KCTD17	potassium channel tetramerization domain containing 17	-0.829	2.002	Down
164656	TMPRSS6	transmembrane serine protease 6	-3.178	5.093	Down
3560	IL2RB	interleukin 2 receptor subunit beta	-1.573	5.044	Down
5880	RAC2	Rac family small GTPase 2	-0.468	2.746	Down
57026	PDXP	pyridoxal phosphatase	-0.587	2.236	Down
79159	NOL12	nucleolar protein 12	-0.776	4.202	Down
9463	PICK1	protein interacting with PRKCA 1	-0.574	1.818	Down
23764	MAFF	MAF bZIP transcription factor F	-1.124	1.68	Down

56993	TOMM22	translocase of outer mitochondrial membrane 22	-1.381	4.731	Down
23466	CBX6	chromobox 6	-0.503	1.943	Down
9582	APOBEC3B	apolipoprotein B mRNA editing enzyme catalytic subunit 3B	-1.335	2.053	Down
27350	APOBEC3C	apolipoprotein B mRNA editing enzyme catalytic subunit 3C	-0.885	5.628	Down
200316	APOBEC3F	apolipoprotein B mRNA editing enzyme catalytic subunit 3F	-0.79	2.629	Down
60489	APOBEC3G	apolipoprotein B mRNA editing enzyme catalytic subunit 3G	-1.01	1.485	Down
1.02E+08	LOC101927202	uncharacterized LOC101927202	-2.607	2.013	Down
113828	FAM83F	family with sequence similarity 83 member F	-3.167	5.044	Down
10478	SLC25A17	solute carrier family 25 member 17	-0.63	1.4	Down
9978	RBX1	ring-box 1	-1.01	3.145	Down
1.07E+08	SNORD140	small nucleolar RNA, C/D box 140	-1.493	4.513	Down
10766	TOB2	transducer of ERBB2, 2	-0.748	2.75	Down
84844	PHF5A	PHD finger protein 5A	-0.703	2.134	Down
50	ACO2	aconitase 2	-0.619	6.452	Down
171568	POLR3H	RNA polymerase III subunit H	-0.633	3.751	Down
27351	DESI1	desumoylating isopeptidase 1	-1.765	39.268	Down
2547	XRCC6	X-ray repair cross complementing 6	-0.842	4.321	Down
6721	SREBF2	sterol regulatory element binding transcription factor 2	-0.952	5.053	Down
440829	SHISA8	shisa family member 8	-0.902	4.512	Down
55964	SEPTIN3	septin 3	-1.809	1.818	Down
4668	NAGA	alpha-N-acetylgalactosaminidase	-0.461	3.612	Down
4700	NDUFA6	NADH:ubiquinone oxidoreductase subunit A6	-0.761	2.182	Down
388906	OGFRP1	opioid growth factor receptor pseudogene 1	-1.044	1.656	Down
27341	RRP7A	ribosomal RNA processing 7 homolog A	-0.654	1.468	Down
91695	RRP7BP	ribosomal RNA processing 7 homolog B, pseudogene	-0.714	2.076	Down
26286	ARFGAP3	ADP ribosylation factor GTPase activating protein 3	-0.463	1.607	Down
638	BIK	BCL2 interacting killer	-0.879	1.414	Down

23170	TTLL12	tubulin tyrosine ligase like 12	-0.81	2.222	Down
25813	SAMM50	SAMM50 sorting and assembly machinery component	-0.604	1.995	Down
29780	PARVB	parvin beta	-0.92	2.096	Down
55020	TTC38	tetratricopeptide repeat domain 38	-0.628	2.678	Down
79174	CRELD2	cysteine rich with EGF like domains 2	-1.427	8.707	Down
1.08E+08	LOC107985553		-1.661	3.155	Down
415116	PIM3	Pim-3 proto-oncogene, serine/threonine kinase	-1.13	2.598	Down
1.02E+08	MIR6821	microRNA 6821	-1.896	1.703	Down
56666	PANX2	pannexin 2	-3.669	12.514	Down
5600	MAPK11	mitogen-activated protein kinase 11	-1.805	2.707	Down
9997	SCO2	synthesis of cytochrome C oxidase 2	-1.333	2.417	Down
1890	TYMP	thymidine phosphorylase	-2.152	1.619	Down
440836	ODF3B	outer dense fiber of sperm tails 3B	-1.566	1.518	Down
1.05E+08	KLHDC7B-DT	KLHDC7B divergent transcript	-2.046	1.62	Down
1.03E+08	LOC102724563	transcription factor E2F6-like	-0.754	1.841	Down
8623	ASMTL	acetylserotonin O-methyltransferase like	-0.84	3.108	Down
412	STS	steroid sulfatase	-0.947	1.977	Down
3052	HCCS	holocytochrome c synthase	-0.91	6.313	Down
5931	RBBP7	RB binding protein 7, chromatin remodeling factor	-0.524	1.852	Down
4810	NHS	NHS actin remodeling regulator	-4.304	4.55	Down
10389	SCML2	Scm polycomb group protein like 2	-1.548	6.979	Down
5160	PDHA1	pyruvate dehydrogenase E1 subunit alpha 1	-0.592	3.828	Down
6611	SMS	spermine synthase	-1.279	10.282	Down
10549	PRDX4	peroxiredoxin 4	-1.455	4.035	Down
23597	ACOT9	acyl-CoA thioesterase 9	-0.75	2.53	Down
79135	APOO	apolipoprotein O	-1.009	2.802	Down
5422	POLA1	DNA polymerase alpha 1, catalytic subunit	-0.719	2.262	Down

80231	TASL	TLR adaptor interacting with endolysosomal SLC15A4	-1.11	1.632	Down
2710	GK	glycerol kinase	-1.253	3.15	Down
1756	DMD	dystrophin	-2.031	1.666	Down
6990	DYNLT3	dynein light chain Tctex-type 3	-0.463	2.259	Down
4128	MAOA	monoamine oxidase A	-4.11	5.426	Down
2002	ELK1	ETS transcription factor ELK1	-0.834	8.875	Down
92745	SLC38A5	solute carrier family 38 member 5	-2.369	43.682	Down
24140	FTSJ1	FtsJ RNA 2'-O-methyltransferase 1	-0.553	1.718	Down
10682	EBP	EBP cholestenol delta-isomerase	-1.006	6.016	Down
5935	RBM3	RNA binding motif protein 3	-1.107	5.371	Down
11040	PIM2	Pim-2 proto-oncogene, serine/threonine kinase	-1.293	2.376	Down
55593	OTUD5	OTU deubiquitinase 5	-0.704	9.807	Down
7030	TFE3	transcription factor binding to IGHM enhancer 3	-0.96	3.799	Down
6855	SYP	synaptophysin	-3.816	12.53	Down
28952	CCDC22	coiled-coil domain containing 22	-0.508	2.457	Down
50943	FOXP3	forkhead box P3	-1.151	1.688	Down
1.03E+08	KANTR	KANTR integral membrane protein	-1.088	3.359	Down
3028	HSD17B10	hydroxysteroid 17-beta dehydrogenase 10	-1.122	8.23	Down
10075	HUWE1	HECT, UBA and WWE domain containing E3 ubiquitin protein ligase 1	-1.781	7.864	Down
81887	LAS1L	LAS1 like ribosome biogenesis factor	-0.468	1.92	Down
286451	YIPF6	Yip1 domain family member 6	-0.403	1.671	Down
29934	SNX12	sorting nexin 12	-0.6	2.25	Down
3561	IL2RG	interleukin 2 receptor subunit gamma	-0.651	1.958	Down
55869	HDAC8	histone deacetylase 8	-0.958	5.036	Down
5255	PHKA1	phosphorylase kinase regulatory subunit alpha 1	-3.59	8.262	Down
51260	PBDC1	polysaccharide biosynthesis domain containing 1	-0.447	1.932	Down
84061	MAGT1	magnesium transporter 1	-0.42	1.467	Down

1349	COX7B	cytochrome c oxidase subunit 7B	-0.703	1.45	Down
441531	PGAM4	phosphoglycerate mutase family member 4	-1.746	7.16	Down
1.08E+08	LOC107985690	replaced by ID 84636	-0.857	1.919	Down
84636	GPR174	G protein-coupled receptor 174	-1.134	3.549	Down
139324	HDX	highly divergent homeobox	-2.543	2.493	Down
1478	CSTF2	cleavage stimulation factor subunit 2	-1.334	19.149	Down
1678	TIMM8A	translocase of inner mitochondrial membrane 8A	-0.689	3.314	Down
2717	GLA	galactosidase alpha	-0.681	1.682	Down
79868	ALG13	ALG13 UDP-N-acetylglucosaminyltransferase subunit	-0.543	1.666	Down
203427	SLC25A43	solute carrier family 25 member 43	-1.237	5.555	Down
1E+08	SLC25A5-AS1	SLC25A5 antisense RNA 1	-0.691	2.3	Down
292	SLC25A5	solute carrier family 25 member 5	-0.916	3.048	Down
7319	UBE2A	ubiquitin conjugating enzyme E2 A	-0.927	9.621	Down
28985	MCTS1	MCTS1 re-initiation and release factor	-0.635	1.915	Down
29071	C1GALT1C1	C1GALT1 specific chaperone 1	-0.74	1.825	Down
4952	OCRL	OCRL inositol polyphosphate-5-phosphatase	-0.691	1.415	Down
63035	BCORL1	BCL6 corepressor like 1	-0.683	2.992	Down
57826	RAP2C	RAP2C, member of RAS oncogene family	-0.808	4.97	Down
3251	HPRT1	hypoxanthine phosphoribosyltransferase 1	-0.868	2.42	Down
8933	RTL8C	retrotransposon Gag like 8C	-0.388	1.9	Down
1E+08	LINC00892	long intergenic non-protein coding RNA 892	-2.404	8.741	Down
959	CD40LG	CD40 ligand	-2.083	8.282	Down
27316	RBMX	RNA binding motif protein X-linked	-0.527	5.063	Down
2334	AFF2	ALF transcription elongation factor 2	-1.801	4.746	Down
10046	MAMLD1	mastermind like domain containing 1	-2.553	10.9	Down
4534	MTM1	myotubularin 1	-0.414	2.073	Down
8776	MTMR1	myotubularin related protein 1	-0.414	2.928	Down

3149	HMGB3	high mobility group box 3	-1.466	5.988	Down
50814	NSDHL	NAD(P) dependent steroid dehydrogenase-like	-0.924	4.195	Down
139735	ZFP92	ZFP92 zinc finger protein	-1.138	3.062	Down
55559	HAUS7	HAUS augmin like complex subunit 7	-0.498	2.424	Down
8260	NAA10	N-alpha-acetyltransferase 10, NatA catalytic subunit	-1.159	8.013	Down
3054	HCFC1	host cell factor C1	-0.667	1.411	Down
3654	IRAK1	interleukin 1 receptor associated kinase 1	-0.813	3.488	Down
2010	EMD	emerin	-0.431	1.394	Down
2664	GDI1	GDP dissociation inhibitor 1	-0.374	2.51	Down
2539	G6PD	glucose-6-phosphate dehydrogenase	-1.308	8.319	Down
8517	IKBKG	inhibitor of nuclear factor kappa B kinase regulatory subunit gamma	-0.392	1.772	Down
1736	DKC1	dyskerin pseudouridine synthase 1	-0.822	3.461	Down
7411	VBP1	VHL binding protein 1	-1.016	4.663	Down
116442	RAB39B	RAB39B, member RAS oncogene family	-0.421	1.35	Down
80772	CPTP	ceramide-1-phosphate transfer protein	0.604	4.331	Up
142678	MIB2	MIB E3 ubiquitin protein ligase 2	0.754	2.119	Up
728661	SLC35E2B	solute carrier family 35 member E2B	0.845	4.335	Up
9906	SLC35E2A	solute carrier family 35 member E2A	0.982	4.436	Up
6497	SKI	SKI proto-oncogene	1.07	2.225	Up
1953	MEGF6	multiple EGF like domains 6	2.239	9.015	Up
127262	TPRG1L	tumor protein p63 regulated 1 like	0.794	2.654	Up
55966	AJAP1	adherens junctions associated protein 1	4.204	3.237	Up
3104	ZBTB48	zinc finger and BTB domain containing 48	0.558	1.987	Up
9903	KLHL21	kelch like family member 21	0.664	2.476	Up
473	RERE	arginine-glutamic acid dipeptide repeats	0.647	1.527	Up
1.03E+08	RERE-AS1	RERE antisense RNA 1	2.392	1.736	Up
9563	H6PD	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	0.637	1.627	Up
5293	PIK3CD	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	0.319	4.091	Up
22883	CLSTN1	calsyntenin 1	0.605	2.564	Up
79363	CPLANE2	ciliogenesis and planar polarity effector complex subunit 2	0.751	2.246	Up
54455	FBXO42	F-box protein 42	0.34	2.342	Up
55672	NBPF1	NBPF member 1	1.385	2.987	Up
11240	PADI2	peptidyl arginine deiminase 2	2.935	2.061	Up
65018	PINK1	PTEN induced kinase 1	0.869	4.026	Up

1.12E+08	LOC112268222		0.376	1.899	Up
50809	HP1BP3	heterochromatin protein 1 binding protein 3	0.401	1.485	Up
80818	ZNF436	zinc finger protein 436	0.608	3.256	Up
6920	TCEA3	transcription elongation factor A3	0.706	1.559	Up
3399	ID3	inhibitor of DNA binding 3	1.363	2.027	Up
259283	MDS2	myelodysplastic syndrome 2 translocation associated	2.498	4.585	Up
3155	HMGCL	3-hydroxy-3-methylglutaryl-CoA lyase	0.799	3.048	Up
2517	FUCA1	alpha-L-fucosidase 1	0.942	5.115	Up
57185	NIPAL3	NIPA like domain containing 3	0.799	6.438	Up
1.01E+08	RCAN3AS	RCAN3 antisense RNA	1.555	2.322	Up
11123	RCAN3	RCAN family member 3	1.302	14.814	Up
1.01E+08	NCMAP-DT	NCMAP divergent transcript	1.594	16.85	Up
25949	SYF2	SYF2 pre-mRNA splicing factor	0.587	1.894	Up
26119	LDLRAP1	low density lipoprotein receptor adaptor protein 1	2.371	17.65	Up
57134	MAN1C1	mannosidase alpha class 1C member 1	0.774	5.437	Up
149420	PDIK1L	PDLIM1 interacting kinase 1 like	0.599	2.665	Up
83442	SH3BGRL3	SH3 domain binding glutamate rich protein like 3	0.427	1.529	Up
91544	UBXN11	UBX domain protein 11	1.974	9.993	Up
1043	CD52	CD52 molecule	2.08	9.65	Up
63906	GPATCH3	G-patch domain containing 3	0.465	2.36	Up
23038	WDTC1	WD and tetratricopeptide repeats 1	0.465	1.781	Up
84958	SYTL1	synaptotagmin like 1	0.683	2.648	Up
1.05E+08	LOC105376892	uncharacterized LOC105376892	3.684	2.01	Up
27245	AHDC1	AT-hook DNA binding motif containing 1	0.693	1.963	Up
2268	FGR	FGR proto-oncogene, Src family tyrosine kinase	1.461	1.405	Up
199870	FAM76A	family with sequence similarity 76 member A	0.381	1.46	Up
9473	THEMIS2	thymocyte selection associated family member 2	1.116	2.256	Up
55113	XKR8	XK related 8	0.477	2.242	Up
85028	SNHG12	small nucleolar RNA host gene 12	1.429	3.58	Up
115273	RAB42	RAB42, member RAS oncogene family	3.83	3.178	Up
2035	EPB41	erythrocyte membrane protein band 4.1	1.119	5.995	Up
399474	TMEM200B	transmembrane protein 200B	1.249	5.993	Up
1E+08	MATN1-AS1	MATN1 antisense RNA 1	1.284	2.282	Up
7805	LAPTM5	lysosomal protein transmembrane 5	1.354	6.94	Up
3932	LCK	LCK proto-oncogene, Src family tyrosine kinase	0.464	1.484	Up
113451	AZIN2	antizyme inhibitor 2	1.874	4	Up
149076	ZNF362	zinc finger protein 362	1.192	7.499	Up
1912	PHC2	polyhomeotic homolog 2	0.42	1.374	Up
653160	GPR199P	G protein-coupled receptor 199, pseudogene	1.39	1.844	Up
79830	ZMYM1	zinc finger MYM-type containing 1	1.15	5.299	Up
79932	KIAA0319L	KIAA0319 like	0.552	1.607	Up
192670	AGO4	argonaute RISC component 4	1.26	4.131	Up
1296	COL8A2	collagen type VIII alpha 2 chain	2.341	1.772	Up
55194	EVA1B	eva-1 homolog B	1.223	3.94	Up
1441	CSF3R	colony stimulating factor 3 receptor	2.354	2.723	Up
3633	INPP5B	inositol polyphosphate-5-phosphatase B	0.464	1.641	Up
51440	HPCAL4	hippocalcin like 4	2.145	18.948	Up

728621	CCDC30	coiled-coil domain containing 30	0.531	1.352	Up
79078	C1orf50	chromosome 1 open reading frame 50	0.354	1.35	Up
51058	ZNF691	zinc finger protein 691	0.651	1.797	Up
81888	HYI	hydroxypyruvate isomerase (putative)	0.732	1.471	Up
6487	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	0.563	2.669	Up
55182	RNF220	ring finger protein 220	0.272	1.473	Up
9813	EFCAB14	EF-hand calcium binding domain 14	0.376	1.536	Up
84793	FOXD2-AS1	FOXD2 adjacent opposite strand RNA 1	1.036	3.194	Up
79656	BEND5	BEN domain containing 5	1.521	3.526	Up
1031	CDKN2C	cyclin dependent kinase inhibitor 2C	0.835	1.353	Up
9372	ZFYVE9	zinc finger FYVE-type containing 9	0.651	1.72	Up
23318	TUT4	terminal uridylyl transferase 4	0.775	4.615	Up
348378	SHISAL2A	shisa like 2A	1.968	14.109	Up
1.08E+08	LINC02812	long intergenic non-protein coding RNA 2812	1.78	1.591	Up
54432	YIPF1	Yip1 domain family member 1	0.558	1.509	Up
606495	CYB5RL	cytochrome b5 reductase like	0.719	1.76	Up
8613	PLPP3	phospholipid phosphatase 3	3.464	5.4	Up
1600	DAB1	DAB adaptor protein 1	1.851	1.574	Up
1E+08	LINC01135	long intergenic non-protein coding RNA 1135	2.947	3.758	Up
4774	NFIA	nuclear factor I A	1.639	8.751	Up
57685	CACHD1	cache domain containing 1	1.951	1.558	Up
3716	JAK1	Janus kinase 1	0.472	1.394	Up
79819	DNAI4	dynein axonemal intermediate chain 4	1.431	1.666	Up
256435	ST6GALNAC3	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	2.296	2.521	Up
26289	AK5	adenylate kinase 5	2.37	5.883	Up
374986	MIGA1	mitoguardin 1	0.816	5.722	Up
5567	PRKACB	protein kinase cAMP-activated catalytic subunit beta	1.261	2.456	Up
1486	CTBS	chitobiase	0.49	3.073	Up
84144	SYDE2	synapse defective Rho GTPase homolog 2	1.158	3.745	Up
57489	ODF2L	outer dense fiber of sperm tails 2 like	0.56	2.991	Up
5586	PKN2	protein kinase N2	0.47	2.115	Up
7049	TGFBR3	transforming growth factor beta receptor 3	0.786	2.471	Up
23285	KIAA1107	replaced by ID 284697	1.756	3.185	Up
1806	DPYD	dihydropyrimidine dehydrogenase	0.967	2.142	Up
1.01E+08	DPYD-AS1	DPYD antisense RNA 1	0.964	1.422	Up
1629	DBT	dihydrolipoamide branched chain transacylase E2	0.649	2.186	Up
8556	CDC14A	cell division cycle 14A	0.69	3.211	Up
1.03E+08	DPH5-DT	DPH5 divergent transcript	0.742	1.354	Up
1901	S1PR1	sphingosine-1-phosphate receptor 1	0.615	1.681	Up
1.03E+08	LOC102723784	uncharacterized LOC102723784	2.472	3.584	Up
280	AMY2B	amylase alpha 2B	1.295	1.533	Up
56900	TMEM167B	transmembrane protein 167B	0.379	2.271	Up
57535	ELAPOR1	endosome-lysosome associated apoptosis and autophagy regulator 1	0.888	5.424	Up
1952	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2	0.938	1.883	Up
6272	SORT1	sortilin 1	2.208	5.897	Up

57463	AMIGO1	adhesion molecule with Ig like domain 1	2.096	8.004	Up
257	ALX3	ALX homeobox 3	0.869	1.517	Up
128338	DRAM2	DNA damage regulated autophagy modulator 2	0.853	1.542	Up
79961	DENND2D	DENN domain containing 2D	0.985	2.453	Up
1117	CHI3L2	chitinase 3 like 2	1.601	1.996	Up
5016	OVGP1	oviductal glycoprotein 1	1.691	1.94	Up
128346	C1orf162	chromosome 1 open reading frame 162	1.111	3.272	Up
9860	LRIG2	leucine rich repeats and immunoglobulin like domains 2	1.094	3.499	Up
260425	MAGI3	membrane associated guanylate kinase, WW and PDZ domain containing 3	0.831	2.23	Up
7812	CSDE1	cold shock domain containing E1	0.476	1.369	Up
10100	TSPAN2	tetraspanin 2	1.095	1.31	Up
476	ATP1A1	ATPase Na+/K+ transporting subunit alpha 1	0.521	4.635	Up
84852	ATP1A1-AS1	ATP1A1 antisense RNA 1	0.572	3.899	Up
1.05E+08	LOC105378954		0.859	2.098	Up
1.01E+08	PDE4DIPP2	PDE4DIP pseudogene 2	1.054	1.918	Up
1.08E+08	LOC107985524	uncharacterized LOC107985524	0.996	2.215	Up
653464	SRGAP2C	SLIT-ROBO Rho GTPase activating protein 2C	0.761	2.115	Up
1.08E+08	LINC02798	long intergenic non-protein coding RNA 2798	2.909	2.935	Up
647121	EMBP1	embigin pseudogene 1	0.899	2.637	Up
284565	NBPF15	NBPF member 15	1.341	5.023	Up
647135	SRGAP2B	SLIT-ROBO Rho GTPase activating protein 2B	0.773	2.119	Up
1.03E+08	LINC01145	long intergenic non-protein coding RNA 1145	0.682	1.479	Up
1.01E+08	LOC100996740	uncharacterized LOC100996740	0.846	1.677	Up
128077	LIX1L	limb and CNS expressed 1 like	0.403	1.591	Up
84265	POLR3GL	RNA polymerase III subunit GL	0.881	4.834	Up
10628	TXNIP	thioredoxin interacting protein	1.563	13.84	Up
1.01E+08	LOC100996756	uncharacterized LOC100996756	2.043	10.553	Up
51205	ACP6	acid phosphatase 6, lysophosphatidic	0.711	2.418	Up
1.05E+08	LOC105371224	uncharacterized LOC105371224	0.65	2.576	Up
9659	PDE4DIP	phosphodiesterase 4D interacting protein	0.923	2.6	Up
1.01E+08	NOTCH2NLC	notch 2 N-terminal like C	0.674	2.043	Up
57234	LINC00869	long intergenic non-protein coding RNA 869	0.747	1.908	Up
79630	C1orf54	chromosome 1 open reading frame 54	1.147	1.816	Up
23248	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.783	3.549	Up
8416	ANXA9	annexin A9	1.306	3.727	Up
55793	MINDY1	MINDY lysine 48 deubiquitinase 1	0.993	3.112	Up
54964	C1orf56	chromosome 1 open reading frame 56	0.578	1.884	Up
56882	CDC42SE1	CDC42 small effector 1	0.435	2.959	Up
10500	SEMA6C	semaphorin 6C	1.484	2.232	Up
79626	TNFAIP8L2	TNF alpha induced protein 8 like 2	1.382	7.015	Up
81609	SNX27	sorting nexin 27	0.473	1.611	Up

11189	CELF3	CUGBP Elav-like family member 3	0.552	2.202	Up
1.1E+08	TDRKH-AS1	TDRKH antisense RNA 1	1.297	1.578	Up
117145	THEM4	thioesterase superfamily member 4	0.92	2.531	Up
6279	S100A8	S100 calcium binding protein A8	2.384	2.211	Up
11000	SLC27A3	solute carrier family 27 member 3	1.117	2.791	Up
57198	ATP8B2	ATPase phospholipid transporting 8B2	0.971	4.827	Up
57326	PBXIP1	PBX homeobox interacting protein 1	1.889	46.57	Up
90780	PYGO2	pygopus family PHD finger 2	0.599	2.454	Up
1944	EFNA3	ephrin A3	1.008	2.583	Up
1942	EFNA1	ephrin A1	3.427	4.646	Up
84283	TMEM79	transmembrane protein 79	0.851	1.546	Up
112770	GLMP	glycosylated lysosomal membrane protein	0.619	2.741	Up
9826	ARHGEF11	Rho guanine nucleotide exchange factor 11	2.332	33.51	Up
913	CD1E	CD1e molecule	4.075	1.684	Up
4332	MNDA	myeloid cell nuclear differentiation antigen	4.093	1.972	Up
149628	PYHIN1	pyrin and HIN domain family member 1	0.694	1.419	Up
56833	SLAMF8	SLAM family member 8	1.424	2.214	Up
284677	SNHG28	small nucleolar RNA host gene 28	1.486	1.702	Up
50717	DCAF8	DDB1 and CUL4 associated factor 8	0.309	1.329	Up
114836	SLAMF6	SLAM family member 6	0.966	6.76	Up
4063	LY9	lymphocyte antigen 9	1.644	6.594	Up
27005	USP21	ubiquitin specific peptidase 21	0.721	2.561	Up
25903	OLFML2B	olfactomedin like 2B	4.295	2.154	Up
117157	SH2D1B	SH2 domain containing 1B	1.558	1.959	Up
5087	PBX1	PBX homeobox 1	2.347	1.961	Up
1.05E+08	LOC105371600	uncharacterized LOC105371600	3.905	3.018	Up
10223	GPA33	glycoprotein A33	3.496	18.28	Up
919	CD247	CD247 molecule	0.606	3.903	Up
8804	CREG1	cellular repressor of E1A stimulated genes 1	0.652	3.355	Up
92241	RCSD1	RCSD domain containing 1	1.082	2.03	Up
9095	TBX19	T-box transcription factor 19	1.479	2.919	Up
6402	SELL	selectin L	1.337	11.607	Up
8674	VAMP4	vesicle associated membrane protein 4	0.655	5.768	Up
26052	DNM3	dynamin 3	0.994	1.635	Up
5279	PIGC	phosphatidylinositol glycan anchor biosynthesis class C	0.728	2.419	Up
60674	GAS5	growth arrest specific 5	0.934	1.435	Up
1.07E+08	SNORA103	small nucleolar RNA, H/ACA box 103	0.893	1.422	Up
646976	RALGPS2-AS1	RALGPS2 antisense RNA 1	1.594	1.339	Up
55103	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2	1.237	8.719	Up
3140	MR1	major histocompatibility complex, class I-related	0.588	4.56	Up
6041	RNASEL	ribonuclease L	1.028	6.026	Up
4688	NCF2	neutrophil cytosolic factor 2	2.273	4.279	Up
1.08E+08	LOC107985235		3.918	1.524	Up
23179	RGL1	ral guanine nucleotide dissociation stimulator like 1	1.385	8.372	Up
81563	C1orf21	chromosome 1 open reading frame 21	1.502	1.426	Up

80267	EDEM3	ER degradation enhancing alpha-mannosidase like protein 3	0.472	2.191	Up
10625	IVNS1ABP	influenza virus NS1A binding protein	0.527	1.527	Up
64407	RGS18	regulator of G protein signaling 18	1.191	1.558	Up
5997	RGS2	regulator of G protein signaling 2	0.922	1.416	Up
3075	CFH	complement factor H	1.593	3.052	Up
360023	ZBTB41	zinc finger and BTB domain containing 41	0.943	5.835	Up
140609	NEK7	NIMA related kinase 7	0.507	3.928	Up
5788	PTPRC	protein tyrosine phosphatase receptor type C	0.779	7.733	Up
23271	CAMSAP2	calmodulin regulated spectrin associated protein family member 2	0.771	2.412	Up
59352	LGR6	leucine rich repeat containing G protein-coupled receptor 6	4.224	2.399	Up
4660	PPP1R12B	protein phosphatase 1 regulatory subunit 12B	0.93	1.314	Up
9580	SOX13	SRY-box transcription factor 13	1.234	1.446	Up
5972	REN	renin	3.232	2.598	Up
81788	NUAK2	NUAK family kinase 2	1.714	10.289	Up
148808	MFSD4A	major facilitator superfamily domain containing 4A	1.496	2.637	Up
338382	RAB7B	RAB7B, member RAS oncogene family	1.85	1.671	Up
1939	EIF2D	eukaryotic translation initiation factor 2D	0.54	1.619	Up
1.05E+08	LOC105372877		2.082	1.989	Up
1.05E+08	LOC105372879	uncharacterized LOC105372879	2.015	1.307	Up
11009	IL24	interleukin 24	2.526	22.113	Up
9214	FCMR	Fc mu receptor	2.455	15.131	Up
1378	CR1	complement C3b/C4b receptor 1 (Knops blood group)	4.559	4.193	Up
947	CD34	CD34 molecule	1.751	1.666	Up
7188	TRAF5	TNF receptor associated factor 5	0.512	3.228	Up
5525	PPP2R5A	protein phosphatase 2 regulatory subunit B'alpha	0.381	3.578	Up
375056	MIA3	MIA SH3 domain ER export factor 3	0.496	2.494	Up
7100	TLR5	toll like receptor 5	1.68	2.747	Up
55061	SUSD4	sushi domain containing 4	1.691	5.587	Up
1E+08	SEPTIN7P13	septin 7 pseudogene 13	0.865	1.946	Up
2052	EPHX1	epoxide hydrolase 1	1.754	10.858	Up
9725	TMEM63A	transmembrane protein 63A	1.281	7.251	Up
3707	ITPKB	inositol-trisphosphate 3-kinase B	0.765	1.977	Up
56997	COQ8A	coenzyme Q8A	0.64	2.68	Up
79169	C1orf35	chromosome 1 open reading frame 35	0.588	2.208	Up
84033	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	1.595	3.468	Up
1.02E+08	LOC101927401	uncharacterized LOC101927401	2.121	3.061	Up
92815	H2AC25	H2A clustered histone 25	0.904	2.036	Up
5867	RAB4A	RAB4A, member RAS oncogene family	0.399	1.925	Up
27185	DISC1	DISC1 scaffold protein	1.215	3.3	Up
80003	PCNX2	pecanex 2	1.276	2.345	Up
4548	MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	0.81	2.747	Up
64388	GREM2	gremlin 2, DAN family BMP antagonist	1.707	2.894	Up

8564	KMO	kynurenine 3-monooxygenase	1.305	3.713	Up
23596	OPN3	opsin 3	1.094	2.686	Up
10806	SDCCAG8	SHH signaling and ciliogenesis regulator SDCCAG8	0.493	2.639	Up
10000	AKT3	AKT serine/threonine kinase 3	0.65	4.773	Up
10472	ZBTB18	zinc finger and BTB domain containing 18	1.517	7.966	Up
163882	CNST	consortin, connexin sorting protein	0.598	2.159	Up
1.03E+08	LOC102724250	neuroblastoma breakpoint family member 1-like	1.397	2.322	Up
130813	C2orf50	chromosome 2 open reading frame 50	2.458	2.338	Up
130814	SLC66A3	solute carrier family 66 member 3	0.46	1.32	Up
1.05E+08	LOC105373431	uncharacterized LOC105373431	1.617	2.41	Up
28951	TRIB2	tribbles pseudokinase 2	1.491	6.357	Up
4613	MYCN	MYCN proto-oncogene, bHLH transcription factor	2.444	1.49	Up
64342	HS1BP3	HCLS1 binding protein 3	0.848	4.077	Up
54454	ATAD2B	ATPase family AAA domain containing 2B	0.696	1.722	Up
375190	FAM228B	family with sequence similarity 228 member B	1.357	5.835	Up
51277	DNAJC27	DnaJ heat shock protein family (Hsp40) member C27	0.847	2.359	Up
729723	DNAJC27-AS1	DNAJC27 antisense RNA 1	2.718	4.254	Up
2498	FTH1P3	ferritin heavy chain 1 pseudogene 3	0.91	2.453	Up
26160	IFT172	intraflagellar transport 172	1.087	3.153	Up
79635	CCDC121	coiled-coil domain containing 121	1.888	2.925	Up
151056	PLB1	phospholipase B1	1.518	2.468	Up
79745	CLIP4	CAP-Gly domain containing linker protein family member 4	0.696	3.949	Up
51646	YPEL5	yippee like 5	0.618	1.816	Up
81606	LBH	LBH regulator of WNT signaling pathway	1.232	2.415	Up
58484	NLRC4	NLR family CARD domain containing 4	1.267	1.487	Up
54497	HEATR5B	HEAT repeat containing 5B	0.992	6.223	Up
1.05E+08	LINC03063	long intergenic non-protein coding RNA 3063	1.249	2.644	Up
151393	RMDN2	regulator of microtubule dynamics 2	1.35	2.557	Up
1545	CYP1B1	cytochrome P450 family 1 subfamily B member 1	1.526	2.528	Up
8491	MAP4K3	mitogen-activated protein kinase kinase kinase kinase 3	0.831	1.621	Up
6546	SLC8A1	solute carrier family 8 member A1	2.812	2.543	Up
27436	EML4	EMAP like 4	0.745	2.844	Up
1.08E+08	LOC107985873		0.761	1.979	Up
1.08E+08	LOC107985876	uncharacterized LOC107985876	2.374	1.613	Up
678	ZFP36L2	ZFP36 ring finger protein like 2	1.843	8.646	Up
1.03E+08	LOC102724965	uncharacterized LOC102724965	1.168	1.504	Up
5581	PRKCE	protein kinase C epsilon	0.663	3.156	Up
90423	ATP6V1E2	ATPase H+ transporting V1 subunit E2	1.074	3.864	Up
129285	PPP1R21	protein phosphatase 1 regulatory subunit 21	0.582	4.337	Up
6711	SPTBN1	spectrin beta, non-erythrocytic 1	0.999	1.606	Up
130162	CLHC1	clathrin heavy chain linker domain containing 1	1.254	2.433	Up

112942	CFAP36	cilia and flagella associated protein 36	0.88	1.752	Up
130872	AHSA2P	activator of HSP90 ATPase homolog 2, pseudogene	0.712	1.355	Up
51057	WDPCP	WD repeat containing planar cell polarity effector	0.617	1.51	Up
23177	CEP68	centrosomal protein 68	1.007	4.286	Up
22848	AAK1	AP2 associated kinase 1	0.814	2.07	Up
64395	GMCL1	germ cell-less 1, spermatogenesis associated	0.729	1.996	Up
51449	PCYOX1	prenylcysteine oxidase 1	0.942	4.912	Up
7039	TGFA	transforming growth factor alpha	1.617	2.531	Up
400961	PAIP2B	poly(A) binding protein interacting protein 2B	1.343	8.997	Up
388963	C2orf81	chromosome 2 open reading frame 81	1.39	3.741	Up
23559	WBP1	WW domain binding protein 1	0.898	2.859	Up
388969	C2orf68	chromosome 2 open reading frame 68	0.634	3.552	Up
55818	KDM3A	lysine demethylase 3A	0.888	2.431	Up
7844	RNF103	ring finger protein 103	0.593	2.109	Up
5342	PLGLB2	plasminogen like B2	0.788	1.62	Up
1.02E+08	EIF2AK3-DT	EIF2AK3 divergent transcript	1.032	1.706	Up
7549	ZNF2	zinc finger protein 2	0.831	4.219	Up
55683	KANSL3	KAT8 regulatory NSL complex subunit 3	0.515	2.078	Up
1.01E+08	CNNM3-DT	CNNM3 divergent transcript	2.178	2.718	Up
26505	CNNM3	cyclin and CBS domain divalent metal cation transport mediator 3	1.048	5.57	Up
54910	SEMA4C	semaphorin 4C	1.286	3.447	Up
3631	INPP4A	inositol polyphosphate-4-phosphatase type I A	0.857	3.696	Up
11320	MGAT4A	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A	1.13	9.086	Up
1.02E+08	LINC02611	long intergenic non-protein coding RNA 2611	2.037	5.042	Up
80705	TSGA10	testis specific 10	1.134	3.961	Up
150590	C2orf15	chromosome 2 open reading frame 15	1.834	8.308	Up
51601	LIPT1	lipoyltransferase 1	0.651	1.727	Up
3899	AFF3	ALF transcription elongation factor 3	2.164	11.195	Up
284996	RNF149	ring finger protein 149	0.579	2.887	Up
130827	TMEM182	transmembrane protein 182	0.879	1.492	Up
8440	NCK2	NCK adaptor protein 2	0.61	2.887	Up
80146	UXS1	UDP-glucuronate decarboxylase 1	0.703	2.648	Up
3987	LIMS1	LIM zinc finger domain containing 1	0.478	1.926	Up
10913	EDAR	ectodysplasin A receptor	2.532	9.28	Up
1E+08	SH3RF3-AS1	SH3RF3 antisense RNA 1	3.249	8.618	Up
344558	SH3RF3	SH3 domain containing ring finger 3	3.036	10.833	Up
1E+08	LIMS4	LIM zinc finger domain containing 4	0.501	1.352	Up
84910	TMEM87B	transmembrane protein 87B	0.492	1.493	Up
376940	ZC3H6	zinc finger CCCH-type containing 6	1.604	7.458	Up
140738	TMEM37	transmembrane protein 37	4.853	1.665	Up
1.02E+08	LOC101927764	uncharacterized LOC101927764	1.02	2.171	Up
5775	PTPN4	protein tyrosine phosphatase non-receptor type 4	1.002	4.408	Up
2995	GYPC	glycophorin C (Gerbich blood group)	1.676	8.011	Up
274	BIN1	bridging integrator 1	0.956	4.393	Up
55679	LIMS2	LIM zinc finger domain containing 2	1.427	2.456	Up

84317	CCDC115	coiled-coil domain containing 115	0.469	2.947	Up
26469	PTPN18	protein tyrosine phosphatase non-receptor type 18	0.384	1.957	Up
653784	MZT2A	mitotic spindle organizing protein 2A	0.584	1.934	Up
905	CCNT2	cyclin T2	0.525	2.142	Up
1.12E+08	LOC112268426		0.729	1.509	Up
7852	CXCR4	C-X-C motif chemokine receptor 4	0.724	1.68	Up
55843	ARHGAP15	Rho GTPase activating protein 15	0.818	2.125	Up
92	ACVR2A	activin A receptor type 2A	0.987	1.674	Up
55777	MBD5	methyl-CpG binding domain protein 5	0.608	2.171	Up
26122	EPC2	enhancer of polycomb homolog 2	0.593	3.459	Up
375287	RBM43	RNA binding motif protein 43	1.871	3.254	Up
9874	TLK1	tousled like kinase 1	0.782	2.531	Up
79901	CYBRD1	cytochrome b reductase 1	1.253	1.911	Up
3655	ITGA6	integrin subunit alpha 6	2.588	24.247	Up
1.02E+08	ITGA6-AS1	ITGA6 antisense RNA 1	1.113	1.566	Up
5163	PDK1	pyruvate dehydrogenase kinase 1	1.106	7.167	Up
6744	ITPRID2	ITPR interacting domain containing 2	0.644	2.285	Up
142679	DUSP19	dual specificity phosphatase 19	1.604	3.807	Up
10203	CALCRL	calcitonin receptor like receptor	1.8	1.781	Up
30061	SLC40A1	solute carrier family 40 member 1	1.259	1.443	Up
150709	ANKAR	ankyrin and armadillo repeat containing	0.907	2.457	Up
64172	OSGEPL1	O-sialoglycoprotein endopeptidase like 1	0.743	1.684	Up
1E+08	NEMP2	nuclear envelope integral membrane protein 2	0.532	1.565	Up
1.02E+08	ANKRD44-AS1	ANKRD44 antisense RNA 1	1.338	2.027	Up
5334	PLCL1	phospholipase C like 1 (inactive)	0.799	6.083	Up
130535	KCTD18	potassium channel tetramerization domain containing 18	0.383	1.528	Up
1195	CLK1	CDC like kinase 1	0.998	3.002	Up
843	CASP10	caspase 10	0.416	2.039	Up
841	CASP8	caspase 8	0.83	2.736	Up
659	BMPR2	bone morphogenetic protein receptor type 2	0.838	2.444	Up
150864	FAM117B	family with sequence similarity 117 member B	1.206	5.759	Up
79800	CARF	calcium responsive transcription factor	1.378	4.833	Up
57683	ZDBF2	zinc finger DBF-type containing 2	0.641	4.416	Up
8745	ADAM23	ADAM metallopeptidase domain 23	2.325	6.715	Up
8609	KLF7	KLF transcription factor 7	0.782	2.306	Up
200576	PIKFYVE	phosphoinositide kinase, FYVE-type zinc finger containing	0.519	1.406	Up
92691	TMEM169	transmembrane protein 169	1.207	1.779	Up
64114	TMBIM1	transmembrane BAX inhibitor motif containing 1	0.531	1.659	Up
6556	SLC11A1	solute carrier family 11 member 1	2.133	2.431	Up
1593	CYP27A1	cytochrome P450 family 27 subfamily A member 1	4.069	4.862	Up
79137	RETREG2	reticulophagy regulator family member 2	0.701	5.153	Up
55139	ANKZF1	ankyrin repeat and zinc finger peptidyl tRNA hydrolase 1	0.601	3.911	Up
3300	DNAJB2	DnaJ heat shock protein family (Hsp40) member B2	0.576	2.382	Up
2043	EPHA4	EPH receptor A4	2.622	12.273	Up
3667	IRS1	insulin receptor substrate 1	2.167	1.481	Up

55022	PID1	phosphotyrosine interaction domain containing 1	4.915	2.716	Up
3635	INPP5D	inositol polyphosphate-5-phosphatase D	1.171	4.936	Up
55054	ATG16L1	autophagy related 16 like 1	0.396	1.641	Up
23677	SH3BP4	SH3 domain binding protein 4	1.261	1.373	Up
57007	ACKR3	atypical chemokine receptor 3	1.787	5.362	Up
9759	HDAC4	histone deacetylase 4	1.037	2.995	Up
1.02E+08	HDAC4-AS1	HDAC4 antisense RNA 1	2.237	1.608	Up
51281	ANKMY1	ankyrin repeat and MYND domain containing 1	0.957	1.955	Up
285193	DUSP28	dual specificity phosphatase 28	0.513	1.452	Up
57140	RNPEPL1	arginyl aminopeptidase like 1	0.747	6.781	Up
25992	SNED1	sushi, nidogen and EGF like domains 1	1.737	7.987	Up
1.08E+08	LOC107985787	uncharacterized LOC107985787	3.249	1.569	Up
130916	MTERF4	mitochondrial transcription termination factor 4	0.889	6.103	Up
23178	PASK	PAS domain containing serine/threonine kinase	1.096	10.34	Up
728294	D2HGDH	D-2-hydroxyglutarate dehydrogenase	1.057	1.804	Up
51185	CRBN	cereblon	0.699	2.216	Up
9901	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	0.957	3.048	Up
84818	IL17RC	interleukin 17 receptor C	1.007	1.488	Up
78987	CRELD1	cysteine rich with EGF like domains 1	0.724	3.451	Up
152302	CIDECP1	CIDEC pseudogene 1	0.707	2.371	Up
619563	SNORA7A	small nucleolar RNA, H/ACA box 7A	1	1.926	Up
9922	IQSEC1	IQ motif and Sec7 domain ArfGEF 1	1.025	3.251	Up
7476	WNT7A	Wnt family member 7A	3.078	10.553	Up
7508	XPC	XPC complex subunit, DNA damage recognition and repair factor	0.681	5.11	Up
64145	RBSN	rabenosyn, RAB effector	0.89	3.791	Up
23473	CAPN7	calpain 7	0.525	2.494	Up
686	BTD	biotinidase	0.76	2.942	Up
92106	OXNAD1	oxidoreductase NAD binding domain containing 1	0.645	2.647	Up
23228	PLCL2	phospholipase C like 2	0.916	8.995	Up
1.02E+08	SATB1-AS1	SATB1 antisense RNA 1	0.879	3.725	Up
9975	NR1D2	nuclear receptor subfamily 1 group D member 2	0.914	4.792	Up
9497	SLC4A7	solute carrier family 4 member 7	0.699	2.455	Up
152098	ZCWPW2	zinc finger CW-type and PWWP domain containing 2	0.793	1.892	Up
7048	TGFBR2	transforming growth factor beta receptor 2	1.451	3.658	Up
23171	GPD1L	glycerol-3-phosphate dehydrogenase 1 like	0.711	2.319	Up
152189	CMTM8	CKLF like MARVEL transmembrane domain containing 8	1.711	1.919	Up
112616	CMTM7	CKLF like MARVEL transmembrane domain containing 7	1.195	8.499	Up
10491	CRTAP	cartilage associated protein	1.223	6.635	Up
9881	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1	1.129	4.298	Up
50853	VILL	villin like	0.698	1.658	Up
5333	PLCD1	phospholipase C delta 1	1.7	13.305	Up
93	ACVR2B	activin A receptor type 2B	0.957	1.59	Up
199223	TTC21A	tetratricopeptide repeat domain 21A	1.871	2.236	Up
54977	SLC25A38	solute carrier family 25 member 38	0.395	1.611	Up

285266	ENTPD3-AS1	ENTPD3 antisense RNA 1	1.436	2.574	Up
7433	VIPR1	vasoactive intestinal peptide receptor 1	2.843	16.791	Up
1.01E+08	VIPR1-AS1	VIPR1 antisense RNA 1	2.63	3.364	Up
1.01E+08	SNRK-AS1	SNRK antisense RNA 1	0.488	1.324	Up
285343	TCAIM	T cell activation inhibitor, mitochondrial	0.521	2.017	Up
353274	ZNF445	zinc finger protein 445	0.794	2.745	Up
1.1E+08	ZNF660-ZNF197	ZNF660-ZNF197 readthrough	0.657	1.874	Up
10168	ZNF197	zinc finger protein 197	0.652	1.842	Up
693149	MIR564	microRNA 564	1.844	2.292	Up
131616	TMEM42	transmembrane protein 42	1.144	3.568	Up
10803	CCR9	C-C motif chemokine receptor 9	1.917	2.805	Up
1230	CCR1	C-C motif chemokine receptor 1	1.187	1.51	Up
1.03E+08	CCR5AS	CCR5 antisense RNA	1.945	1.531	Up
79442	LRRC2	leucine rich repeat containing 2	2.085	2.946	Up
259173	ALS2CL	ALS2 C-terminal like	1.585	3.245	Up
259236	TMIE	transmembrane inner ear	0.918	1.394	Up
51246	SHISA5	shisa family member 5	1.194	7.889	Up
51517	NCKIPSD	NCK interacting protein with SH3 domain	0.479	2.928	Up
1.01E+08	PRKAR2A-AS1	PRKAR2A antisense RNA 1	1.032	1.372	Up
10869	USP19	ubiquitin specific peptidase 19	0.546	1.524	Up
22973	LAMB2P1	laminin subunit beta 2 pseudogene 1	2.02	2.833	Up
10181	RBM5	RNA binding motif protein 5	0.482	1.666	Up
9254	CACNA2D2	calcium voltage-gated channel auxiliary subunit alpha2delta 2	1.019	3.48	Up
51368	TEX264	testis expressed 264, ER-phagy receptor	0.544	1.524	Up
84836	ABHD14B	abhydrolase domain containing 14B	1.103	3.846	Up
25864	ABHD14A	abhydrolase domain containing 14A	0.721	1.861	Up
1849	DUSP7	dual specificity phosphatase 7	1.147	9.043	Up
51533	PHF7	PHD finger protein 7	1.252	4.407	Up
7134	TNNC1	troponin C1, slow skeletal and cardiac type	2.679	1.905	Up
23166	STAB1	stabilin 1	2.619	13.16	Up
51460	SFMBT1	Scm like with four mbt domains 1	1.214	4.993	Up
285331	CCDC66	coiled-coil domain containing 66	0.899	2.321	Up
50650	ARHGEF3	Rho guanine nucleotide exchange factor 3	1.284	9.083	Up
201627	DENND6A	DENN domain containing 6A	1.077	6.743	Up
2317	FLNB	filamin B	0.862	1.673	Up
2272	FHIT	fragile histidine triad diadenosine triphosphatase	1.593	3.485	Up
6314	ATXN7	ataxin 7	0.787	3.24	Up
407738	TAFA1	TAFA chemokine like family member 1	5.011	4.162	Up
7110	TMF1	TATA element modulatory factor 1	0.603	1.393	Up
4286	MITF	melanocyte inducing transcription factor	2.372	3.07	Up
27086	FOXP1	forkhead box P1	0.397	1.624	Up
1.08E+08	LOC107986097		2.885	2.569	Up
200895	DHFR2	dihydrofolate reductase 2	0.441	1.32	Up
10402	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	1.706	1.896	Up

57337	SENP7	SUMO specific peptidase 7	0.942	12.291	Up
868	CBLB	Cbl proto-oncogene B	0.918	3.128	Up
54847	SIDT1	SID1 transmembrane family member 1	0.842	7.634	Up
26137	ZBTB20	zinc finger and BTB domain containing 20	1.33	4.118	Up
79663	HSPBAP1	HSPB1 associated protein 1	0.582	1.834	Up
84925	SLC49A4	solute carrier family 49 member 4	0.866	2.161	Up
1E+08	LINC02035	long intergenic non-protein coding RNA 2035	1.541	4.742	Up
8997	KALRN	kalirin RhoGEF kinase	1.386	2.182	Up
3693	ITGB5	integrin subunit beta 5	2.771	6.11	Up
7707	ZNF148	zinc finger protein 148	0.33	1.336	Up
28999	KLF15	KLF transcription factor 15	2.171	1.444	Up
80325	ABTB1	ankyrin repeat and BTB domain containing 1	1.495	22.435	Up
8971	H1-10	H1.10 linker histone	0.684	1.782	Up
132241	RPL32P3	ribosomal protein L32 pseudogene 3	1.018	1.62	Up
55764	IFT122	intraflagellar transport 122	0.699	2.879	Up
23129	PLXND1	plexin D1	2.03	6.443	Up
28990	ASTE1	asteroid homolog 1	0.736	3.872	Up
79858	NEK11	NIMA related kinase 11	1.05	1.887	Up
131870	NUDT16	nudix hydrolase 16	0.618	1.663	Up
23317	DNAJC13	DnaJ heat shock protein family (Hsp40) member C13	0.515	1.467	Up
6259	RYK	receptor like tyrosine kinase	0.326	1.385	Up
80254	CEP63	centrosomal protein 63	0.552	2.505	Up
5523	PPP2R3A	protein phosphatase 2 regulatory subunit B"alpha	0.628	1.407	Up
347736	NME9	NME/NM23 family member 9	0.693	1.522	Up
22808	MRAS	muscle RAS oncogene homolog	1.919	2.782	Up
55186	SLC25A36	solute carrier family 25 member 36	0.399	2.04	Up
92370	PXYLP1	2-phosphoxylose phosphatase 1	0.657	1.977	Up
7029	TFDP2	transcription factor Dp-2	1.142	2.895	Up
285195	SLC9A9	solute carrier family 9 member A9	1.641	10.904	Up
205428	DIPK2A	divergent protein kinase domain 2A	0.718	2.175	Up
1359	CPA3	carboxypeptidase A3	1.6	1.78	Up
6596	HLTF	helicase like transcription factor	0.568	1.418	Up
84343	HPS3	HPS3 biogenesis of lysosomal organelles complex 2 subunit 1	0.774	2.635	Up
1356	CP	ceruloplasmin	1.175	3.376	Up
1.02E+08	ERICH6-AS1	ERICH6 antisense RNA 1	1.266	1.676	Up
401093	MBNL1-AS1	MBNL1 antisense RNA 1	0.493	2.113	Up
5912	RAP2B	RAP2B, member of RAS oncogene family	0.773	4.704	Up
1E+08	TRIM59-IFT80	TRIM59-IFT80 protein	0.404	1.308	Up
57560	IFT80	intraflagellar transport 80	0.685	2.366	Up
80012	PHC3	polyhomeotic homolog 3	0.633	1.886	Up
23043	TNIK	TRAF2 and NCK interacting kinase	0.928	2.88	Up
1.03E+08	LOC102724479	uncharacterized LOC102724479	1.436	1.63	Up
23200	ATP11B	ATPase phospholipid transporting 11B (putative)	0.491	2.067	Up
56922	MCCC1	methylcrotonyl-CoA carboxylase subunit 1	0.762	4.354	Up
1.08E+08	LOC107986162	uncharacterized LOC107986162	1.37	3.097	Up
54800	KLHL24	kelch like family member 24	1.227	7.692	Up

10057	ABCC5	ATP binding cassette subfamily C member 5	0.784	2.102	Up
2049	EPHB3	EPH receptor B3	2.282	1.394	Up
23355	VPS8	VPS8 subunit of CORVET complex	0.787	5.688	Up
285386	TPRG1	tumor protein p63 regulated 1	1.289	1.797	Up
84239	ATP13A4	ATPase 13A4	1.612	1.536	Up
2814	GP5	glycoprotein V platelet	3.062	14.063	Up
23527	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	0.541	2.163	Up
152217	NCBP2AS2	NCBP2 antisense 2 (head to head)	0.476	2.565	Up
89782	LMLN	leishmanolysin like peptidase	0.756	1.486	Up
170960	ZNF721	zinc finger protein 721	0.453	2.207	Up
84286	TMEM175	transmembrane protein 175	0.692	2.912	Up
1E+08	LOC100130872	uncharacterized LOC100130872	1.484	2.682	Up
92070	CTBP1-DT	CTBP1 divergent transcript	0.543	1.745	Up
152877	FAM53A	family with sequence similarity 53 member A	1.445	2.628	Up
10460	TACC3	transforming acidic coiled-coil containing protein 3	0.675	2.824	Up
1.12E+08	LOC112268460	uncharacterized LOC112268460	0.718	3.037	Up
10608	MXD4	MAX dimerization protein 4	1.196	9.865	Up
1.01E+08	MIR4800	microRNA 4800	1.491	1.899	Up
166793	ZBTB49	zinc finger and BTB domain containing 49	0.739	3.101	Up
54360	CYTL1	cytokine like 1	3.967	2.297	Up
93622	LOC93622	Morf4 family associated protein 1 like 1	1.099	5.425	Up
339988	LINC02481	long intergenic non-protein coding RNA 2481	2.179	3.544	Up
114932	MRFAP1L1	Morf4 family associated protein 1 like 1	0.533	1.678	Up
57533	TBC1D14	TBC1 domain family member 14	0.359	1.447	Up
1E+08	LOC100129931	uncharacterized LOC100129931	0.38	1.574	Up
257236	CCDC96	coiled-coil domain containing 96	0.986	1.439	Up
93624	TADA2B	transcriptional adaptor 2B	0.394	1.871	Up
84448	ABLIM2	actin binding LIM protein family member 2	1.717	6.542	Up
54436	SH3TC1	SH3 domain and tetratricopeptide repeats 1	0.756	2.185	Up
132864	CPEB2	cytoplasmic polyadenylation element binding protein 2	0.847	2.172	Up
285550	FAM200B	family with sequence similarity 200 member B	0.949	3.228	Up
254251	LCORL	ligand dependent nuclear receptor corepressor like	0.684	2.307	Up
768211	RELL1	RELT like 1	0.661	2.053	Up
1.06E+08	LINC01259	long intergenic non-protein coding RNA 1259	3.53	1.724	Up
1.03E+08	LOC102723415	replaced by ID 79667	3.941	2.522	Up
79667	KLF3-AS1	KLF3 antisense RNA 1	1.868	6.985	Up
51274	KLF3	KLF transcription factor 3	1.451	9.811	Up
57728	WDR19	WD repeat domain 19	0.819	2.033	Up
1.01E+08	UGDH-AS1	UGDH antisense RNA 1	1.367	1.318	Up
201895	SMIM14	small integral membrane protein 14	1.887	11.262	Up
10396	ATP8A1	ATPase phospholipid transporting 8A1	1.359	5.21	Up
152518	NFXL1	nuclear transcription factor, X-box binding like 1	0.685	3.193	Up
7294	TXK	TXK tyrosine kinase	0.934	3.807	Up

326340	ZAR1	zygote arrest 1	0.533	2.056	Up
26511	CHIC2	cysteine rich hydrophobic domain 2	0.637	1.591	Up
3815	KIT	KIT proto-oncogene, receptor tyrosine kinase	1.135	1.347	Up
55763	EXOC1	exocyst complex component 1	0.502	2.946	Up
5978	REST	RE1 silencing transcription factor	0.438	2.054	Up
1060	CENPC	centromere protein C	0.571	1.55	Up
550112	UBA6-DT	UBA6 divergent transcript	0.751	2.751	Up
27284	SULT1B1	sulfotransferase family 1B member 1	3.692	14.333	Up
166824	RASSF6	Ras association domain family member 6	3.481	2.655	Up
27163	NAAA	N-acylethanolamine acid amidase	0.93	3.761	Up
950	SCARB2	scavenger receptor class B member 2	0.915	6.006	Up
1.08E+08	LOC107986290		2.312	2.18	Up
10983	CCNI	cyclin I	0.758	2.509	Up
901	CCNG2	cyclin G2	0.578	1.487	Up
246175	CNOT6L	CCR4-NOT transcription complex subunit 6 like	1.465	11.264	Up
55589	BMP2K	BMP2 inducible kinase	0.618	1.655	Up
5593	PRKG2	protein kinase cGMP-dependent 2	2.738	6.121	Up
1.05E+08	LOC105377308	uncharacterized LOC105377308	1.857	1.837	Up
51316	PLAC8	placenta associated 8	1.066	3.728	Up
113510	HELQ	helicase, POLQ like	0.477	1.775	Up
84142	ABRAXAS1	abraxas 1, BRCA1 A complex subunit	0.717	2.039	Up
84803	GPAT3	glycerol-3-phosphate acyltransferase 3	0.825	1.699	Up
23001	WDFY3	WD repeat and FYVE domain containing 3	2.319	2.325	Up
4299	AFF1	ALF transcription elongation factor 1	0.462	1.34	Up
51170	HSD17B11	hydroxysteroid 17-beta dehydrogenase 11	1.588	3.249	Up
8916	HERC3	HECT and RLD domain containing E3 ubiquitin protein ligase 3	0.474	2.237	Up
5530	PPP3CA	protein phosphatase 3 catalytic subunit alpha	0.918	4.933	Up
90024	FLJ20021	uncharacterized LOC90024	1.842	3.816	Up
4126	MANBA	mannosidase beta	1.326	15.022	Up
113612	CYP2U1	cytochrome P450 family 2 subfamily U member 1	0.881	1.869	Up
51176	LEF1	lymphoid enhancer binding factor 1	1.232	3.709	Up
641518	LEF1-AS1	LEF1 antisense RNA 1	1.291	3.222	Up
55013	MCUB	mitochondrial calcium uniporter dominant negative subunit beta	1.148	3.903	Up
7222	TRPC3	transient receptor potential cation channel subfamily C member 3	3.822	3.546	Up
84162	BLTP1	bridge-like lipid transfer protein family member 1	1.181	1.867	Up
166379	BBS12	Bardet-Biedl syndrome 12	0.682	1.651	Up
79960	JADE1	jade family PHD finger 1	0.891	4.111	Up
1998	ELF2	E74 like ETS transcription factor 2	0.879	4.664	Up
83452	RAB33B	RAB33B, member RAS oncogene family	0.383	1.695	Up
57484	RNF150	ring finger protein 150	5.343	2.325	Up
1.05E+08	LOC105377623	uncharacterized LOC105377623	1.095	1.335	Up
4306	NR3C2	nuclear receptor subfamily 3 group C member 2	1.433	13.406	Up
152503	SH3D19	SH3 domain containing 19	1.544	1.361	Up
1.08E+08	LOC107986196	uncharacterized LOC107986196	1.364	2.311	Up
201799	TMEM154	transmembrane protein 154	1.371	5.925	Up

285533	RNF175	ring finger protein 175	2.731	4.548	Up
56034	PDGFC	platelet derived growth factor C	2.548	2.012	Up
51313	GASK1B	golgi associated kinase 1B	5.384	4.701	Up
3148	HMGB2	high mobility group box 2	0.925	9.486	Up
1.05E+08	SAP30-DT	SAP30 divergent transcript	1.433	1.961	Up
55602	CDKN2AIP	CDKN2A interacting protein	0.941	4.942	Up
83891	SNX25	sorting nexin 25	0.666	1.413	Up
55325	UFSP2	UFM1 specific peptidase 2	0.451	2.096	Up
285440	CYP4V2	cytochrome P450 family 4 subfamily V member 2	0.769	2.471	Up
133957	CCDC127	coiled-coil domain containing 127	0.363	1.631	Up
11076	TPPP	tubulin polymerization promoting protein	1.431	1.91	Up
653082	ZDHHC11B	zinc finger DHHC-type containing 11B	1.68	1.529	Up
1.02E+08	LOC101929200	uncharacterized LOC101929200	1.386	3.651	Up
11044	TENT4A	terminal nucleotidyltransferase 4A	0.564	2.561	Up
1.01E+08	SNHG18	small nucleolar RNA host gene 18	2.224	2.072	Up
54491	OTULINL	OTU deubiquitinase with linear linkage specificity like	0.979	6.112	Up
56172	ANKH	ANKH inorganic pyrophosphate transport regulator	0.786	3.917	Up
1E+08	LOC100130744	uncharacterized LOC100130744	0.552	2.513	Up
54463	RETREG1	reticulophagy regulator 1	1.281	10.06	Up
1.02E+08	RETREG1-AS1	RETREG1 antisense RNA 1	1.297	2.626	Up
1.02E+08	TTC23L-AS1	TTC23L antisense RNA 1	1.254	1.329	Up
3575	IL7R	interleukin 7 receptor	1.919	7.78	Up
253260	RICTOR	RPTOR independent companion of MTOR complex 2	0.601	1.749	Up
2533	FYB1	FYN binding protein 1	1.367	7.479	Up
1601	DAB2	DAB adaptor protein 2	1.644	2.194	Up
1.05E+08	LOC105374746	uncharacterized LOC105374746	1.384	3.132	Up
1.05E+08	LOC105374748	uncharacterized LOC105374748	1.069	1.928	Up
389289	ANXA2R	annexin A2 receptor	1.305	6.108	Up
1.01E+08	NNT-AS1	NNT antisense RNA 1	0.713	2.304	Up
23530	NNT	nicotinamide nucleotide transhydrogenase	0.565	1.737	Up
133418	EMB	embigin	0.844	3.155	Up
79668	PARP8	poly(ADP-ribose) polymerase family member 8	0.723	2.287	Up
10468	FST	follistatin	2.951	1.323	Up
112574	SNX18	sorting nexin 18	0.536	2.571	Up
3572	IL6ST	interleukin 6 cytokine family signal transducer	0.725	2.13	Up
79722	ANKRD55	ankyrin repeat domain 55	1.882	3.815	Up
1.02E+08	LOC101928419	uncharacterized LOC101928419	2.149	1.53	Up
4214	MAP3K1	mitogen-activated protein kinase kinase kinase 1	0.936	12.172	Up
1.05E+08	LOC105378980	uncharacterized LOC105378980	0.985	5.973	Up

202309	GAPT	GRB2 binding adaptor protein, transmembrane	2.163	2.579	Up
5144	PDE4D	phosphodiesterase 4D	0.555	1.326	Up
11174	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif 6	1.802	2.057	Up
64105	CENPK	centromere protein K	1.332	5.336	Up
373	TRIM23	tripartite motif containing 23	0.562	1.975	Up
54557	SGTB	small glutamine rich tetratricopeptide repeat co-chaperone beta	0.899	2.405	Up
55914	ERBIN	erbb2 interacting protein	0.603	3.535	Up
5295	PIK3R1	phosphoinositide-3-kinase regulatory subunit 1	0.655	5.074	Up
115548	FCHO2	FCH and mu domain containing endocytic adaptor 2	1.115	2.277	Up
57763	ANKRA2	ankyrin repeat family A member 2	0.559	2.234	Up
51301	GCNT4	glucosaminyl (N-acetyl) transferase 4	0.721	1.914	Up
10788	IQGAP2	IQ motif containing GTPase activating protein 2	0.981	2.064	Up
2150	F2RL1	F2R like trypsin receptor 1	1.336	9.182	Up
728769	SCAMP1-AS1	SCAMP1 antisense RNA 1	1.033	2.501	Up
9522	SCAMP1	secretory carrier membrane protein 1	0.605	2.443	Up
10184	LHFPL2	LHFPL tetraspan subfamily member 2	1.937	3.419	Up
133746	JMY	junction mediating and regulatory protein, p53 cofactor	0.626	1.324	Up
1.02E+08	THBS4-AS1	THBS4 antisense RNA 1	1.902	2.039	Up
256987	SERINC5	serine incorporator 5	1.22	10.849	Up
1.03E+08	RASGRF2-AS1	RASGRF2 antisense RNA 1	1.393	1.68	Up
5924	RASGRF2	Ras protein specific guanine nucleotide releasing factor 2	1.339	6.054	Up
1160	CKMT2	creatine kinase, mitochondrial 2	1.309	6.075	Up
1E+08	CKMT2-AS1	CKMT2 antisense RNA 1	0.927	2.952	Up
153364	MBLAC2	metallo-beta-lactamase domain containing 2	0.899	2.788	Up
57561	ARRDC3	arrestin domain containing 3	0.98	1.88	Up
83989	FAM172A	family with sequence similarity 172 member A	0.55	2.48	Up
285600	KIAA0825	KIAA0825	0.909	1.599	Up
153642	ARSK	arylsulfatase family member K	0.836	1.756	Up
285601	GPR150	G protein-coupled receptor 150	1.909	3.27	Up
2745	GLRX	glutaredoxin	0.815	2.964	Up
285704	RGMB	repulsive guidance molecule BMP co-receptor b	1.839	18.29	Up
5066	PAM	peptidylglycine alpha-amidating monooxygenase	0.634	1.999	Up
64839	FBXL17	F-box and leucine rich repeat protein 17	0.547	1.636	Up
2241	FER	FER tyrosine kinase	0.613	1.739	Up
4124	MAN2A1	mannosidase alpha class 2A member 1	0.744	3.789	Up
814	CAMK4	calcium/calmodulin dependent protein kinase IV	0.85	1.825	Up
114915	EPB41L4A-AS1	EPB41L4A antisense RNA 1	1.335	2.657	Up
153733	CCDC112	coiled-coil domain containing 112	0.797	1.498	Up
153241	CEP120	centrosomal protein 120	0.755	2.468	Up
501	ALDH7A1	aldehyde dehydrogenase 7 family member A1	1.977	1.474	Up
51735	RAPGEF6	Rap guanine nucleotide exchange factor 6	1.003	4.134	Up
23305	ACSL6	acyl-CoA synthetase long chain family member 6	2.653	11.378	Up

1.05E+08	LOC105379185	replaced by ID 7416	2.498	2.964	Up
6932	TCF7	transcription factor 7	1.479	13.346	Up
23338	JADE2	jade family PHD finger 2	0.624	1.814	Up
819	CAMLG	calcium modulating ligand	0.672	1.819	Up
140947	DCANP1	dendritic cell associated nuclear protein 1	2.136	1.595	Up
497189	TIFAB	TIFA inhibitor	2.062	2.248	Up
7045	TGFBI	transforming growth factor beta induced	3.955	9.434	Up
26249	KLHL3	kelch like family member 3	2.37	11.982	Up
51523	CXXC5	CXXC finger protein 5	0.994	2.219	Up
1.01E+08	MALINC1	mitosis associated long intergenic non-coding RNA 1	1.544	8.341	Up
929	CD14	CD14 molecule	3.28	9.259	Up
373863	DND1	DND microRNA-mediated repression inhibitor 1	0.833	2.364	Up
23438	HARS2	histidyl-tRNA synthetase 2, mitochondrial	0.487	3.096	Up
2908	NR3C1	nuclear receptor subfamily 3 group C member 1	0.619	1.461	Up
9832	JAKMIP2	janus kinase and microtubule interacting protein 2	1.503	1.756	Up
78991	PCYOX1L	prenylcysteine oxidase 1 like	0.954	4.663	Up
1436	CSF1R	colony stimulating factor 1 receptor	3.277	2.48	Up
2760	GM2A	ganglioside GM2 activator	1.109	2.707	Up
79685	SAP30L	SAP30 like	0.811	2.735	Up
9337	CNOT8	CCR4-NOT transcription complex subunit 8	0.533	1.476	Up
26762	HAVCR1	hepatitis A virus cellular receptor 1	2.956	4.25	Up
3702	ITK	IL2 inducible T cell kinase	0.44	1.6	Up
26999	CYFIP2	cytoplasmic FMR1 interacting protein 2	0.39	1.721	Up
114825	PWWP2A	PWWP domain containing 2A	0.441	2.578	Up
1.05E+08	LOC105377700	uncharacterized LOC105377700	0.527	1.435	Up
6793	STK10	serine/threonine kinase 10	0.545	1.413	Up
285590	SH3PXD2B	SH3 and PX domains 2B	1.203	1.659	Up
1843	DUSP1	dual specificity phosphatase 1	0.707	1.54	Up
57222	ERGIC1	endoplasmic reticulum-golgi intermediate compartment 1	0.476	2.187	Up
153222	CREBRF	CREB3 regulatory factor	0.681	3.572	Up
91272	BOD1	biorientation of chromosomes in cell division 1	0.457	1.488	Up
1.08E+08	LOC107986483		2.471	1.462	Up
1.05E+08	LOC105377746		2.237	2.003	Up
22838	RNF44	ring finger protein 44	0.983	4.218	Up
53917	RAB24	RAB24, member RAS oncogene family	0.533	2.555	Up
10636	RGS14	regulator of G protein signaling 14	0.653	2.57	Up
340037	PRR7-AS1	PRR7 antisense RNA 1	1.828	1.43	Up
79930	DOK3	docking protein 3	1.887	2.557	Up
285596	FAM153A	family with sequence similarity 153 member A	1.514	1.48	Up
57396	CLK4	CDC like kinase 4	1.081	3.138	Up
6940	ZNF354A	zinc finger protein 354A	0.523	2.104	Up
30832	ZNF354C	zinc finger protein 354C	0.353	1.583	Up
51149	MRNIP	MRN complex interacting protein	0.466	1.422	Up
1.01E+08	MRNIP-DT	MRNIP divergent transcript	1.531	1.679	Up
55819	RNF130	ring finger protein 130	1.544	10.75	Up

4245	MGAT1	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	0.437	3.185	Up
1.01E+08	HEIH	hepatocellular carcinoma up-regulated EZH2-associated long non-coding RNA	0.984	6.248	Up
729678	LINC00847	long intergenic non-protein coding RNA 847	1.287	11.924	Up
643836	ZFP62	ZFP62 zinc finger protein	0.601	2.669	Up
81786	TRIM7	tripartite motif containing 7	1.798	4.077	Up
1.02E+08	CTC-338M12.4	uncharacterized LOC101928649	0.859	2.023	Up
84851	TRIM52	tripartite motif containing 52	0.777	9.196	Up
1.01E+08	MIR4645	microRNA 4645	3.112	2.059	Up
221756	SERPINB9P1	serpin family B member 9 pseudogene 1	1.174	2.707	Up
401232	LINC01011	long intergenic non-protein coding RNA 1011	2.628	9.074	Up
63027	SLC22A23	solute carrier family 22 member 23	1.238	3.249	Up
643327	LOC643327	uncharacterized LOC643327	1.955	1.571	Up
6239	RREB1	ras responsive element binding protein 1	0.944	1.361	Up
221692	PHACTR1	phosphatase and actin regulator 1	1.861	3.629	Up
23408	SIRT5	sirtuin 5	0.537	2.174	Up
29116	MYLIP	myosin regulatory light chain interacting protein	1.241	6.227	Up
51439	FAM8A1	family with sequence similarity 8 member A1	1.459	10.096	Up
7913	DEK	DEK proto-oncogene	0.667	7.61	Up
9750	RIPOR2	RHO family interacting cell polarization regulator 2	1.391	11.039	Up
1.05E+08	LOC105374981	uncharacterized LOC105374981	2.063	4.319	Up
3006	H1-2	H1.2 linker histone, cluster member	1.223	2.255	Up
8334	H2AC6	H2A clustered histone 6	1.965	3.441	Up
3017	H2BC5	H2B clustered histone 5	2.556	4.122	Up
11118	BTN3A2	butyrophilin subfamily 3 member A2	1.044	10.849	Up
11119	BTN3A1	butyrophilin subfamily 3 member A1	0.831	4.603	Up
10384	BTN3A3	butyrophilin subfamily 3 member A3	0.688	3.317	Up
85236	H2BC12	H2B clustered histone 12	0.937	2.586	Up
7754	ZNF204P	zinc finger protein 204, pseudogene	1.526	4.59	Up
7745	ZKSCAN8	zinc finger with KRAB and SCAN domains 8	0.541	2.32	Up
387032	ZKSCAN4	zinc finger with KRAB and SCAN domains 4	0.807	3.753	Up
7741	ZSCAN26	zinc finger and SCAN domain containing 26	0.636	3.171	Up
80317	ZKSCAN3	zinc finger with KRAB and SCAN domains 3	1.203	4.638	Up
80862	POLR1HASP	POLR1H antisense, pseudogene	1.16	2.293	Up
414777	HCG18	HLA complex group 18	0.324	1.675	Up
56658	TRIM39	tripartite motif containing 39	0.617	4.062	Up
3133	HLA-E	major histocompatibility complex, class I, E	0.814	4.384	Up
401247	LINC00243	long intergenic non-protein coding RNA 243	2.05	4.944	Up
780	DDR1	discoidin domain receptor tyrosine kinase 1	0.918	2.859	Up
4795	NFKBIL1	NFKB inhibitor like 1	0.883	5.623	Up
80741	LY6G5C	lymphocyte antigen 6 family member G5C	0.959	1.97	Up
50854	SNHG32	small nucleolar RNA host gene 32	1.273	3.761	Up
10919	EHMT2	euchromatic histone lysine methyltransferase 2	0.563	2.763	Up
1.08E+08	EHMT2-AS1	EHMT2 and SLC44A4 antisense RNA 1	0.464	1.334	Up
7148	TNXB	tenascin XB	1.684	1.52	Up
63943	FKBPL	FKBP prolyl isomerase like	0.572	1.31	Up

80863	PRRT1	proline rich transmembrane protein 1	1.928	4.525	Up
63940	GPSM3	G protein signaling modulator 3	0.972	6.525	Up
3109	HLA-DMB	major histocompatibility complex, class II, DM beta	1.537	2.553	Up
3115	HLA-DPB1	major histocompatibility complex, class II, DP beta 1	1.213	1.335	Up
8705	B3GALT4	beta-1,3-galactosyltransferase 4	0.944	5.516	Up
5863	RGL2	ral guanine nucleotide dissociation stimulator like 2	0.575	1.34	Up
9278	ZBTB22	zinc finger and BTB domain containing 22	0.548	1.759	Up
5252	PHF1	PHD finger protein 1	0.463	1.925	Up
51596	CUTA	cutA divalent cation tolerance homolog	0.722	1.416	Up
8831	SYNGAP1	synaptic Ras GTPase activating protein 1	0.912	1.692	Up
221491	SMIM29	small integral membrane protein 29	0.68	2.906	Up
50619	DEF6	DEF6 guanine nucleotide exchange factor	0.871	5.074	Up
5467	PPARD	peroxisome proliferator activated receptor delta	1.009	7.932	Up
2289	FKBP5	FKBP prolyl isomerase 5	0.925	9.206	Up
11329	STK38	serine/threonine kinase 38	1.906	15.665	Up
221476	PI16	peptidase inhibitor 16	1.758	1.574	Up
1.01E+08	LINC02520	long intergenic non-protein coding RNA 2520	1.316	1.602	Up
60685	ZFAND3	zinc finger AN1-type containing 3	0.418	1.645	Up
222643	UNC5CL	unc-5 family C-terminal like	1.879	2.067	Up
221443	OARD1	O-acyl-ADP-ribose deacylase 1	0.759	3.806	Up
54209	TREM2	triggering receptor expressed on myeloid cells 2	5.255	4.575	Up
896	CCND3	cyclin D3	0.642	2.119	Up
6903	TBCC	tubulin folding cofactor C	0.453	1.981	Up
23506	BICRAL	BICRA like chromatin remodeling complex associated protein	0.695	3.696	Up
441150	C6orf226	chromosome 6 open reading frame 226	0.821	2.05	Up
10695	CNPY3	canopy FGF signaling regulator 3	0.677	4.458	Up
1.07E+08	CNPY3-GNMT	CNPY3-GNMT readthrough	0.674	4.319	Up
5190	PEX6	peroxisomal biogenesis factor 6	1.062	10.14	Up
89953	KLC4	kinesin light chain 4	1.037	3.602	Up
23113	CUL9	cullin 9	0.555	1.797	Up
24149	ZNF318	zinc finger protein 318	0.764	2.288	Up
221400	TDRD6	tudor domain containing 6	3.299	5.868	Up
7941	PLA2G7	phospholipase A2 group VII	3.329	7.276	Up
85315	PAQR8	progestin and adipoQ receptor family member 8	0.819	1.354	Up
114327	EFHC1	EF-hand domain containing 1	1.125	1.762	Up
9697	TRAM2	translocation associated membrane protein 2	0.945	2.595	Up
22858	CILK1	ciliogenesis associated kinase 1	0.713	2.371	Up
26268	FBXO9	F-box protein 9	0.472	3.31	Up
375513	GUSBP4	GUSB pseudogene 4	1.7	2.076	Up
23469	PHF3	PHD finger protein 3	0.897	1.682	Up
55788	LMBRD1	LMBR1 domain containing 1	0.588	2.061	Up
79627	OGFRL1	opioid growth factor receptor like 1	0.769	2.316	Up
26503	SLC17A5	solute carrier family 17 member 5	0.554	2.27	Up
55603	TENT5A	terminal nucleotidyltransferase 5A	0.716	1.977	Up
23033	DOP1A	DOP1 leucine zipper like protein A	0.817	3.517	Up
5238	PGM3	phosphoglucomutase 3	0.518	2.685	Up

112611	RWDD2A	RWD domain containing 2A	1.396	5.973	Up
167681	PRSS35	serine protease 35	2.267	1.432	Up
10957	PNRC1	proline rich nuclear receptor coactivator 1	0.343	1.599	Up
9994	CASP8AP2	caspase 8 associated protein 2	0.849	2.372	Up
23376	UFL1	UFM1 specific ligase 1	0.498	2.57	Up
114792	KLHL32	kelch like family member 32	1.309	6.136	Up
57531	HACE1	HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1	0.477	1.398	Up
202	CRYBG1	crystallin beta-gamma domain containing 1	0.703	1.984	Up
256380	SCML4	Scm polycomb group protein like 4	1.896	6.634	Up
2309	FOXO3	forkhead box O3	0.714	2.724	Up
27244	SESN1	sestrin 1	1.105	2.56	Up
23097	CDK19	cyclin dependent kinase 19	0.996	7.887	Up
117247	SLC16A10	solute carrier family 16 member 10	1.665	2.596	Up
2534	FYN	FYN proto-oncogene, Src family tyrosine kinase	1.057	8.703	Up
1.05E+08	LOC105377945	uncharacterized LOC105377945	1.048	9.769	Up
1.03E+08	LOC102724646	uncharacterized LOC102724646	1.137	3.505	Up
3841	KPNA5	karyopherin subunit alpha 5	0.623	2.963	Up
254394	MCM9	minichromosome maintenance 9 homologous recombination repair factor	0.507	1.706	Up
221322	TBC1D32	TBC1 domain family member 32	0.656	1.317	Up
57515	SERINC1	serine incorporator 1	0.443	1.548	Up
387357	THEMIS	thymocyte selection associated	0.837	1.922	Up
154075	SAMD3	sterile alpha motif domain containing 3	1.15	1.975	Up
9465	AKAP7	A-kinase anchoring protein 7	1.193	1.818	Up
8875	VNN2	vanin 2	1.683	2.908	Up
116843	SLC18B1	solute carrier family 18 member B1	1.177	4.647	Up
27115	PDE7B	phosphodiesterase 7B	2.47	4.481	Up
3459	IFNGR1	interferon gamma receptor 1	0.374	1.471	Up
1E+08	WAKMAR2	wound and keratinocyte migration associated lncRNA 2	1.877	4.15	Up
1.08E+08	LOC107986649		2.288	11.109	Up
23593	HEBP2	heme binding protein 2	0.569	5.258	Up
25901	CCDC28A	coiled-coil domain containing 28A	0.897	2.158	Up
85021	REPS1	RALBP1 associated Eps domain containing 1	0.444	2.146	Up
51696	HECA	hdc homolog, cell cycle regulator	0.728	3.711	Up
10370	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2	1.322	10.794	Up
7402	UTRN	utrophin	1.405	2.785	Up
57621	ZBTB2	zinc finger and BTB domain containing 2	0.515	2.052	Up
55005	RMND1	required for meiotic nuclear division 1 homolog	0.76	1.458	Up
23345	SYNE1	spectrin repeat containing nuclear envelope protein 1	0.99	7.96	Up
26034	IPCEF1	interaction protein for cytohesin exchange factors 1	0.908	3.845	Up
94120	SYTL3	synaptotagmin like 3	0.723	1.867	Up
56895	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4	0.852	1.506	Up
5071	PRKN	parkin RBR E3 ubiquitin protein ligase	1.388	1.329	Up
8635	RNASET2	ribonuclease T2	1.191	6.191	Up
253769	WDR27	WD repeat domain 27	1.299	1.934	Up

55274	PHF10	PHD finger protein 10	0.49	4.578	Up
1.01E+08	LINC03014	long intergenic non-protein coding RNA 3014	0.832	1.341	Up
56975	FAM20C	FAM20C golgi associated secretory pathway kinase	3.232	4.863	Up
23353	SUN1	Sad1 and UNC84 domain containing 1	0.57	3.537	Up
115330	GPR146	G protein-coupled receptor 146	1.723	10.029	Up
8379	MAD1L1	mitotic arrest deficient 1 like 1	1.362	19.695	Up
645700	ZNF890P	zinc finger protein 890, pseudogene	2.332	4.371	Up
26100	WIPI2	WD repeat domain, phosphoinositide interacting 2	0.678	3.008	Up
401303	ZNF815P	zinc finger protein 815, pseudogene	2.257	13.306	Up
654231	OCM	oncomodulin	2.661	4.598	Up
9265	CYTH3	cytohesin 3	1.223	2.942	Up
221955	DAGLB	diacylglycerol lipase beta	1.078	2.002	Up
7559	ZNF12	zinc finger protein 12	0.426	2.847	Up
729852	UMAD1	UBAP1-MVB12-associated (UMA) domain containing 1	0.714	2.235	Up
113263	GLCCI1	glucocorticoid induced 1	0.406	1.392	Up
85477	SCIN	scinderin	4.921	3.431	Up
54543	TOMM7	translocase of outer mitochondrial membrane 7	0.704	1.355	Up
10457	GPNMB	glycoprotein nmb	4.398	25.16	Up
54504	CPVL	carboxypeptidase vitellogenic like	3.852	4.148	Up
222166	MTURN	maturin, neural progenitor differentiation regulator homolog	0.611	2.658	Up
222161	DKFZP586I1420	uncharacterized protein DKFZp586I1420	0.583	1.962	Up
10392	NOD1	nucleotide binding oligomerization domain containing 1	0.747	2.31	Up
1.05E+08	LOC105375219	uncharacterized LOC105375219	3.248	3.115	Up
25948	KBTBD2	kelch repeat and BTB domain containing 2	0.356	2.07	Up
27241	BBS9	Bardet-Biedl syndrome 9	0.591	1.353	Up
64224	HERPUD2	HERPUD family member 2	0.632	2.601	Up
80820	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1	1.938	5.069	Up
313	AOAH	acyloxyacyl hydrolase	2.658	2.002	Up
445347	TARP	TCR gamma alternate reading frame protein	0.442	1.303	Up
1.01E+08	TRG-AS1	T cell receptor gamma locus antisense RNA 1	1.642	7.039	Up
401331	RASA4CP	RAS p21 protein activator 4C, pseudogene	0.772	3.682	Up
255031	LINC00957	long intergenic non-protein coding RNA 957	1.168	5.777	Up
5224	PGAM2	phosphoglycerate mutase 2	1.391	1.424	Up
27434	POLM	DNA polymerase mu	0.652	1.494	Up
83605	CCM2	CCM2 scaffold protein	0.79	8.028	Up
3486	IGFBP3	insulin like growth factor binding protein 3	1.073	1.699	Up
64759	TNS3	tensin 3	1.349	1.452	Up
7378	UPP1	uridine phosphorylase 1	0.576	1.393	Up
10320	IKZF1	IKAROS family zinc finger 1	0.524	3.208	Up
25870	SUMF2	sulfatase modifying factor 2	0.602	1.875	Up
5260	PHKG1	phosphorylase kinase catalytic subunit gamma 1	0.579	1.31	Up
340252	ZNF680	zinc finger protein 680	0.583	1.32	Up
441242	LINC03006	long intergenic non-protein coding RNA 3006	1.325	2.947	Up

643253	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1	1.123	3.103	Up
1E+08	LINC03011	long intergenic non-protein coding RNA 3011	1.353	1.919	Up
154881	KCTD7	potassium channel tetramerization domain containing 7	1.035	3.662	Up
644794	LINC02604	long intergenic non-protein coding RNA 2604	1.708	1.637	Up
654816	NCF1B	neutrophil cytosolic factor 1B pseudogene	1.143	2.864	Up
653361	NCF1	neutrophil cytosolic factor 1	1.14	1.595	Up
654817	NCF1C	neutrophil cytosolic factor 1C pseudogene	1.265	2.328	Up
155400	NSUN5P1	NSUN5 pseudogene 1	0.703	1.358	Up
57414	RHBDD2	rhomboid domain containing 2	0.889	7.147	Up
1.01E+08	SPDYE18	speedy/RINGO cell cycle regulator family member E18	1.706	1.637	Up
222194	RSBN1L	round spermatid basic protein 1 like	0.609	2.55	Up
948	CD36	CD36 molecule	1.272	1.343	Up
10371	SEMA3A	semaphorin 3A	2.454	1.58	Up
11257	TP53TG1	TP53 target 1	1.296	3.94	Up
54677	CROT	carnitine O-octanoyltransferase	0.633	1.785	Up
5244	ABCB4	ATP binding cassette subfamily B member 4	1.123	2.16	Up
53616	ADAM22	ADAM metallopeptidase domain 22	1.367	1.848	Up
5218	CDK14	cyclin dependent kinase 14	2.037	1.858	Up
8321	FZD1	frizzled class receptor 1	1.318	1.419	Up
5166	PDK4	pyruvate dehydrogenase kinase 4	3.955	5.862	Up
25851	TECPR1	tectonin beta-propeller repeat containing 1	1.434	7.587	Up
25798	BRI3	brain protein I3	0.43	1.416	Up
221786	FAM200A	family with sequence similarity 200 member A	0.515	1.96	Up
221785	ZSCAN25	zinc finger and SCAN domain containing 25	0.368	2.453	Up
89122	TRIM4	tripartite motif containing 4	0.609	3.469	Up
7551	ZNF3	zinc finger protein 3	0.463	1.579	Up
245812	CNPY4	canopy FGF signaling regulator 4	0.737	1.841	Up
79690	GAL3ST4	galactose-3-O-sulfotransferase 4	2.439	4.032	Up
221914	GPC2	glypican 2	2.158	1.95	Up
352954	CASTOR3P	CASTOR family member 3, pseudogene	0.767	3.547	Up
1E+08	SAP25	Sin3A associated protein 25	1.76	2.256	Up
4034	LRCH4	leucine rich repeats and calponin homology domain containing 4	0.803	3.189	Up
1.02E+08	ZASP		0.853	2.347	Up
56996	SLC12A9	solute carrier family 12 member 9	0.503	1.591	Up
54784	ALKBH4	alkB homolog 4, lysine demethylase	0.416	1.433	Up
1E+08	RASA4B	RAS p21 protein activator 4B	1.018	2.388	Up
10156	RASA4	RAS p21 protein activator 4	0.998	2.401	Up
1E+08	RASA4DP	RAS p21 protein activator 4D, pseudogene	1.001	2.701	Up
349152	DPY19L2P2	DPY19L2 pseudogene 2	0.672	1.765	Up
6733	SRPK2	SRSF protein kinase 2	0.367	1.921	Up
222255	ATXN7L1	ataxin 7 like 1	1.764	13.157	Up
222256	CDHR3	cadherin related family member 3	2.203	7.365	Up
5294	PIK3CG	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	0.539	1.711	Up
26959	HBP1	HMG-box transcription factor 1	0.842	3.027	Up
1.02E+08	CBLL1-AS1	CBLL1 antisense RNA 1	1.688	3.76	Up

79872	CBLL1	Cbl proto-oncogene like 1	0.576	1.94	Up
11179	ZNF277	zinc finger protein 277	0.837	1.45	Up
10157	AASS	aminoadipate-semialdehyde synthase	0.912	1.562	Up
8976	WASL	WASP like actin nucleation promoting factor	0.384	1.425	Up
401398	POT1-AS1	POT1 antisense RNA 1	1.412	1.857	Up
23382	AHCYL2	adenosylhomocysteinase like 2	0.493	2.56	Up
7328	UBE2H	ubiquitin conjugating enzyme E2 H	0.38	1.355	Up
29062	WDR91	WD repeat domain 91	0.621	2.043	Up
1E+08	KDM7A-DT	KDM7A divergent transcript	1.122	1.975	Up
285962	WEE2-AS1	WEE2 antisense RNA 1	1.803	1.909	Up
23601	CLEC5A	C-type lectin domain containing 5A	2.814	3.142	Up
1.05E+08	LOC105375539	uncharacterized LOC105375539	2.011	2.293	Up
28602	TRBV6-5	T cell receptor beta variable 6-5	0.784	1.479	Up
1.08E+08	LOC107986855	uncharacterized LOC107986855	0.816	1.888	Up
28611	TRBV5-4	T cell receptor beta variable 5-4	0.647	2.006	Up
1.05E+08	LOC105379749	uncharacterized LOC105379749	1.501	4.217	Up
28601	TRBV6-6	T cell receptor beta variable 6-6	0.933	2.231	Up
28589	TRBV7-9	T cell receptor beta variable 7-9	0.907	1.677	Up
28583	TRBV10-3	T cell receptor beta variable 10-3	0.905	1.999	Up
28577	TRBV12-3	T cell receptor beta variable 12-3	0.842	1.372	Up
28573	TRBV14	T cell receptor beta variable 14	1.238	2.952	Up
28569	TRBV18	T cell receptor beta variable 18	1.15	2.3	Up
28568	TRBV19	T cell receptor beta variable 19	1.174	2.881	Up
28566	TRBV21-1	T cell receptor beta variable 21-1 (pseudogene)	0.931	2.27	Up
5644	PRSS1	serine protease 1	0.877	2.342	Up
28558	TRBV29-1	T cell receptor beta variable 29-1	0.87	2.296	Up
28637	TRBD1	T cell receptor beta diversity 1	1.194	2.95	Up
28630	TRBJ1-6	T cell receptor beta joining 1-6	1.252	2.875	Up
28639	TRBC1	T cell receptor beta constant 1	0.778	1.687	Up
28622	TRBJ2-7	T cell receptor beta joining 2-7	0.725	1.564	Up
28638	TRBC2	T cell receptor beta constant 2	0.656	1.524	Up
28557	TRBV30	T cell receptor beta variable 30	1.178	2.548	Up
1.05E+08	LOC105375541	uncharacterized LOC105375541	1.147	1.889	Up
2051	EPHB6	EPH receptor B6	1.017	3.512	Up
136051	ZNF786	zinc finger protein 786	0.457	1.319	Up
155054	ZNF425	zinc finger protein 425	1.461	5.695	Up
168544	ZNF467	zinc finger protein 467	1.637	3.175	Up
643641	ZNF862	zinc finger protein 862	1.207	4.882	Up
401431	ATP6V0E2-AS1	ATP6V0E2 antisense RNA 1	1.632	4.514	Up
1.05E+08	REPIN1-AS1	REPIN1 antisense RNA 1	1.02	2.402	Up
1.08E+08	LOC107986859		1.413	1.533	Up
728743	LOC728743	zinc finger domain-containing protein LOC728743	1.277	7.724	Up
155038	GIMAP8	GTPase, IMAP family member 8	1.624	10.716	Up
168537	GIMAP7	GTPase, IMAP family member 7	1.525	10.571	Up
55303	GIMAP4	GTPase, IMAP family member 4	1.577	7.06	Up

474344	GIMAP6	GTPase, IMAP family member 6	1.41	9.886	Up
26157	GIMAP2	GTPase, IMAP family member 2	1.615	5.688	Up
1.01E+08	GIMAP1-GIMAP5	GIMAP1-GIMAP5 readthrough	1.436	8.196	Up
170575	GIMAP1	GTPase, IMAP family member 1	1.992	24.637	Up
55340	GIMAP5	GTPase, IMAP family member 5	1.357	5.926	Up
26	AOC1	amine oxidase copper containing 1	4.432	3.192	Up
4846	NOS3	nitric oxide synthase 3	0.685	2.202	Up
285973	ATG9B	autophagy related 9B	1.534	17.016	Up
9311	ASIC3	acid sensing ion channel subunit 3	1.27	1.467	Up
116988	AGAP3	ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	0.815	1.556	Up
1.14E+08	H2BK1	H2B.K variant histone 1	1.724	2.055	Up
6604	SMARCD3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	1.621	5.231	Up
1E+08	WDR86-AS1	WDR86 antisense RNA 1	3.225	4.611	Up
51422	PRKAG2	protein kinase AMP-activated non-catalytic subunit gamma 2	0.394	2.122	Up
1.01E+08	PRKAG2-AS1	PRKAG2 antisense RNA 1	0.687	1.606	Up
1E+08	LINC01003	long intergenic non-protein coding RNA 1003	0.897	1.951	Up
202781	PAXIP1-DT	PAXIP1 divergent transcript	0.882	3.244	Up
1.01E+08	PTPRN2-AS1	PTPRN2 antisense RNA 1	4.952	2.137	Up
57488	ESYT2	extended synaptotagmin 2	0.717	3.431	Up
26260	FBXO25	F-box protein 25	0.617	1.782	Up
1.02E+08	CLN8-AS1	CLN8 antisense RNA 1	1.007	3.32	Up
1.05E+08	LOC105377782	uncharacterized LOC105377782	2.869	1.318	Up
157285	PRAG1	PEAK1 related, kinase-activating pseudokinase 1	1.384	4.311	Up
137075	CLDN23	claudin 23	4.156	2.898	Up
79660	PPP1R3B	protein phosphatase 1 regulatory subunit 3B	0.838	2.164	Up
8658	TNKS	tankyrase	0.729	2.503	Up
286046	XKR6	XK related 6	0.84	1.471	Up
1508	CTSB	cathepsin B	0.703	1.306	Up
85002	FAM86B1	family with sequence similarity 86 member B1	0.815	1.361	Up
619423	FAM85A	family with sequence similarity 85 member A	1.527	1.453	Up
1.01E+08	FAM86B2-DT	FAM86B2 divergent transcript	1.459	9.844	Up
4481	MSR1	macrophage scavenger receptor 1	2.69	2.607	Up
427	ASAH1	N-acylsphingosine amidohydrolase 1	0.937	3.72	Up
55790	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1	2.399	21.617	Up
55174	INTS10	integrator complex subunit 10	0.657	2.556	Up
4023	LPL	lipoprotein lipase	2.006	3.364	Up
2675	GFRA2	GDNF family receptor alpha 2	5.457	2.465	Up
10174	SORBS3	sorbin and SH3 domain containing 3	0.904	1.71	Up
1.05E+08	LOC105379326		1.671	4.603	Up
10863	ADAM28	ADAM metallopeptidase domain 28	1.831	2.019	Up

4747	NEFL	neurofilament light chain	1.351	1.626	Up
157489	SDAD1P1	SDA1 domain containing 1 pseudogene 1	1.024	2.202	Up
1.05E+08	LOC105379337		1.777	1.742	Up
1808	DPYSL2	dihydropyrimidinase like 2	1.354	5.486	Up
23087	TRIM35	tripartite motif containing 35	0.427	1.371	Up
1191	CLU	clusterin	1.212	3.257	Up
55893	ZNF395	zinc finger protein 395	0.877	4.296	Up
51669	SARAF	store-operated calcium entry associated regulatory factor	1.347	5.803	Up
23484	LEPROTL1	leptin receptor overlapping transcript like 1	1.17	4.056	Up
8754	ADAM9	ADAM metallopeptidase domain 9	1.301	1.446	Up
286	ANK1	ankyrin 1	0.973	1.339	Up
7994	KAT6A	lysine acetyltransferase 6A	0.993	4.015	Up
1.08E+08	LOC107986939	uncharacterized LOC107986939	2.011	4.296	Up
10947	AP3M2	adaptor related protein complex 3 subunit mu 2	0.751	1.812	Up
6575	SLC20A2	solute carrier family 20 member 2	0.54	2.163	Up
81790	RNF170	ring finger protein 170	0.578	2.693	Up
1052	CEBPD	CCAAT enhancer binding protein delta	1.036	1.775	Up
115294	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	0.949	2.584	Up
1.03E+08	PCMTD1-DT	PCMTD1 divergent transcript	1.384	3.536	Up
9821	RB1CC1	RB1 inducible coiled-coil 1	0.628	3.587	Up
5324	PLAG1	PLAG1 zinc finger	1.147	2.635	Up
9760	TOX	thymocyte selection associated high mobility group box	0.682	1.622	Up
444	ASPH	aspartate beta-hydroxylase	1.067	4.15	Up
5150	PDE7A	phosphodiesterase 7A	0.998	5.51	Up
1.08E+08	LOC107986948		0.808	1.657	Up
137872	ADHFE1	alcohol dehydrogenase iron containing 1	1.136	1.782	Up
157777	MCMDC2	minichromosome maintenance domain containing 2	0.815	2.402	Up
641638	SNHG6	small nucleolar RNA host gene 6	0.952	3.032	Up
5569	PKIA	cAMP-dependent protein kinase inhibitor alpha	0.527	1.566	Up
619279	ZNF704	zinc finger protein 704	2.723	4.317	Up
2167	FABP4	fatty acid binding protein 4	3.524	5.396	Up
245972	ATP6V0D2	ATPase H+ transporting V0 subunit d2	3.151	2.352	Up
1.05E+08	WWP1-AS1	WWP1 antisense RNA 1	2.096	3.22	Up
11059	WWP1	WW domain containing E3 ubiquitin protein ligase 1	0.515	4.057	Up
51115	RMDN1	regulator of microtubule dynamics 1	0.338	1.563	Up
54704	PDP1	pyruvate dehydrogenase phosphatase catalytic subunit 1	0.614	2.698	Up
9791	PTDSS1	phosphatidylserine synthase 1	0.573	2.122	Up
6383	SDC2	syndecan 2	1.902	3.009	Up
10404	CPQ	carboxypeptidase Q	0.676	2.073	Up
26986	PABPC1	poly(A) binding protein cytoplasmic 1	1.255	6.944	Up
1.02E+08	MIR7705	microRNA 7705	1.255	4.032	Up

55074	OXR1	oxidation resistance 1	1.376	23.64	Up
7227	TRPS1	transcriptional repressor GATA binding 1	0.699	2.873	Up
64798	DEPTOR	DEP domain containing MTOR interacting protein	1.467	2.416	Up
114907	FBXO32	F-box protein 32	2.277	7.281	Up
9788	MTSS1	MTSS I-BAR domain containing 1	2.045	23.224	Up
1.05E+08	LOC105375748		2.937	2.328	Up
1.08E+08	LOC107986974		2.313	2.076	Up
1E+08	LINC00861	long intergenic non-protein coding RNA 861	1.705	6.524	Up
5462	POU5F1B	POU class 5 homeobox 1B	2.177	1.591	Up
359809	PEG13	paternally expressed 13	2.111	9.09	Up
51337	THEM6	thioesterase superfamily member 6	0.971	6.427	Up
2738	GLI4	GLI family zinc finger 4	1.09	3.66	Up
1.01E+08	MINCR	MYC-induced long non-coding RNA	1.086	2.402	Up
79943	ZNF696	zinc finger protein 696	0.916	2.9	Up
114822	RHPN1	rhophilin Rho GTPase binding protein 1	0.837	1.48	Up
1E+08	LOC100310756	uncharacterized LOC100310756	1.252	5.919	Up
9831	ZNF623	zinc finger protein 623	0.592	2.114	Up
286075	ZNF707	zinc finger protein 707	0.412	1.641	Up
83481	EPPK1	epiplakin 1	2.106	4.463	Up
50626	ZFTRAF1	zinc finger TRAF-type containing 1	0.436	1.7	Up
90987	ZNF251	zinc finger protein 251	0.872	2.986	Up
340385	ZNF517	zinc finger protein 517	0.97	3.808	Up
1E+08	LOC100130027	uncharacterized LOC100130027	1.072	2.859	Up
58500	ZNF250	zinc finger protein 250	0.667	2.765	Up
286101	ZNF252P	zinc finger protein 252, pseudogene	0.746	4.247	Up
81704	DOCK8	dedicator of cytokinesis 8	0.7	5.361	Up
1.12E+08	DOCK8-AS2	DOCK8 antisense RNA 2	0.738	3.427	Up
6595	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	0.885	3.373	Up
169792	GLIS3	GLIS family zinc finger 3	1.902	1.884	Up
6505	SLC1A1	solute carrier family 1 member 1	2.957	5.955	Up
55064	SPATA6L	spermatogenesis associated 6 like	1.297	2.811	Up
403313	PLPP6	phospholipid phosphatase 6	1.29	7.454	Up
55664	CDC37L1	cell division cycle 37 like 1, HSP90 cochaperone	0.547	2.931	Up
6013	RLN1	relaxin 1	1.597	1.441	Up
57589	RIC1	RIC1 homolog, RAB6A GEF complex partner 1	0.48	2.491	Up
79956	ERMP1	endoplasmic reticulum metallopeptidase 1	1.102	4.298	Up
115426	UHRF2	ubiquitin like with PHD and ring finger domains 2	0.621	3.193	Up
23081	KDM4C	lysine demethylase 4C	0.508	4.682	Up
158326	FREM1	FRAS1 related extracellular matrix 1	5.178	2.86	Up
6619	SNAPC3	small nuclear RNA activating complex polypeptide 3	0.47	2.498	Up
11168	PSIP1	PC4 and SRSF1 interacting protein 1	0.751	3.622	Up
340485	ACER2	alkaline ceramidase 2	0.99	4.132	Up
4300	MLLT3	MLLT3 super elongation complex subunit	1.216	7.389	Up

203228	C9orf72	C9orf72-SMCR8 complex subunit	0.547	1.458	Up
10210	TOPORS	TOP1 binding arginine/serine rich protein, E3 ubiquitin ligase	0.461	3.666	Up
1E+08	SMIM27	small integral membrane protein 27	0.873	2.148	Up
4799	NFX1	nuclear transcription factor, X-box binding 1	0.47	2.835	Up
360	AQP3	aquaporin 3 (Gill blood group)	1.923	9.157	Up
11191	PTENP1	phosphatase and tensin homolog pseudogene 1	0.496	1.416	Up
54926	UBE2R2	ubiquitin conjugating enzyme E2 R2	0.65	4.759	Up
84688	C9orf24	chromosome 9 open reading frame 24	1.769	1.332	Up
3590	IL11RA	interleukin 11 receptor subunit alpha	1.245	2.691	Up
80256	ATOSB	atos homolog B	0.724	2.69	Up
7169	TPM2	tropomyosin 2	2.48	2.075	Up
51754	TMEM8B	transmembrane protein 8B	1.081	4.243	Up
8434	RECK	reversion inducing cysteine rich protein with kazal motifs	0.668	4.028	Up
152006	RNF38	ring finger protein 38	0.729	3.653	Up
84186	ZCCHC7	zinc finger CCHC-type containing 7	0.527	1.72	Up
64425	POLR1E	RNA polymerase I subunit E	0.53	1.76	Up
26267	FBXO10	F-box protein 10	0.951	1.603	Up
158228	FAM201A	family with sequence similarity 201 member A	1.781	1.314	Up
1.05E+08	LOC105376046		1.936	2.031	Up
1E+08	FRG1HP	FSHD region gene 1 family member H, pseudogene	0.803	6.694	Up
595135	PGM5P2	phosphoglucomutase 5 pseudogene 2	0.981	1.631	Up
286380	FOXD4L3	forkhead box D4 like 3	4.698	1.888	Up
301	ANXA1	annexin A1	0.803	1.9	Up
5125	PCSK5	proprotein convertase subtilisin/kexin type 5	1.746	7.651	Up
2776	GNAQ	G protein subunit alpha q	0.518	2.442	Up
7088	TLE1	TLE family member 1, transcriptional corepressor	1.128	1.614	Up
80318	GKAP1	G kinase anchoring protein 1	1.166	3.021	Up
23287	AGTPBP1	ATP/GTP binding carboxypeptidase 1	0.899	6.193	Up
51280	GOLM1	golgi membrane protein 1	0.5	1.54	Up
2619	GAS1	growth arrest specific 1	1.479	1.953	Up
10507	SEMA4D	semaphorin 4D	0.905	4.576	Up
6850	SYK	spleen associated tyrosine kinase	1.64	3.815	Up
89846	FGD3	FYVE, RhoGEF and PH domain containing 3	1.088	9.137	Up
1.02E+08	LOC101927954	uncharacterized LOC101927954	1.05	5.708	Up
203328	SUSD3	sushi domain containing 3	0.946	2.141	Up
1.08E+08	LOC107987097	uncharacterized LOC107987097	1.561	1.82	Up
5253	PHF2	PHD finger protein 2	0.889	2.903	Up
169841	ZNF169	zinc finger protein 169	0.455	1.794	Up
2203	FBP1	fructose-bisphosphatase 1	3.002	5.229	Up
5727	PTCH1	patched 1	1.247	2.728	Up
375748	ERCC6L2	ERCC excision repair 6 like 2	0.69	2.215	Up
22927	HABP4	hyaluronan binding protein 4	1.032	12.633	Up
8555	CDC14B	cell division cycle 14B	1.198	3.571	Up
22869	ZNF510	zinc finger protein 510	0.836	6.276	Up
158431	ZNF782	zinc finger protein 782	0.8	3.272	Up
55363	HEMGN	hemogen	1.765	2.418	Up

10541	ANP32B	acidic nuclear phosphoprotein 32 family member B	0.624	1.985	Up
55357	TBC1D2	TBC1 domain family member 2	0.898	2.288	Up
79695	GALNT12	polypeptide N-acetylgalactosaminyltransferase 12	1.162	3.554	Up
116443	GRIN3A	glutamate ionotropic receptor NMDA type subunit 3A	1.028	1.309	Up
23446	SLC44A1	solute carrier family 44 member 1	0.643	4.544	Up
23731	TMEM245	transmembrane protein 245	0.762	4.616	Up
22949	PTGR1	prostaglandin reductase 1	1.686	1.336	Up
158405	KIAA1958	KIAA1958	0.415	1.423	Up
401548	SNX30	sorting nexin family member 30	1.094	8.864	Up
81932	HDHD3	haloacid dehalogenase like hydrolase domain containing 3	0.383	1.631	Up
210	ALAD	aminolevulinate dehydratase	0.417	2.279	Up
5005	ORM2	orosomucoid 2	2.501	2.424	Up
80709	AKNA	AT-hook transcription factor	0.947	1.803	Up
25861	WHRN	whirlin	1.565	1.712	Up
944	TNFSF8	TNF superfamily member 8	0.874	1.392	Up
7099	TLR4	toll like receptor 4	2.421	4.304	Up
1955	MEGF9	multiple EGF like domains 9	0.58	2.446	Up
727	C5	complement C5	1.299	2.307	Up
2934	GSN	gelsolin	2.315	1.52	Up
57000	GSN-AS1	GSN antisense RNA 1	2.292	1.456	Up
5742	PTGS1	prostaglandin-endoperoxide synthase 1	1.035	2.073	Up
23637	RABGAP1	RAB GTPase activating protein 1	0.757	6.986	Up
286205	SCAI	suppressor of cancer cell invasion	0.85	1.422	Up
5090	PBX3	PBX homeobox 3	0.9	4.671	Up
2022	ENG	endoglin	0.624	2.561	Up
30815	ST6GALNAC6	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	0.562	2.333	Up
399665	EEIG1	estrogen-induced osteoclastogenesis regulator 1	1.073	1.879	Up
203245	NAIF1	nuclear apoptosis inducing factor 1	0.436	1.303	Up
1759	DNM1	dynamin 1	1.94	1.884	Up
6709	SPTAN1	spectrin alpha, non-erythrocytic 1	0.775	1.884	Up
1.01E+08	ZDHHC12-DT	ZDHHC12 divergent transcript	1.266	1.39	Up
10444	ZER1	zyg-11 related cell cycle regulator	0.678	3.555	Up
883	KYAT1	kynurenine aminotransferase 1	0.886	2.237	Up
56262	LRRC8A	leucine rich repeat containing 8 VRAC subunit A	0.552	2.331	Up
389792	IER5L	immediate early response 5 like	2.091	3.072	Up
1.05E+08	IER5L-AS1	IER5L antisense RNA 1	4.165	3.922	Up
10319	LAMC3	laminin subunit gamma 3	2.131	1.318	Up
286336	FAM78A	family with sequence similarity 78 member A	1.476	7.415	Up
84726	PRRC2B	proline rich coiled-coil 2B	1.148	3.456	Up
1.08E+08	LOC107987135		1.105	4.776	Up
83549	UCK1	uridine-cytidine kinase 1	0.437	1.558	Up
1621	DBH	dopamine beta-hydroxylase	1.465	2.083	Up
138948	DBH-AS1	DBH antisense RNA 1	1.92	2.808	Up
1757	SARDH	sarcosine dehydrogenase	0.707	1.309	Up
2219	FCN1	ficolin 1	6.84	5.48	Up
138311	DIPK1B	divergent protein kinase domain 1B	1.305	3.686	Up

84973	SNHG7	small nucleolar RNA host gene 7	1.727	9.993	Up
9022	CLIC3	chloride intracellular channel 3	1.723	1.772	Up
1E+08	MAN1B1-DT	MAN1B1 divergent transcript	1.416	1.863	Up
11253	MAN1B1	mannosidase alpha class 1B member 1	0.905	8.361	Up
375775	PNPLA7	patatin like phospholipase domain containing 7	1.209	2.634	Up
22982	DIP2C	disco interacting protein 2 homolog C	1.631	1.575	Up
22884	WDR37	WD repeat domain 37	0.739	3.542	Up
10276	NET1	neuroepithelial cell transforming 1	1.519	3.317	Up
79754	ASB13	ankyrin repeat and SOCS box containing 13	1.036	4.282	Up
5588	PRKCQ	protein kinase C theta	0.499	3.172	Up
1.02E+08	LINC02648	long intergenic non-protein coding RNA 2648	1.57	2.228	Up
441549	CDNF	cerebral dopamine neurotrophic factor	1.56	3.218	Up
9397	NMT2	N-myristoyltransferase 2	1.374	18.93	Up
1.08E+08	LOC107984210	uncharacterized LOC107984210	1.214	3.308	Up
1.01E+08	VIM-AS1	VIM antisense RNA 1	0.835	3.152	Up
7431	VIM	vimentin	0.731	1.889	Up
4360	MRC1	mannose receptor C-type 1	2.252	1.527	Up
84898	PLXDC2	plexin domain containing 2	2.861	6.678	Up
64215	DNAJC1	DnaJ heat shock protein family (Hsp40) member C1	0.732	1.537	Up
220213	OTUD1	OTU deubiquitinase 1	1.357	23.542	Up
57584	ARHGAP21	Rho GTPase activating protein 21	0.903	1.526	Up
79896	THNSL1	threonine synthase like 1	1.272	4.537	Up
54518	APBB1IP	amyloid beta precursor protein binding family B member 1 interacting protein	0.881	6.299	Up
143098	MPP7	MAGUK p55 scaffold protein 7	1.829	6.191	Up
1.05E+08	LOC105376467	replaced by ID 143098	2.056	3.081	Up
51322	WAC	WW domain containing adaptor with coiled-coil	0.306	1.521	Up
6935	ZEB1	zinc finger E-box binding homeobox 1	1.04	4.006	Up
94134	ARHGAP12	Rho GTPase activating protein 12	1.091	5.246	Up
80314	EPC1	enhancer of polycomb homolog 1	0.488	1.912	Up
3688	ITGB1	integrin subunit beta 1	0.531	1.805	Up
1.02E+08	IATPR	ITGB1 adjacent tumor promoting lncRNA	1.601	2.666	Up
57209	ZNF248	zinc finger protein 248	1.012	6.805	Up
219749	ZNF25	zinc finger protein 25	0.972	10.615	Up
7581	ZNF33A	zinc finger protein 33A	0.631	4.615	Up
7582	ZNF33B	zinc finger protein 33B	1.168	4.87	Up
1.05E+08	LOC105378268	uncharacterized LOC105378268	1.851	6.251	Up
220972	MARCHF8	membrane associated ring-CH-type finger 8	0.777	3.665	Up
1.05E+08	LOC105378286	uncharacterized LOC105378286	0.782	1.416	Up
1.01E+08	ANTXRLP1	ANTXR like pseudogene 1	2.901	5.956	Up
57705	WDFY4	WDFY family member 4	1.586	1.308	Up
2074	ERCC6	ERCC excision repair 6, chromatin remodeling factor	0.621	1.772	Up

26091	HERC4	HECT and RLD domain containing E3 ubiquitin protein ligase 4	0.38	2.071	Up
80312	TET1	tet methylcytosine dioxygenase 1	2.015	3.911	Up
80201	HKDC1	hexokinase domain containing 1	3.399	9.877	Up
55506	MACROH2A2	macroH2A.2 histone	0.931	1.996	Up
219743	TYSND1	trypsin like peroxisomal matrix peptidase 1	1.036	6.172	Up
55315	SLC29A3	solute carrier family 29 member 3	0.813	2.668	Up
64072	CDH23	cadherin related 23	3.118	7.206	Up
414152	C10orf105	chromosome 10 open reading frame 105	2.772	2.252	Up
64115	VSIR	V-set immunoregulatory receptor	1.474	5.762	Up
5660	PSAP	prosaposin	0.751	4.25	Up
9806	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2	1.195	7.908	Up
414245	DNAJC9-AS1	DNAJC9 and MRPS16 antisense RNA 1	1.653	3.6	Up
1.02E+08	PPP3CB-AS1	PPP3CB antisense RNA 1 (head to head)	0.578	2.199	Up
1.08E+08	LOC107984243	uncharacterized LOC107984243	2.142	2.904	Up
23053	ZSWIM8	zinc finger SWIM-type containing 8	0.639	1.409	Up
1.01E+08	ZSWIM8-AS1	ZSWIM8 antisense RNA 1	0.767	1.853	Up
818	CAMK2G	calcium/calmodulin dependent protein kinase II gamma	1.122	9.153	Up
729262	NUTM2B	NUT family member 2B	1.152	2.276	Up
283008	NUTM2E	NUT family member 2E	1.013	3.502	Up
81619	TSPAN14	tetraspanin 14	1.526	7.715	Up
92211	CDHR1	cadherin related family member 1	2.143	1.398	Up
728118	NUTM2A	NUT family member 2A	1.15	2.595	Up
439994	LINC00863	long intergenic non-protein coding RNA 863	0.866	1.39	Up
728130	NUTM2D	NUT family member 2D	1.278	2.359	Up
9060	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	1.26	1.562	Up
3988	LIPA	lipase A, lysosomal acid type	0.64	2.216	Up
3363	HTR7	5-hydroxytryptamine receptor 7	2.011	2.015	Up
80351	TNKS2	tankyrase 2	0.481	2.457	Up
10023	FRAT1	FRAT regulator of WNT signaling pathway 1	1.656	10.685	Up
23401	FRAT2	FRAT regulator of WNT signaling pathway 2	1.269	7.587	Up
64210	MMS19	MMS19 homolog, cytosolic iron-sulfur assembly component	0.439	3.046	Up
118812	MORN4	MORN repeat containing 4	0.928	1.321	Up
60370	AVPI1	arginine vasopressin induced 1	1.359	3.303	Up
118813	ZFYVE27	zinc finger FYVE-type containing 27	0.368	1.327	Up
51076	CUTC	cutC copper transporter	0.381	1.482	Up
23268	DNMBP	dynamin binding protein	1.267	4.694	Up
7479	WNT8B	Wnt family member 8B	3.161	2.601	Up
55719	SLF2	SMC5-SMC6 complex localization factor 2	0.877	4.521	Up
84445	LZTS2	leucine zipper tumor suppressor 2	1.128	6.416	Up
79955	PDZD7	PDZ domain containing 7	1.323	2.388	Up
81855	SFXN3	sideroflexin 3	1.312	8.129	Up
8945	BTRC	beta-transducin repeat containing E3 ubiquitin protein ligase	0.331	1.919	Up

27343	POLL	DNA polymerase lambda	0.644	3.564	Up
8861	LDB1	LIM domain binding 1	0.731	4.036	Up
1.01E+08	C10orf95-AS1	C10orf95 antisense RNA 1	0.543	1.451	Up
51684	SUFU	SUFU negative regulator of hedgehog signaling	0.718	3.512	Up
81603	TRIM8	tripartite motif containing 8	1.105	5.876	Up
1.05E+08	LOC105378460	uncharacterized LOC105378460	1.112	3.532	Up
54838	WBP1L	WW domain binding protein 1 like	0.563	1.707	Up
54805	CNNM2	cyclin and CBS domain divalent metal cation transport mediator 2	0.403	2.206	Up
51063	CALHM2	calcium homeostasis modulator family member 2	1.561	4.665	Up
79991	STN1	STN1 subunit of CST complex	0.409	1.373	Up
85450	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein	0.425	2.09	Up
1.01E+08	ADD3-AS1	ADD3 antisense RNA 1	1.395	4.796	Up
120	ADD3	adducin 3	1.558	16.009	Up
4601	MXI1	MAX interactor 1, dimerization protein	0.939	9.307	Up
282997	PDCD4-AS1	PDCD4 antisense RNA 1	1.445	4.969	Up
27250	PDCD4	programmed cell death 4	0.915	3.024	Up
1.01E+08	MIR4680	microRNA 4680	0.928	1.762	Up
92482	BBIP1	BBSome interacting protein 1	0.623	1.761	Up
84632	AFAP1L2	actin filament associated protein 1 like 2	1.946	4.917	Up
3983	ABLIM1	actin binding LIM protein 1	1.14	2.772	Up
22841	RAB11FIP2	RAB11 family interacting protein 2	0.538	3.691	Up
9531	BAG3	BAG cochaperone 3	0.865	4.969	Up
59338	PLEKHA1	pleckstrin homology domain containing A1	0.545	2.03	Up
5654	HTRA1	HtrA serine peptidase 1	5.153	2.985	Up
196792	FAM24B	family with sequence similarity 24 member B	0.907	1.565	Up
64376	IKZF5	IKAROS family zinc finger 5	0.397	2.402	Up
64077	LHPP	phospholysine phosphohistidine inorganic pyrophosphate phosphatase	1.077	6.251	Up
54764	ZRANB1	zinc finger RANBP2-type containing 1	0.481	1.823	Up
1488	CTBP2	C-terminal binding protein 2	0.436	1.892	Up
51272	BET1L	Bet1 golgi vesicular membrane trafficking protein like	0.649	7.317	Up
23410	SIRT3	sirtuin 3	0.714	5.893	Up
171389	NLRP6	NLR family pyrin domain containing 6	1.433	1.418	Up
1.05E+08	LOC105376505	uncharacterized LOC105376505	2.882	2.9	Up
59307	SIGIRR	single Ig and TIR domain containing	1.638	19.971	Up
143666	LOC143666	uncharacterized LOC143666	1.951	2.682	Up
10522	DEAF1	DEAF1 transcription factor	1.174	1.907	Up
283232	TMEM80	transmembrane protein 80	1.566	8.201	Up
57104	PNPLA2	patatin like phospholipase domain containing 2	0.685	2.56	Up
81532	MOB2	MOB kinase activator 2	0.556	1.928	Up
338651	KRTAP5-AS1	KRTAP5-1/KRTAP5-2 antisense RNA 1	1.727	2.98	Up
440021	KRTAP5-2	keratin associated protein 5-2	1.99	1.44	Up
402778	IFITM10	interferon induced transmembrane protein 10	1.75	4.141	Up

1509	CTSD	cathepsin D	1.409	11.555	Up
1.02E+08	MIR7847	microRNA 7847	0.503	1.606	Up
7140	TNNT3	troponin T3, fast skeletal type	2.347	2.746	Up
29125	C11orf21	chromosome 11 open reading frame 21	2.366	2.835	Up
10077	TSPAN32	tetraspanin 32	1.738	2.004	Up
3784	KCNQ1	potassium voltage-gated channel subfamily Q member 1	0.823	4.767	Up
1028	CDKN1C	cyclin dependent kinase inhibitor 1C	1.111	2.234	Up
5002	SLC22A18	solute carrier family 22 member 18	1.609	6.087	Up
6786	STIM1	stromal interaction molecule 1	0.436	3.023	Up
55128	TRIM68	tripartite motif containing 68	0.662	4.044	Up
322	APBB1	amyloid beta precursor protein binding family B member 1	0.581	1.529	Up
23378	RRP8	ribosomal RNA processing 8	0.347	1.46	Up
1200	TPP1	tripeptidyl peptidase 1	0.993	7.286	Up
56672	AKIP1	A-kinase interacting protein 1	1.044	3.956	Up
493900	TMEM9B-AS1	TMEM9B antisense RNA 1	1.918	3.459	Up
729013	ZBED5-AS1	ZBED5 antisense RNA 1	0.791	1.635	Up
1.05E+08	LOC105376548	uncharacterized LOC105376548	2.48	7.344	Up
27122	DKK3	dickkopf WNT signaling pathway inhibitor 3	2.524	2.504	Up
406	BMAL1	basic helix-loop-helix ARNT like 1	0.452	1.646	Up
10418	SPON1	spondin 1	3.71	91.073	Up
5140	PDE3B	phosphodiesterase 3B	1.121	7.775	Up
144100	PLEKHA7	pleckstrin homology domain containing A7	1.171	1.343	Up
4925	NUCB2	nucleobindin 2	0.904	1.957	Up
144110	TMEM86A	transmembrane protein 86A	1.356	2.899	Up
89797	NAV2	neuron navigator 2	2.165	1.37	Up
497258	BDNF-AS	BDNF antisense RNA	1.744	1.707	Up
79832	QSER1	glutamine and serine rich 1	0.478	1.797	Up
338739	CSTF3-DT	CSTF3 divergent transcript	2.176	1.324	Up
26273	FBXO3	F-box protein 3	0.519	1.49	Up
847	CAT	catalase	0.468	2.802	Up
90139	TSPAN18	tetraspanin 18	1.914	20.111	Up
1408	CRY2	cryptochrome circadian regulator 2	0.473	1.348	Up
8525	DGKZ	diacylglycerol kinase zeta	0.719	3.446	Up
6688	SPI1	Spi-1 proto-oncogene	2.23	3.54	Up
91252	SLC39A13	solute carrier family 39 member 13	0.729	5.777	Up
5795	PTPRJ	protein tyrosine phosphatase receptor type J	0.766	2.301	Up
219539	YPEL4	yippee like 4	2.433	7.057	Up
1.02E+08	FAM111A-DT	FAM111A divergent transcript	1.496	2.922	Up
63901	FAM111A	FAM111 trypsin like peptidase A	0.653	1.775	Up
23220	DTX4	deltex E3 ubiquitin ligase 4	2.444	4.665	Up
219972	MPEG1	macrophage expressed 1	2.026	1.334	Up
51338	MS4A4A	membrane spanning 4-domains A4A	3.151	1.422	Up
1.08E+08	PRPF19-DT	PRPF19 divergent transcript	2.291	1.409	Up
923	CD6	CD6 molecule	0.498	3.241	Up
921	CD5	CD5 molecule	0.625	1.787	Up

7439	BEST1	bestrophin 1	0.852	1.82	Up
1.08E+08	LOC107984334	uncharacterized LOC107984334	1.304	1.546	Up
2495	FTH1	ferritin heavy chain 1	0.908	1.738	Up
79026	AHNAK	AHNAK nucleoprotein	0.88	1.37	Up
64852	TUT1	terminal uridylyl transferase 1, U6 snRNA-specific	0.403	3.217	Up
256364	EML3	EMAP like 3	0.541	2.435	Up
6094	ROM1	retinal outer segment membrane protein 1	1.776	4.17	Up
51035	UBXN1	UBX domain protein 1	0.789	2.227	Up
26580	BSCL2	BSCL2 lipid droplet biogenesis associated, seipin	0.996	5.088	Up
2785	GNG3	G protein subunit gamma 3	1.207	2.42	Up
23642	SNHG1	small nucleolar RNA host gene 1	1.518	5.637	Up
3338	DNAJC4	DnaJ heat shock protein family (Hsp40) member C4	1.127	8.543	Up
7423	VEGFB	vascular endothelial growth factor B	0.669	2.75	Up
10235	RASGRP2	RAS guanyl releasing protein 2	2.25	32.157	Up
5837	PYGM	glycogen phosphorylase, muscle associated	1.595	1.312	Up
5871	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2	0.468	2.32	Up
10938	EHD1	EH domain containing 1	0.453	1.419	Up
283130	SLC25A45	solute carrier family 25 member 45	0.638	1.42	Up
4054	LTBP3	latent transforming growth factor beta binding protein 3	0.637	3.584	Up
6494	SIPA1	signal-induced proliferation-associated 1	0.872	1.535	Up
83638	C11orf68	chromosome 11 open reading frame 68	0.854	6.517	Up
55690	PACS1	phosphofurin acidic cluster sorting protein 1	1.351	7.547	Up
9610	RIN1	Ras and Rab interactor 1	0.859	1.757	Up
11041	B4GAT1	beta-1,4-glucuronyltransferase 1	1.302	8.028	Up
582	BBS1	Bardet-Biedl syndrome 1	0.555	1.386	Up
254359	ZDHHC24	zinc finger DHHC-type containing 24	0.578	1.706	Up
8722	CTSF	cathepsin F	2.021	13.338	Up
57804	POLD4	DNA polymerase delta 4, accessory subunit	0.843	2.898	Up
374403	TBC1D10C	TBC1 domain family member 10C	0.753	2.71	Up
5790	PTPRCAP	protein tyrosine phosphatase receptor type C associated protein	0.685	1.479	Up
57010	CABP4	calcium binding protein 4	2.162	1.706	Up
221	ALDH3B1	aldehyde dehydrogenase 3 family member B1	3.189	3.778	Up
220064	LTO1	LTO1 maturation factor of ABCE1	0.882	2.442	Up
4926	NUMA1	nuclear mitotic apparatus protein 1	1.068	1.983	Up
1E+08	LOC100128494	uncharacterized LOC100128494	1.051	1.675	Up
116985	ARAP1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	0.691	2.589	Up
23201	FAM168A	family with sequence similarity 168 member A	0.689	2.497	Up
58473	PLEKHB1	pleckstrin homology domain containing B1	1.063	5.895	Up
283209	PGM2L1	phosphoglucomutase 2 like 1	1.294	1.927	Up
10008	KCNE3	potassium voltage-gated channel subfamily E regulatory subunit 3	2.905	2.409	Up
387787	LIPT2	lipoyl(octanoyl) transferase 2	0.896	3.912	Up
1E+08	LIPT2-AS1	LIPT2 antisense RNA 1	1.685	5.13	Up
11309	SLCO2B1	solute carrier organic anion transporter family member 2B1	2.918	5.354	Up

1.01E+08	TPBGL	trophoblast glycoprotein like	2.272	1.697	Up
408	ARRB1	arrestin beta 1	0.527	1.839	Up
81544	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5	1.308	4.093	Up
1.01E+08	GVQW3	GVQW motif containing 3	1.175	2.158	Up
726	CAPN5	calpain 5	0.784	1.342	Up
4647	MYO7A	myosin VIIA	2.526	1.654	Up
283219	KCTD21	potassium channel tetramerization domain containing 21	0.948	1.701	Up
54843	SYTL2	synaptotagmin like 2	1.466	2.876	Up
85459	CEP295	centrosomal protein 295	1.044	1.675	Up
79101	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D	1.034	3.984	Up
143689	PIWIL4	piwi like RNA-mediated gene silencing 4	2.038	2.694	Up
10929	SRSF8	serine and arginine rich splicing factor 8	0.39	2.105	Up
1E+08	LOC100129203	uncharacterized LOC100129203	1.288	3.867	Up
9702	CEP57	centrosomal protein 57	0.871	4.213	Up
84441	MAML2	mastermind like transcriptional coactivator 2	0.722	1.66	Up
329	BIRC2	baculoviral IAP repeat containing 2	0.629	1.38	Up
114908	TMEM123	transmembrane protein 123	0.997	3.712	Up
143879	KBTBD3	kelch repeat and BTB domain containing 3	0.795	1.738	Up
1.05E+08	LOC105369477	uncharacterized LOC105369477	1.079	3.34	Up
472	ATM	ATM serine/threonine kinase	1.593	10.627	Up
160140	C11orf65	chromosome 11 open reading frame 65	1.575	3.751	Up
23235	SIK2	salt inducible kinase 2	0.841	2.161	Up
7704	ZBTB16	zinc finger and BTB domain containing 16	1.28	2.589	Up
23387	SIK3	SIK family kinase 3	0.588	1.37	Up
51092	SIDT2	SID1 transmembrane family member 2	1.065	9.14	Up
1.01E+08	LOC100652768	uncharacterized LOC100652768	1.016	2.854	Up
23621	BACE1	beta-secretase 1	0.767	1.437	Up
916	CD3E	CD3 epsilon subunit of T-cell receptor complex	0.567	1.881	Up
917	CD3G	CD3 gamma subunit of T-cell receptor complex	0.987	3.107	Up
84866	TMEM25	transmembrane protein 25	0.691	2.569	Up
1.05E+08	LOC105369519	uncharacterized LOC105369519	3.097	1.853	Up
1656	DDX6	DEAD-box helicase 6	0.511	2.319	Up
643	CXCR5	C-X-C motif chemokine receptor 5	0.764	1.588	Up
283149	BCL9L	BCL9 like	1.417	2.86	Up
55823	VPS11	VPS11 core subunit of CORVET and HOPS complexes	0.662	1.864	Up
25988	HINFP	histone H4 transcription factor	0.687	2.947	Up
79102	RNF26	ring finger protein 26	0.44	1.532	Up
219899	TBCEL	tubulin folding cofactor E like	0.549	2.065	Up
1.05E+08	SORL1-AS1	SORL1 antisense RNA 1	0.972	1.327	Up
6653	SORL1	sortilin related receptor 1	2	12.29	Up
84959	UBASH3B	ubiquitin associated and SH3 domain containing B	1.975	6.988	Up

4013	VWA5A	von Willebrand factor A domain containing 5A	1.328	9.406	Up
54414	SIAE	sialic acid acetylesterase	0.464	1.32	Up
219855	SLC37A2	solute carrier family 37 member 2	4.022	11.358	Up
2113	ETS1	ETS proto-oncogene 1, transcription factor	0.477	1.562	Up
2313	FLI1	Fli-1 proto-oncogene, ETS transcription factor	1.138	5.963	Up
219833	KCNJ5-AS1	KCNJ5 antisense RNA 1	2.827	2.012	Up
120224	TMEM45B	transmembrane protein 45B	2.152	4.514	Up
4798	NFRKB	nuclear factor related to kappaB binding protein	0.728	1.85	Up
56980	PRDM10	PR/SET domain 10	0.528	2.647	Up
29068	ZBTB44	zinc finger and BTB domain containing 44	0.677	2.255	Up
283174	MIR4697HG	replaced by ID 22997	1.545	2.552	Up
22997	IGSF9B	immunoglobulin superfamily member 9B	1.413	1.475	Up
112936	VPS26B	VPS26 retromer complex component B	0.834	19.896	Up
5893	RAD52	RAD52 homolog, DNA repair protein	0.685	2.471	Up
144699	FBXL14	F-box and leucine rich repeat protein 14	0.934	5.783	Up
196513	DCP1B	decapping mRNA 1B	0.447	1.996	Up
775	CACNA1C	calcium voltage-gated channel subunit alpha1 C	1.193	1.326	Up
1.01E+08	CACNA1C-AS2	CACNA1C antisense RNA 2	1.472	1.568	Up
1.05E+08	PARP11-AS1	PARP11 antisense RNA 1	2.15	4.539	Up
928	CD9	CD9 molecule	2.685	35.486	Up
678655	CD27-AS1	CD27 antisense RNA 1	1.456	4.257	Up
939	CD27	CD27 molecule	1.51	4.13	Up
9918	NCAPD2	non-SMC condensin I complex subunit D2	0.5	2.154	Up
1.12E+08	GAPDH-DT	GAPDH divergent transcript	0.572	2.652	Up
51147	ING4	inhibitor of growth family member 4	0.823	2.65	Up
920	CD4	CD4 molecule	0.609	2.863	Up
10233	LRRC23	leucine rich repeat containing 23	1.035	1.319	Up
9746	CLSTN3	calsyntenin 3	1.16	6.49	Up
55810	FOXJ2	forkhead box J2	0.509	1.686	Up
144571	A2M-AS1	A2M antisense RNA 1	3.365	2.319	Up
2	A2M	alpha-2-macroglobulin	3.595	8.631	Up
5858	PZP	PZP alpha-2-macroglobulin like	2.072	1.563	Up
3820	KLRB1	killer cell lectin like receptor B1	1.302	3.707	Up
1.08E+08	LOC107987174		1.238	3.014	Up
374443	LOC374443	C-type lectin domain family 2 member D pseudogene	0.756	5.988	Up
1.05E+08	LINC02390	long intergenic non-protein coding RNA 2390	1.6	3.092	Up
51348	KLRF1	killer cell lectin like receptor F1	1.466	1.357	Up
9976	CLEC2B	C-type lectin domain family 2 member B	0.879	2.669	Up
4973	OLR1	oxidized low density lipoprotein receptor 1	2.568	2.239	Up
118426	BORCS5	BLOC-1 related complex subunit 5	0.419	1.49	Up
1.08E+08	LOC107984485		1.233	4.428	Up
80824	DUSP16	dual specificity phosphatase 16	0.968	2.561	Up
2842	GPR19	G protein-coupled receptor 19	0.828	4.621	Up
1027	CDKN1B	cyclin dependent kinase inhibitor 1B	0.773	3.706	Up

1.05E+08	LOC105369663	uncharacterized LOC105369663	0.745	2.668	Up
50865	HEBP1	heme binding protein 1	0.714	2.948	Up
79887	PLBD1	phospholipase B domain containing 1	1.741	1.455	Up
1.05E+08	LOC105369669	uncharacterized LOC105369669	1.519	1.887	Up
121506	ERP27	endoplasmic reticulum protein 27	1.274	3.903	Up
397	ARHGDIB	Rho GDP dissociation inhibitor beta	0.719	1.612	Up
5800	PTPRO	protein tyrosine phosphatase receptor type O	1.886	6.265	Up
4257	MGST1	microsomal glutathione S-transferase 1	1.391	1.688	Up
6489	ST8SIA1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1	0.662	1.993	Up
9847	C2CD5	C2 calcium dependent domain containing 5	0.573	2.152	Up
645177	LOC645177	replaced by ID 4033	2.208	1.763	Up
4033	IRAG2	inositol 1,4,5-triphosphate receptor associated 2	1.532	3.886	Up
144363	ETFRF1	electron transfer flavoprotein regulatory factor 1	0.671	1.542	Up
65981	CAPRIN2	caprin family member 2	0.915	1.734	Up
114134	SLC2A13	solute carrier family 2 member 13	0.731	3.355	Up
120892	LRRK2	leucine rich repeat kinase 2	3.485	1.575	Up
51135	IRAK4	interleukin 1 receptor associated kinase 4	0.618	3.237	Up
51054	PLEKHA8P1	pleckstrin homology domain containing A8 pseudogene 1	0.923	2.655	Up
196527	ANO6	anoctamin 6	0.533	2.918	Up
140461	ASB8	ankyrin repeat and SOCS box containing 8	0.41	2.096	Up
85478	CCDC65	coiled-coil domain containing 65	1.88	7.004	Up
7471	WNT1	Wnt family member 1	1.019	1.353	Up
55716	LMBR1L	limb development membrane protein 1 like	0.446	2.446	Up
57609	DIP2B	disco interacting protein 2 homolog B	0.316	1.475	Up
25840	METTL7A	methyltransferase like 7A	1.032	1.793	Up
25875	LETMD1	LETM1 domain containing 1	1.149	7.341	Up
5463	POU6F1	POU class 6 homeobox 1	0.914	3.364	Up
57228	SMAGP	small cell adhesion glycoprotein	1.157	4.032	Up
51411	BIN2	bridging integrator 2	0.798	1.68	Up
1990	CELA1	chymotrypsin like elastase 1	3.053	3.542	Up
140807	KRT72	keratin 72	3.955	9.345	Up
319101	KRT73	keratin 73	3.925	18.281	Up
1E+08	KRT73-AS1	KRT73 antisense RNA 1	4.555	22.035	Up
1.05E+08	LOC105369772	replaced by ID 319101	3.262	9.46	Up
3849	KRT2	keratin 2	4.838	7.511	Up
1975	EIF4B	eukaryotic translation initiation factor 4B	0.602	2.446	Up
5094	PCBP2	poly(rC) binding protein 2	0.498	1.513	Up
1.02E+08	PCBP2-OT1	PCBP2 overlapping transcript 1	0.635	2.232	Up
57658	CALCOCO1	calcium binding and coiled-coil domain 1	1.374	14.971	Up
4778	NFE2	nuclear factor, erythroid 2	1.072	1.315	Up
1.03E+08	GPR84-AS1	GPR84, ZNF385A, ITGA5 and GTSF1 antisense RNA 1	1.392	2.396	Up
25946	ZNF385A	zinc finger protein 385A	1.714	4.356	Up
3678	ITGA5	integrin subunit alpha 5	1.454	3.58	Up
1.08E+08	LOC107984515	uncharacterized LOC107984515	1.587	2.564	Up

440104	TMEM198B	transmembrane protein 198B (pseudogene)	0.78	2.216	Up
4327	MMP19	matrix metallopeptidase 19	1.805	3.23	Up
1606	DGKA	diacylglycerol kinase alpha	0.832	5.244	Up
5869	RAB5B	RAB5B, member RAS oncogene family	0.509	3.073	Up
6821	SUOX	sulfite oxidase	0.556	3.085	Up
2065	ERBB3	erb-b2 receptor tyrosine kinase 3	2.058	1.671	Up
9924	PAN2	poly(A) specific ribonuclease subunit PAN2	0.983	5.18	Up
27165	GLS2	glutaminase 2	0.87	1.708	Up
8608	RDH16	retinol dehydrogenase 16	1.799	1.557	Up
4035	LRP1	LDL receptor related protein 1	2.174	8.605	Up
22864	R3HDM2	R3H domain containing 2	1.177	2.229	Up
2735	GLI1	GLI family zinc finger 1	0.906	2.513	Up
64333	ARHGAP9	Rho GTPase activating protein 9	1.07	6.508	Up
116986	AGAP2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	0.683	3.424	Up
1E+08	AGAP2-AS1	AGAP2 antisense RNA 1	0.749	3.504	Up
92979	MARCHF9	membrane associated ring-CH-type finger 9	0.711	4.642	Up
10106	CTDSP2	CTD small phosphatase 2	0.927	2.271	Up
338811	TAFA2	TAFA chemokine like family member 2	2.529	5.238	Up
57460	PPM1H	protein phosphatase, Mg2+/Mn2+ dependent 1H	2.241	2.574	Up
1.13E+08	MIR10527	microRNA 10527	1.06	2.626	Up
144577	KICS2	KICSTOR subunit 2	0.523	1.858	Up
283349	RASSF3	Ras association domain family member 3	1.106	5.968	Up
1.04E+08	LLPH-DT	LLPH divergent transcript	1.549	1.549	Up
8445	DYRK2	dual specificity tyrosine phosphorylation regulated kinase 2	1.582	17.317	Up
1.05E+08	LOC105369816	uncharacterized LOC105369816	1.695	3.685	Up
56890	MDM1	Mdm1 nuclear protein	0.612	2.978	Up
55508	SLC35E3	solute carrier family 35 member E3	0.725	3.442	Up
4069	LYZ	lysozyme	4.163	3.878	Up
1.02E+08	PRANCR	progenitor renewal associated non-coding RNA	0.942	1.753	Up
27345	KCNMB4	potassium calcium-activated channel subfamily M regulatory beta subunit 4	1.487	2.803	Up
64786	TBC1D15	TBC1 domain family member 15	0.967	7.763	Up
79738	BBS10	Bardet-Biedl syndrome 10	0.505	2.047	Up
114882	OSBPL8	oxysterol binding protein like 8	0.86	3.112	Up
490	ATP2B1	ATPase plasma membrane Ca2+ transporting 1	0.654	2.685	Up
694	BTG1	BTG anti-proliferation factor 1	0.679	1.414	Up
1.02E+08	BTG1-DT	BTG1 divergent transcript	1.522	2.925	Up
8411	EEA1	early endosome antigen 1	0.862	2.765	Up
57458	TMCC3	transmembrane and coiled-coil domain family 3	1.745	1.626	Up
55785	FGD6	FYVE, RhoGEF and PH domain containing 6	1.237	2.434	Up
59277	NTN4	netrin 4	2.389	3.642	Up
79158	GNPTAB	N-acetylglucosamine-1-phosphate transferase subunits alpha and beta	0.811	3.658	Up
374470	C12orf42	chromosome 12 open reading frame 42	2.187	5.337	Up
493861	EID3	EP300 interacting inhibitor of differentiation 3	0.672	1.534	Up

55198	APPL2	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2	0.845	3.327	Up
255394	TCP11L2	t-complex 11 like 2	2.071	10.912	Up
121551	ABTB3	ankyrin repeat and BTB domain containing 3	2.248	7.646	Up
1240	CMKLR1	chemerin chemokine-like receptor 1	3.648	2.889	Up
338773	TMEM119	transmembrane protein 119	2.323	3.004	Up
6404	SELPLG	selectin P ligand	1.622	26.439	Up
84749	USP30	ubiquitin specific peptidase 30	0.741	3.479	Up
32	ACACB	acetyl-CoA carboxylase beta	2.264	5.529	Up
79600	TCTN1	tectonic family member 1	1.332	1.807	Up
84329	HVCN1	hydrogen voltage gated channel 1	2.279	3.202	Up
144717	PHETA1	PH domain containing endocytic trafficking adaptor 1	0.874	1.855	Up
51275	MAPKAPK5-AS1	MAPKAPK5 antisense RNA 1	0.99	6.444	Up
89894	TMEM116	transmembrane protein 116	1.119	5.32	Up
10961	ERP29	endoplasmic reticulum protein 29	0.785	2.215	Up
53373	TPCN1	two pore segment channel 1	0.89	3.28	Up
80024	SLC8B1	solute carrier family 8 member B1	1.531	12.614	Up
10993	SDS	serine dehydratase	4.559	5.302	Up
4842	NOS1	nitric oxide synthase 1	5.575	2.603	Up
51347	TAOK3	TAO kinase 3	0.566	2.713	Up
1.01E+08	PXN-AS1	PXN antisense RNA 1	1.293	8.219	Up
5829	PXN	paxillin	1.313	10.904	Up
84747	UNC119B	unc-119 lipid binding chaperone B	0.723	6.368	Up
283385	MORN3	MORN repeat containing 3	2.676	4.608	Up
338799	LINC01089	long intergenic non-protein coding RNA 1089	1.505	2.162	Up
23067	SETD1B	SET domain containing 1B, histone lysine methyltransferase	1.063	3.76	Up
144406	CFAP251	cilia and flagella associated protein 251	1.781	1.419	Up
22877	MLXIP	MLX interacting protein	0.683	1.589	Up
9026	HIP1R	huntingtin interacting protein 1 related	0.538	1.321	Up
79676	OGFOD2	2-oxoglutarate and iron dependent oxygenase domain containing 2	0.553	1.9	Up
57605	PITPNM2	phosphatidylinositol transfer protein membrane associated 2	1.057	2.762	Up
79867	TCTN2	tectonic family member 2	0.93	1.762	Up
8408	ULK1	unc-51 like autophagy activating kinase 1	0.595	1.742	Up
1.01E+08	LINC02361	long intergenic non-protein coding RNA 2361	1.735	9.195	Up
1E+08	ZNF605	zinc finger protein 605	0.654	1.548	Up
7574	ZNF26	zinc finger protein 26	0.642	5.665	Up
7637	ZNF84	zinc finger protein 84	0.555	3.415	Up
7556	ZNF10	zinc finger protein 10	0.766	3.092	Up
143	PARP4	poly(ADP-ribose) polymerase family member 4	0.669	4.066	Up
5042	PABPC3	poly(A) binding protein cytoplasmic 3	1.077	3.623	Up
219402	MTIF3	mitochondrial translational initiation factor 3	0.61	3.698	Up
283537	SLC46A3	solute carrier family 46 member 3	1.041	4.053	Up
1.03E+08	LOC102723345	uncharacterized LOC102723345	2.898	3.059	Up
440131	LINC00544	long intergenic non-protein coding RNA 544	4.659	2.004	Up

1E+08	LINC00426	long intergenic non-protein coding RNA 426	1.964	7.154	Up
10129	FRY	FRY microtubule binding protein	1.336	10.332	Up
55578	SUPT20H	SPT20 homolog, SAGA complex component	0.344	1.478	Up
387921	NHLRC3	NHL repeat containing 3	0.69	2.228	Up
57511	COG6	component of oligomeric golgi complex 6	0.432	1.453	Up
2308	FOXO1	forkhead box O1	0.931	2.461	Up
1.01E+08	TPTE2P5	TPTE2 pseudogene 5	0.701	1.474	Up
89890	KBTBD6	kelch repeat and BTB domain containing 6	0.72	2.369	Up
84078	KBTBD7	kelch repeat and BTB domain containing 7	0.591	1.564	Up
79612	NAA16	N-alpha-acetyltransferase 16, NatA auxiliary subunit	0.835	2.243	Up
28984	RGCC	regulator of cell cycle	1.064	2.239	Up
8848	TSC22D1	TSC22 domain family member 1	1.278	13.63	Up
641467	TSC22D1-AS1	TSC22D1 antisense RNA 1	1.384	2.573	Up
1E+08	TPT1-AS1	TPT1 antisense RNA 1	0.555	1.716	Up
283514	SIAH3	siah E3 ubiquitin protein ligase family member 3	2.111	1.435	Up
9445	ITM2B	integral membrane protein 2B	0.834	1.961	Up
10161	LPAR6	lysophosphatidic acid receptor 6	1.186	4.282	Up
83852	SETDB2	SET domain bifurcated histone lysine methyltransferase 2	0.679	3.878	Up
1.01E+08	INTS6-AS1	INTS6 antisense RNA 1	1.763	2.379	Up
115825	WDFY2	WD repeat and FYVE domain containing 2	0.545	2.785	Up
1.01E+08	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5	1.155	2.057	Up
26586	CKAP2	cytoskeleton associated protein 2	0.673	3.475	Up
81550	TDRD3	tudor domain containing 3	0.627	2.276	Up
688	KLF5	KLF transcription factor 5	0.94	2.124	Up
11278	KLF12	KLF transcription factor 12	0.599	2.451	Up
1.01E+08	LINC00402	long intergenic non-protein coding RNA 402	2.637	8.208	Up
1.05E+08	LOC105370259	uncharacterized LOC105370259	3.274	10.237	Up
4008	LMO7	LIM domain 7	0.796	2.16	Up
115207	KCTD12	potassium channel tetramerization domain containing 12	1.255	9.569	Up
26224	FBXL3	F-box and leucine rich repeat protein 3	0.514	1.35	Up
10253	SPRY2	sprouty RTK signaling antagonist 2	1.317	1.734	Up
26050	SLITRK5	SLIT and NTRK like family member 5	3.332	2.861	Up
1638	DCT	dopachrome tautomerase	2.077	1.612	Up
1E+08	DNAJC3-DT	DNAJC3 divergent transcript	0.993	1.535	Up
1.01E+08	DOCK9-DT	DOCK9 divergent transcript	1.093	2.966	Up
1.01E+08	BIVM-ERCC5	BIVM-ERCC5 readthrough	0.932	5.883	Up
2073	ERCC5	ERCC excision repair 5, endonuclease	0.974	5.701	Up
8660	IRS2	insulin receptor substrate 2	1.426	8.182	Up
55647	RAB20	RAB20, member RAS oncogene family	1.122	2.971	Up
55739	NAXD	NAD(P)HX dehydratase	0.361	1.941	Up
3621	ING1	inhibitor of growth family member 1	0.933	10.073	Up

55608	ANKRD10	ankyrin repeat domain 10	0.591	1.487	Up
8874	ARHGEF7	Rho guanine nucleotide exchange factor 7	0.632	2.043	Up
1E+08	MCF2L-AS1	MCF2L antisense RNA 1	1.272	2.149	Up
1.01E+08	SWINGN	SWI/SNF complex interacting GAS6 enhancer non-coding RNA	3.333	5.189	Up
1.05E+08	LOC105377806		2.966	5.694	Up
1.01E+08	C13orf46	chromosome 13 open reading frame 46	3.279	6.311	Up
22821	RASA3	RAS p21 protein activator 3	2.412	25.505	Up
1.02E+08	CFAP97D2	CFAP97 domain containing 2	3.413	1.685	Up
57820	CCNB1IP1	cyclin B1 interacting protein 1	0.681	1.312	Up
6039	RNASE6	ribonuclease A family member k6	2.865	8.395	Up
6035	RNASE1	ribonuclease A family member 1, pancreatic	5.54	14.493	Up
57447	NDRG2	NDRG family member 2	0.912	2.973	Up
6297	SALL2	spalt like transcription factor 2	0.99	3.137	Up
9056	SLC7A7	solute carrier family 7 member 7	1.301	1.663	Up
26020	LRP10	LDL receptor related protein 10	0.363	3.037	Up
161253	REM2	RRAD and GEM like GTPase 2	1.972	1.834	Up
60686	C14orf93	chromosome 14 open reading frame 93	0.864	2.459	Up
122706	PSMB11	proteasome subunit beta 11	5.704	2.036	Up
1053	CEBPE	CCAAT enhancer binding protein epsilon	3.711	2.826	Up
90673	PPP1R3E	protein phosphatase 1 regulatory subunit 3E	1.316	3.872	Up
51310	SLC22A17	solute carrier family 22 member 17	1.522	4.901	Up
55449	DHRS4-AS1	DHRS4 antisense RNA 1	0.779	2.946	Up
51292	GMPR2	guanosine monophosphate reductase 2	0.593	2.167	Up
115817	DHRS1	dehydrogenase/reductase 1	0.623	1.877	Up
56413	LTB4R2	leukotriene B4 receptor 2	0.952	1.384	Up
1241	LTB4R	leukotriene B4 receptor	1.069	1.87	Up
55632	G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.312	1.611	Up
394	ARHGAP5	Rho GTPase activating protein 5	0.35	1.36	Up
84837	ARHGAP5-AS1	ARHGAP5 antisense RNA 1 (head to head)	2.403	1.567	Up
1.01E+08	SRP54-AS1	SRP54 antisense RNA 1	0.929	1.923	Up
280655	IGBP1P1	immunoglobulin (CD79A) binding protein 1 pseudogene 1	1.306	2.194	Up
122525	C14orf28	chromosome 14 open reading frame 28	0.623	1.605	Up
23116	TOGARAM1	TOG array regulator of axonemal microtubules 1	0.646	1.308	Up
122773	KLHDC1	kelch domain containing 1	1.139	2.291	Up
51062	ATL1	atlastin GTPase 1	1.174	1.955	Up
5836	PYGL	glycogen phosphorylase L	1.082	1.447	Up
114088	TRIM9	tripartite motif containing 9	1.355	1.881	Up
57544	TXNDC16	thioredoxin domain containing 16	0.43	1.438	Up
22863	ATG14	autophagy related 14	0.717	2.3	Up
57161	PELI2	pellino E3 ubiquitin protein ligase family member 2	1.209	5.124	Up
54916	TMEM260	transmembrane protein 260	0.967	4.638	Up
5926	ARID4A	AT-rich interaction domain 4A	0.928	1.819	Up
9786	KIAA0586	KIAA0586	0.969	6.282	Up

23002	DAAM1	dishevelled associated activator of morphogenesis 1	0.767	2.568	Up
5583	PRKCH	protein kinase C eta	1.034	5.356	Up
7597	ZBTB25	zinc finger and BTB domain containing 25	0.725	2.076	Up
26030	PLEKHG3	pleckstrin homology and RhoGEF domain containing G3	1.193	4.036	Up
6710	SPTB	spectrin beta, erythrocytic	1.497	2.002	Up
645431	FUT8-AS1	FUT8 antisense RNA 1	1.155	2.152	Up
87	ACTN1	actinin alpha 1	1.261	5.51	Up
8816	DCAF5	DDB1 and CUL4 associated factor 5	0.483	3.894	Up
23508	TTC9	tetratricopeptide repeat domain 9	1.036	2.346	Up
89932	PAPLN	papilin, proteoglycan like sulfated glycoprotein	2.72	1.637	Up
9240	PNMA1	PNMA family member 1	0.495	2.054	Up
1.01E+08	MIDEAS-AS1	MIDEAS antisense RNA 1	2.518	3.287	Up
80127	BBOF1	basal body orientation factor 1	1.1	5.538	Up
4329	ALDH6A1	aldehyde dehydrogenase 6 family member A1	1.267	9.236	Up
10577	NPC2	NPC intracellular cholesterol transporter 2	0.659	1.706	Up
283571	PROX2	prospero homeobox 2	1.6	5.045	Up
91754	NEK9	NIMA related kinase 9	0.447	3.275	Up
1.01E+08	VASH1-AS1	VASH1 antisense RNA 1	0.846	3.469	Up
23357	ANGEL1	angel homolog 1	0.514	1.856	Up
1.08E+08	LOC107984638	arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2	0.525	1.59	Up
145508	CEP128	centrosomal protein 128	0.899	1.882	Up
23768	FLRT2	fibronectin leucine rich transmembrane protein 2	3.067	2.69	Up
123036	TC2N	tandem C2 domains, nuclear	1.167	4.643	Up
10516	FBLN5	fibulin 5	1.662	2.135	Up
79890	RIN3	Ras and Rab interactor 3	1.043	3.21	Up
64112	MOAP1	modulator of apoptosis 1	0.512	1.926	Up
56967	C14orf132	chromosome 14 open reading frame 132	2.464	7.356	Up
64919	BCL11B	BCL11 transcription factor B	0.707	2.294	Up
51466	EVL	Enah/Vasp-like	0.674	3.638	Up
123099	DEGS2	delta 4-desaturase, sphingolipid 2	0.75	3.538	Up
123096	SLC25A29	solute carrier family 25 member 29	0.342	1.38	Up
1.08E+08	LOC107984698		1.726	2.407	Up
1.05E+08	LINC02320	long intergenic non-protein coding RNA 2320	1.827	2.461	Up
145200	LINC00239	long intergenic non-protein coding RNA 239	1.592	5.444	Up
5527	PPP2R5C	protein phosphatase 2 regulatory subunit B'gamma	0.893	7.146	Up
1.08E+08	LOC107984658	uncharacterized LOC107984658	1.142	7.563	Up
1.08E+08	LOC107984659		1.576	15.791	Up
81693	AMN	amnion associated transmembrane protein	1.156	3.245	Up
1E+08	ZBTB42	zinc finger and BTB domain containing 42	0.533	3.103	Up
122616	CLBA1	clathrin binding box of aftiphilin containing 1	1.124	1.31	Up
1397	CRIP2	cysteine rich protein 2	2.65	7.397	Up
1396	CRIP1	cysteine rich protein 1	1.021	3.118	Up

1.03E+08	LOC102724760	immunoglobulin heavy variable 1/OR15-1 pseudogene	2.244	4.247	Up
388077	IGHV1OR15-1	immunoglobulin heavy variable 1/OR15-1 (non-functional)	2.178	4.044	Up
339005	WHAMMP3	WHAMM pseudogene 3	1.633	2.446	Up
1.04E+08	SNHG14	small nucleolar RNA host gene 14	0.524	2.88	Up
1.01E+08	PWAR6	Prader Willi/Angelman region RNA 6	1.373	2.966	Up
3653	IPW	imprinted in Prader-Willi syndrome	1.236	2.54	Up
57194	ATP10A	ATPase phospholipid transporting 10A (putative)	0.859	3.489	Up
8924	HERC2	HECT and RLD domain containing E3 ubiquitin protein ligase 2	0.733	1.715	Up
653720	GOLGA8M	golgin A8 family member M	1.164	1.309	Up
440253	WHAMMP2	WHAMM pseudogene 2	1.558	2.913	Up
321	APBA2	amyloid beta precursor protein binding family A member 2	2.262	14.074	Up
1E+08	WHAMMP4	WHAMM pseudogene 4	1.302	3.65	Up
1.03E+08	ARHGAP11B-DT	ARHGAP11B divergent transcript	1.555	2.616	Up
1.05E+08	LOC105370939	uncharacterized LOC105370939	1.386	1.357	Up
1E+08	WHAMMP1	WHAMM pseudogene 1	1.186	1.419	Up
9990	SLC12A6	solute carrier family 12 member 6	0.579	1.544	Up
254531	LPCAT4	lysophosphatidylcholine acyltransferase 4	1.17	4.701	Up
7057	THBS1	thrombospondin 1	2.459	5.194	Up
1E+08	SRP14-DT	SRP14 divergent transcript	1.019	3.303	Up
84936	ZFYVE19	zinc finger FYVE-type containing 19	0.474	1.462	Up
8681	JMJD7-PLA2G4B	JMJD7-PLA2G4B readthrough	0.991	1.825	Up
1E+08	JMJD7	jumonji domain containing 7	0.687	2.992	Up
1E+08	PLA2G4B	phospholipase A2 group IVB	1.373	1.421	Up
23339	VPS39	VPS39 subunit of HOPS complex	0.552	2.359	Up
2595	GANC	glucosidase alpha, neutral C	0.493	1.854	Up
146059	CDAN1	codanin 1	0.865	3.558	Up
146057	TTBK2	tau tubulin kinase 2	0.671	1.928	Up
23582	CCNDBP1	cyclin D1 binding protein 1	0.404	1.401	Up
113201	GOLM2	golgi membrane protein 2	0.588	4.058	Up
645212	EIF3J-DT	EIF3J divergent transcript	0.938	2.704	Up
9728	SECISBP2L	SECIS binding protein 2 like	0.457	1.59	Up
196951	FAM227B	family with sequence similarity 227 member B	0.662	2.214	Up
79895	ATP8B4	ATPase phospholipid transporting 8B4 (putative)	2.231	5.692	Up
55056	GABPB1-IT1	GABPB1 intronic transcript	1.024	4.225	Up
1E+08	GABPB1-AS1	GABPB1 antisense RNA 1	0.622	2.358	Up
10681	GNB5	G protein subunit beta 5	0.871	8.065	Up
1E+08	CERNA1	competing endogenous lncRNA 1 for miR-4707-5p and miR-4767	1.754	1.979	Up
56204	ATOSA	atos homolog A	1.448	7.588	Up
1.01E+08	DNAAF4-CCPG1	DNAAF4-CCPG1 readthrough (NMD candidate)	0.704	1.702	Up
9236	CCPG1	cell cycle progression 1	0.7	1.747	Up
145781	GCOM1	GCOM1, MYZAP-POLR2M combined locus	0.599	2.041	Up

81488	POLR2M	RNA polymerase II subunit M	0.622	2.512	Up
102	ADAM10	ADAM metallopeptidase domain 10	0.786	3.319	Up
54629	MINDY2	MINDY lysine 48 deubiquitinase 2	0.579	1.833	Up
1.02E+08	RORA-AS1	RORA antisense RNA 1	0.839	2.129	Up
7168	TPM1	tropomyosin 1	0.674	1.466	Up
9960	USP3	ubiquitin specific peptidase 3	1.182	11.36	Up
1E+08	USP3-AS1	USP3 antisense RNA 1	0.928	4.436	Up
8925	HERC1	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1	0.951	3.029	Up
23604	DAPK2	death associated protein kinase 2	1.875	2.872	Up
1.12E+08	LOC112268147		0.743	2.364	Up
54956	PARP16	poly(ADP-ribose) polymerase family member 16	0.764	3.699	Up
9187	SLC24A1	solute carrier family 24 member 1	0.535	1.365	Up
145853	C15orf61	chromosome 15 open reading frame 61	0.645	2.124	Up
5607	MAP2K5	mitogen-activated protein kinase kinase 5	0.874	5.558	Up
8554	PIAS1	protein inhibitor of activated STAT 1	0.573	1.713	Up
91860	CALML4	calmodulin like 4	0.738	2.981	Up
1.05E+08	LINC02896	long intergenic non-protein coding RNA 2896	3.439	1.566	Up
1.08E+08	LOC107984781	uncharacterized LOC107984781	1.76	2.093	Up
56965	PARP6	poly(ADP-ribose) polymerase family member 6	0.913	2.854	Up
80072	HEXA-AS1	HEXA antisense RNA 1	0.938	1.326	Up
440288	UBL7-DT	UBL7 divergent transcript	0.681	1.463	Up
1198	CLK3	CDC like kinase 3	0.515	2.441	Up
4351	MPI	mannose phosphate isomerase	0.5	2.536	Up
57184	FAM219B	family with sequence similarity 219 member B	0.652	2.932	Up
23102	TBC1D2B	TBC1 domain family member 2B	0.716	2.023	Up
123688	HYKK	hydroxylysine kinase	1.512	2.745	Up
3603	IL16	interleukin 16	0.866	3.878	Up
80765	STARD5	StAR related lipid transfer domain containing 5	1.232	4.796	Up
390660	ADAMTS7P1	ADAMTS7 pseudogene 1	2.25	1.404	Up
123720	WHAMM	WASP homolog associated with actin, golgi membranes and microtubules	0.707	1.314	Up
123207	C15orf40	chromosome 15 open reading frame 40	0.32	1.452	Up
54993	ZSCAN2	zinc finger and SCAN domain containing 2	0.747	3.878	Up
54581	SCAND2P	SCAN domain containing 2 pseudogene	0.959	1.699	Up
55070	DET1	DET1 partner of COP1 E3 ubiquitin ligase	0.519	1.324	Up
4240	MFGE8	milk fat globule EGF and factor V/VIII domain containing	2.428	9.542	Up
348110	ARPIN	actin related protein 2/3 complex inhibitor	2.812	1.5	Up
10509	SEMA4B	semaphorin 4B	1.019	5.149	Up
64784	CRTC3	CREB regulated transcription coactivator 3	0.9	6.824	Up
1.02E+08	CRTC3-AS1	CRTC3 antisense RNA 1	0.737	1.34	Up
1.01E+08	CHASERR	CHD2 adjacent suppressive regulatory RNA	0.778	1.858	Up
440311	LOC440311	NOP53 ribosome biogenesis factor pseudogene	0.687	1.513	Up
3480	IGF1R	insulin like growth factor 1 receptor	0.905	6.903	Up

64927	TTC23	tetratricopeptide repeat domain 23	2.022	1.945	Up
170691	ADAMTS17	ADAM metallopeptidase with thrombospondin type 1 motif 17	1.507	1.659	Up
123283	TARS3	threonyl-tRNA synthetase 3	0.915	4.252	Up
1E+08	LOC100134368	uncharacterized LOC100134368	4.208	5.688	Up
1.05E+08	LOC105371036	replaced by ID 58986	2.813	3.58	Up
283948	NHLRC4	NHL repeat containing 4	1.441	2.279	Up
57799	RAB40C	RAB40C, member RAS oncogene family	0.619	2.328	Up
1E+08	LOC100287175	uncharacterized LOC100287175	1.866	2.121	Up
9028	RHBDL1	rhomboid like 1	2.476	1.498	Up
146330	FBXL16	F-box and leucine rich repeat protein 16	1.691	24.428	Up
30812	SOX8	SRY-box transcription factor 8	0.965	1.411	Up
1.08E+08	LOC107984898		2.205	9.983	Up
84572	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma	0.459	1.411	Up
9742	IFT140	intraflagellar transport 140	0.965	2.276	Up
79652	TMEM204	transmembrane protein 204	2.337	20.1	Up
90864	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3	0.854	4.22	Up
5310	PKD1	polycystin 1, transient receptor potential channel interacting	0.869	1.365	Up
1.05E+08	PKD1-AS1	PKD1 antisense RNA 1	1.152	1.384	Up
1877	E4F1	E4F transcription factor 1	0.521	1.35	Up
51005	AMDHD2	amidohydrolase domain containing 2	0.756	2.636	Up
752014	CEMP1	cementum protein 1	1.229	2.367	Up
7755	ZNF205	zinc finger protein 205	1.603	1.472	Up
1.01E+08	ZNF213-AS1	ZNF213 antisense RNA 1 (head to head)	0.953	1.718	Up
283876	LINC00921	long intergenic non-protein coding RNA 921	1.496	5.578	Up
91151	TIGD7	tigger transposable element derived 7	0.896	2.517	Up
7727	ZNF174	zinc finger protein 174	0.778	6.899	Up
23059	CLUAP1	clusterin associated protein 1	0.773	4.229	Up
197358	NLRC3	NLR family CARD domain containing 3	1.073	3.867	Up
1.02E+08	LOC101929732	uncharacterized LOC101929732	1.458	2.639	Up
1.01E+08	LINC01569	long intergenic non-protein coding RNA 1569	1.088	1.82	Up
7023	TFAP4	transcription factor AP-4	1.073	8.205	Up
26048	ZNF500	zinc finger protein 500	0.94	2.966	Up
51172	NAGPA	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase	0.611	3.267	Up
25880	TMEM186	transmembrane protein 186	0.49	1.324	Up
1E+08	LOC100130283	uncharacterized LOC100130283	0.667	1.534	Up
23589	CARHSP1	calcium regulated heat stable protein 1	1.035	3.212	Up
80063	ATF7IP2	activating transcription factor 7 interacting protein 2	0.756	1.879	Up
28955	DEXI	Dexi homolog	0.539	2.129	Up

9516	LITAF	lipopolysaccharide induced TNF factor	0.596	2.881	Up
92017	SNX29	sorting nexin 29	0.626	2.873	Up
23042	PDXDC1	pyridoxal dependent decarboxylase domain containing 1	0.359	2.439	Up
9665	MARF1	meiosis regulator and mRNA stability factor 1	0.817	4.611	Up
64131	XYLT1	xylosyltransferase 1	1.997	4.956	Up
1.03E+08	LOC102723692	uncharacterized LOC102723692	1.604	2.805	Up
6296	ACSM3	acyl-CoA synthetase medium chain family member 3	0.956	1.518	Up
57146	LDAF1	lipid droplet assembly factor 1	1.483	5.705	Up
10261	IGSF6	immunoglobulin superfamily member 6	1.484	1.451	Up
1039	CDR2	cerebellar degeneration related protein 2	0.656	3.088	Up
23062	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.407	1.765	Up
388228	SBK1	SH3 domain binding kinase 1	1.403	5.818	Up
112869	SGF29	SAGA complex associated factor 29	0.896	2.824	Up
6817	SULT1A1	sulfotransferase family 1A member 1	0.765	1.811	Up
25970	SH2B1	SH2B adaptor protein 1	0.63	1.767	Up
1.05E+08	LOC105371168	uncharacterized LOC105371168	2.104	1.7	Up
6693	SPN	sialophorin	0.696	1.395	Up
283897	C16orf54	chromosome 16 open reading frame 54	1.406	14.262	Up
3835	KIF22	kinesin family member 22	0.346	1.334	Up
124446	TMEM219	transmembrane protein 219	0.829	3.172	Up
83719	YPEL3	yippee like 3	1.572	15.706	Up
1.08E+08	ZNF747-DT	ZNF747 divergent transcript	1.016	1.672	Up
146542	ZNF688	zinc finger protein 688	0.845	3.309	Up
93129	ORAI3	ORAI calcium release-activated calcium modulator 3	1.183	4.665	Up
80270	HSD3B7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	2.248	2.608	Up
9726	ZNF646	zinc finger protein 646	0.511	1.35	Up
29108	PYCARD	PYD and CARD domain containing	1.167	4.106	Up
1.01E+08	PYCARD-AS1	PYCARD antisense RNA 1	1.027	2.863	Up
1.12E+08	LOC112268166		0.381	1.42	Up
113	ADCY7	adenylate cyclase 7	0.885	1.503	Up
80205	CHD9	chromodomain helicase DNA binding protein 9	0.752	1.696	Up
5934	RBL2	RB transcriptional corepressor like 2	1.29	6.466	Up
64400	AKTIP	AKT interacting protein	0.742	2.341	Up
54947	LPCAT2	lysophosphatidylcholine acyltransferase 2	1.921	3.751	Up
1066	CES1	carboxylesterase 1	1.253	1.587	Up
2775	GNAO1	G protein subunit alpha o1	2.304	3.793	Up
267	AMFR	autocrine motility factor receptor	0.654	4.094	Up
583	BBS2	Bardet-Biedl syndrome 2	1.125	3.755	Up
51090	PLLP	plasmolipin	2.02	1.367	Up
1.08E+08	LOC107984852	uncharacterized LOC107984852	2.195	1.53	Up
57567	ZNF319	zinc finger protein 319	0.677	2.378	Up

1459	CSNK2A2	casein kinase 2 alpha 2	0.342	1.481	Up
1.01E+08	LINC00920	long intergenic non-protein coding RNA 920	2.108	4.256	Up
8824	CES2	carboxylesterase 2	0.577	2.456	Up
1.02E+08	ATP6V0D1-DT	ATP6V0D1 divergent transcript	0.968	1.838	Up
388284	C16orf86	chromosome 16 open reading frame 86	1.811	3.375	Up
57215	THAP11	THAP domain containing 11	0.703	2.759	Up
64174	DPEP2	dipeptidase 2	2.949	43.809	Up
146198	ZFP90	ZFP90 zinc finger protein	0.899	6.063	Up
6645	SNTB2	syntrophin beta 2	1.126	2.438	Up
283970	PDXDC2P-NPIPB14P	PDXDC2P-NPIPB14P readthrough	0.815	2.01	Up
55066	PDPR	pyruvate dehydrogenase phosphatase regulatory subunit	0.592	1.314	Up
197258	FCSK	fucose kinase	0.563	1.576	Up
7567	ZNF19	zinc finger protein 19	1.068	1.599	Up
55565	ZNF821	zinc finger protein 821	0.638	1.396	Up
54957	TXNL4B	thioredoxin like 4B	0.342	2.04	Up
2734	GLG1	golgi glycoprotein 1	1.023	11.018	Up
283927	NUDT7	nudix hydrolase 7	0.992	2.434	Up
80790	CMIP	c-Maf inducing protein	0.787	2.158	Up
5336	PLCG2	phospholipase C gamma 2	1.009	1.369	Up
23417	MLYCD	malonyl-CoA decarboxylase	0.569	3.303	Up
57707	MEAK7	MTOR associated protein, eak-7 homolog	0.686	1.982	Up
79786	KLHL36	kelch like family member 36	0.51	2.112	Up
9764	KIAA0513	KIAA0513	0.748	2.523	Up
404550	C16orf74	chromosome 16 open reading frame 74	4.474	9.842	Up
64779	MTHFSD	methenyltetrahydrofolate synthetase domain containing	0.563	2.378	Up
81631	MAP1LC3B	microtubule associated protein 1 light chain 3 beta	0.385	1.58	Up
23174	ZCCHC14	zinc finger CCHC-type containing 14	1.066	4.144	Up
54971	BANP	BTG3 associated nuclear protein	0.777	2.828	Up
197187	SNAI3-AS1	SNAI3 antisense RNA 1	1.165	2.917	Up
333929	SNAI3	snail family transcriptional repressor 3	1.846	12.08	Up
115992	RNF166	ring finger protein 166	1.856	13.441	Up
863	CBFA2T3	CBFA2/RUNX1 partner transcriptional co-repressor 3	1.021	1.849	Up
197322	ACSF3	acyl-CoA synthetase family member 3	0.664	2.906	Up
1.02E+08	LOC101930112	uncharacterized LOC101930112	0.878	2.004	Up
606500	SNORD68	small nucleolar RNA, C/D box 68	0.95	1.776	Up
27132	CPNE7	copine 7	1.853	3.042	Up
92822	ZNF276	zinc finger protein 276	1.22	5.377	Up
2175	FANCA	FA complementation group A	0.706	2.35	Up
1.01E+08	RPH3AL-AS1	RPH3AL antisense RNA 1	4.408	1.913	Up
51031	GLOD4	glyoxalase domain containing 4	0.577	2.458	Up
51763	INPP5K	inositol polyphosphate-5-phosphatase K	0.525	2.31	Up
1E+08	PITPNA-AS1	PITPNA antisense RNA 1	1.214	2.753	Up
124997	WDR81	WD repeat domain 81	0.824	3.496	Up
5345	SERPINF2	serpin family F member 2	2.154	1.706	Up

9905	SGSM2	small G protein signaling modulator 2	0.783	1.84	Up
4335	MNT	MAX network transcriptional repressor	1.001	3.483	Up
23108	RAP1GAP2	RAP1 GTPase activating protein 2	2.106	5.529	Up
7442	TRPV1	transient receptor potential cation channel subfamily V member 1	1.641	1.991	Up
3682	ITGAE	integrin subunit alpha E	0.804	3.237	Up
201305	SPNS3	SPNS lysolipid transporter 3, sphingosine-1-phosphate (putative)	1.028	1.775	Up
409	ARRB2	arrestin beta 2	0.808	8.282	Up
58191	CXCL16	C-X-C motif chemokine ligand 16	1.189	2.108	Up
284013	VMO1	vitelline membrane outer layer 1 homolog	3.812	4.525	Up
50488	MINK1	misshapen like kinase 1	0.856	4.446	Up
728392	LOC728392	uncharacterized LOC728392	1.052	2.859	Up
22861	NLRP1	NLR family pyrin domain containing 1	1.498	3.243	Up
1.01E+08	ALOX12-AS1	ALOX12 antisense RNA 1	1.32	2.965	Up
239	ALOX12	arachidonate 12-lipoxygenase, 12S type	1.095	4.932	Up
10462	CLEC10A	C-type lectin domain containing 10A	3.083	7.317	Up
433	ASGR2	asialoglycoprotein receptor 2	3.193	1.443	Up
9744	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.621	4.438	Up
8711	TNK1	tyrosine kinase non receptor 1	0.77	4.817	Up
1.01E+08	TMEM256-PLSCR3	TMEM256-PLSCR3 readthrough (NMD candidate)	0.395	1.854	Up
57048	PLSCR3	phospholipid scramblase 3	0.411	2.107	Up
57659	ZBTB4	zinc finger and BTB domain containing 4	0.618	2.877	Up
968	CD68	CD68 molecule	1.861	3.353	Up
1.01E+08	LOC100996842	uncharacterized LOC100996842	0.746	1.693	Up
112483	SAT2	spermidine/spermine N1-acetyltransferase family member 2	0.764	4.545	Up
284023	RNF227	ring finger protein 227	1.057	4.43	Up
59344	ALOXE3	arachidonate lipoxygenase 3	2.673	2.36	Up
6844	VAMP2	vesicle associated membrane protein 2	0.499	1.513	Up
84314	TMEM107	transmembrane protein 107	1.711	10.116	Up
54785	BORCS6	BLOC-1 related complex subunit 6	0.712	3.46	Up
284029	LINC00324	long intergenic non-protein coding RNA 324	1.696	6.248	Up
1E+08	TRD-GTC2-11	tRNA-Asp (anticodon GTC) 2-11	1.809	1.985	Up
80169	CTC1	CST telomere replication complex component 1	0.759	4.05	Up
1.08E+08	LOC107985063		1.493	2.944	Up
23533	PIK3R5	phosphoinositide-3-kinase regulatory subunit 5	1.089	7.123	Up
8522	GAS7	growth arrest specific 7	2.487	7.957	Up
56985	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent	1.352	6.684	Up
388335	TMEM220	transmembrane protein 220	1.537	7.442	Up
1.01E+08	MAGOH2P	mago homolog 2, pseudogene	1.641	2.293	Up
7566	ZNF18	zinc finger protein 18	0.735	3.389	Up
9955	HS3ST3A1	heparan sulfate-glucosamine 3-sulfotransferase 3A1	0.952	1.383	Up

1.01E+08	COX10-DT	COX10 divergent transcript	0.749	1.394	Up
9953	HS3ST3B1	heparan sulfate-glucosamine 3-sulfotransferase 3B1	0.879	2.784	Up
5376	PMP22	peripheral myelin protein 22	1.71	1.932	Up
136	ADORA2B	adenosine A2b receptor	1.71	2.681	Up
125150	ZSWIM7	zinc finger SWIM-type containing 7	0.544	2.918	Up
57336	ZNF287	zinc finger protein 287	0.541	2.636	Up
57547	ZNF624	zinc finger protein 624	0.851	4.463	Up
201163	FLCN	folliculin	0.576	2.216	Up
146691	TOM1L2	target of myb1 like 2 membrane trafficking protein	0.932	5.908	Up
125170	MIEF2	mitochondrial elongation factor 2	0.852	2.709	Up
140775	SMCR8	SMCR8-C9orf72 complex subunit	0.563	2	Up
125206	SLC5A10	solute carrier family 5 member 10	1.469	3.068	Up
10750	GRAP	GRB2 related adaptor protein	1.727	3.837	Up
400581	GRAPL	GRB2 related adaptor protein like	1.377	3.221	Up
388436	LOC388436	uncharacterized protein ENSP00000382042	2.278	2.053	Up
5598	MAPK7	mitogen-activated protein kinase 7	0.746	1.671	Up
256302	NATD1	N-acetyltransferase domain containing 1	2.172	17.537	Up
201229	LYRM9	LYR motif containing 9	1.196	7.422	Up
2319	FLOT2	flotillin 2	0.565	5.001	Up
147015	DHRS13	dehydrogenase/reductase 13	0.47	2.01	Up
57649	PHF12	PHD finger protein 12	0.672	1.688	Up
116236	ABHD15	abhydrolase domain containing 15	0.419	1.709	Up
85464	SSH2	slingshot protein phosphatase 2	1.513	10.5	Up
51379	CRLF3	cytokine receptor like factor 3	0.576	1.319	Up
4763	NF1	neurofibromin 1	0.82	1.729	Up
84440	RAB11FIP4	RAB11 family interacting protein 4	0.607	1.615	Up
114659	LRRC37B	leucine rich repeat containing 37B	1.706	3.605	Up
8851	CDK5R1	cyclin dependent kinase 5 regulatory subunit 1	2.207	4.52	Up
6347	CCL2	C-C motif chemokine ligand 2	1.849	3.106	Up
124842	TMEM132E	transmembrane protein 132E	2.835	3.412	Up
117584	RFFL	ring finger and FYVE like domain containing E3 ubiquitin protein ligase	0.572	2.394	Up
1.01E+08	RAD51L3-RFFL	RAD51L3-RFFL readthrough	0.531	1.862	Up
1.05E+08	LOC105371932	uncharacterized LOC105371932	0.876	1.402	Up
162394	SLFN5	schlafen family member 5	1.295	1.651	Up
79148	MMP28	matrix metallopeptidase 28	4.849	10.009	Up
414059	TBC1D3B	TBC1 domain family member 3B	1.408	1.729	Up
1.03E+08	TBC1D3I	TBC1 domain family member 3I	1.453	2.01	Up
729877	TBC1D3H	TBC1 domain family member 3H	1.327	1.66	Up
84218	TBC1D3F	TBC1 domain family member 3F	1.307	1.926	Up
11276	SYNRG	synergin gamma	0.537	2.303	Up
1.01E+08	TBC1D3K	TBC1 domain family member 3K	1.299	1.794	Up
1.01E+08	TBC1D3D	TBC1 domain family member 3D	1.316	2.076	Up
414060	TBC1D3C	TBC1 domain family member 3C	1.373	1.552	Up

1.03E+08	TBC1D3E	TBC1 domain family member 3E	0.636	2.121	Up
729873	TBC1D3	TBC1 domain family member 3	1.361	1.505	Up
8396	PIP4K2B	phosphatidylinositol-5-phosphate 4-kinase type 2 beta	0.685	5.044	Up
84961	FBXL20	F-box and leucine rich repeat protein 20	1.004	2.665	Up
10948	STARD3	StAR related lipid transfer domain containing 3	0.415	1.758	Up
8557	TCAP	titin-cap	1.266	1.383	Up
93210	PGAP3	post-GPI attachment to proteins phospholipase 3	0.913	3.194	Up
2064	ERBB2	erb-b2 receptor tyrosine kinase 2	0.877	2.168	Up
7067	THRA	thyroid hormone receptor alpha	1.8	20.179	Up
9572	NR1D1	nuclear receptor subfamily 1 group D member 1	1.869	16.268	Up
339287	MSL1	MSL complex subunit 1	0.513	2.55	Up
1236	CCR7	C-C motif chemokine receptor 7	0.684	2.743	Up
9001	HAP1	huntingtin associated protein 1	3.43	1.401	Up
6777	STAT5B	signal transducer and activator of transcription 5B	0.577	2.5	Up
162427	RETREG3	reticulophagy regulator family member 3	0.609	4.155	Up
2145	EZH1	enhancer of zeste 1 polycomb repressive complex 2 subunit	0.936	5.624	Up
10493	VAT1	vesicle amine transport 1	0.883	5.196	Up
10230	NBR2	neighbor of BRCA1 lncRNA 2	1.002	3.676	Up
4077	NBR1	NBR1 autophagy cargo receptor	0.395	1.968	Up
1E+08	LINC00910	long intergenic non-protein coding RNA 910	1.348	2.786	Up
92591	ASB16	ankyrin repeat and SOCS box containing 16	1.082	1.636	Up
339201	ASB16-AS1	ASB16 antisense RNA 1	1.243	6.709	Up
2896	GRN	granulin precursor	0.79	3.475	Up
2535	FZD2	frizzled class receptor 2	2.394	2.466	Up
79877	DCAKD	dephospho-CoA kinase domain containing	0.358	1.617	Up
79777	ACBD4	acyl-CoA binding domain containing 4	1.059	4.006	Up
9842	PLEKHM1	pleckstrin homology and RUN domain containing M1	0.387	1.636	Up
55073	LRRC37A4P	leucine rich repeat containing 37 member A4, pseudogene	1.252	1.408	Up
284058	KANSL1	KAT8 regulatory NSL complex subunit 1	0.751	3.047	Up
644246	KANSL1-AS1	KANSL1 antisense RNA 1	1.168	1.324	Up
114881	OSBPL7	oxysterol binding protein like 7	1.371	3.365	Up
124995	MRPL10	mitochondrial ribosomal protein L10	0.495	3.462	Up
90507	SCRN2	secernin 2	0.657	2.516	Up
22834	ZNF652	zinc finger protein 652	0.924	5.555	Up
81558	FAM117A	family with sequence similarity 117 member A	0.73	9.001	Up
5164	PDK2	pyruvate dehydrogenase kinase 2	0.485	1.85	Up
201191	SAMD14	sterile alpha motif domain containing 14	0.615	1.809	Up
80221	ACSF2	acyl-CoA synthetase family member 2	0.869	3.443	Up
55316	RSAD1	radical S-adenosyl methionine domain containing 1	0.559	3.284	Up
8714	ABCC3	ATP binding cassette subfamily C member 3	1.993	1.679	Up
10140	TOB1	transducer of ERBB2, 1	1.027	5.291	Up
400604	TOB1-AS1	TOB1 antisense RNA 1	2.205	4.318	Up
54799	MBTD1	mbt domain containing 1	0.919	5.36	Up
9241	NOG	noggin	3.763	8.441	Up
124540	MSI2	musashi RNA binding protein 2	0.47	1.68	Up
55545	MSX2P1	msh homeobox 2 pseudogene 1	1.405	3.438	Up

4353	MPO	myeloperoxidase	3.284	3.526	Up
4591	TRIM37	tripartite motif containing 37	0.39	1.371	Up
284161	GDPD1	glycerophosphodiester phosphodiesterase domain containing 1	1.204	1.791	Up
388403	YPEL2	yippee like 2	1.586	3.107	Up
1.05E+08	HEATR6-DT	HEATR6 divergent transcript	3.838	2.713	Up
645638	WFDC21P	WAP four-disulfide core domain 21, pseudogene	3.852	4.166	Up
54828	BCAS3	BCAS3 microtubule associated cell migration factor	0.864	3.017	Up
11011	TLK2	tousled like kinase 2	0.3	1.561	Up
26115	TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	0.952	2.029	Up
1636	ACE	angiotensin I converting enzyme	2.095	6.02	Up
4215	MAP3K3	mitogen-activated protein kinase kinase kinase 3	0.927	21.355	Up
1.02E+08	LOC101927898	uncharacterized LOC101927898	1.141	1.385	Up
80774	LIMD2	LIM domain containing 2	0.453	1.474	Up
2081	ERN1	endoplasmic reticulum to nucleus signaling 1	1.309	3.18	Up
11232	POLG2	DNA polymerase gamma 2, accessory subunit	0.444	1.42	Up
90799	CEP95	centrosomal protein 95	0.602	2.235	Up
8313	AXIN2	axin 2	1.027	15.971	Up
26207	PITPNC1	phosphatidylinositol transfer protein cytoplasmic 1	1.381	8.317	Up
1.02E+08	LOC101928045	uncharacterized LOC101928045	1.209	4.714	Up
1.05E+08	LOC105371870	uncharacterized LOC105371870	0.999	1.858	Up
5608	MAP2K6	mitogen-activated protein kinase kinase 6	2.773	14.13	Up
9382	COG1	component of oligomeric golgi complex 1	0.392	1.534	Up
54549	SDK2	sidekick cell adhesion molecule 2	1.832	2.933	Up
94015	TTYH2	tweety family member 2	1.214	1.932	Up
11314	CD300A	CD300a molecule	1.088	3.422	Up
146722	CD300LF	CD300 molecule like family member f	2.15	2.169	Up
1.05E+08	SLC9A3R1-AS1	SLC9A3R1 antisense RNA 1	0.786	2.424	Up
1.01E+08	MIR3615	microRNA 3615	0.728	1.558	Up
9368	NHERF1	NHERF family PDZ scaffold protein 1	0.593	1.97	Up
23510	KCTD2	potassium channel tetramerization domain containing 2	0.633	5.016	Up
9121	SLC16A5	solute carrier family 16 member 5	1.229	1.597	Up
79637	ARMC7	armadillo repeat containing 7	0.657	3.584	Up
9400	RECQL5	RecQ like helicase 5	0.843	2.456	Up
201292	TRIM65	tripartite motif containing 65	0.72	6.84	Up
85302	FBF1	Fas binding factor 1	1.442	3.085	Up
2302	FOXJ1	forkhead box J1	1.468	1.665	Up
1.01E+08	RNF157-AS1	RNF157 antisense RNA 1	1.493	15.906	Up
114804	RNF157	ring finger protein 157	1.065	3.711	Up
84074	QRICH2	glutamine rich 2	2.252	2.056	Up
15	AANAT	aralkylamine N-acetyltransferase	1.853	1.513	Up
114757	CYGB	cytoglobin	3.072	2.708	Up

768206	PRCD	photoreceptor disc component	2.611	2.097	Up
10610	ST6GALNAC2	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	2.219	3.317	Up
55808	ST6GALNAC1	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	1.741	6.351	Up
10801	SEPTIN9	septin 9	1.219	29.212	Up
1.12E+08	LOC112268199	uncharacterized LOC112268199	3.006	17.022	Up
57690	TNRC6C	trinucleotide repeat containing adaptor 6C	0.895	1.83	Up
1E+08	TNRC6C-AS1	replaced by ID 11322	1.906	11.27	Up
11322	TMC6	transmembrane channel like 6	0.975	3.778	Up
147138	TMC8	transmembrane channel like 8	1.331	9.259	Up
7077	TIMP2	TIMP metallopeptidase inhibitor 2	2.045	3.955	Up
64772	ENGASE	endo-beta-N-acetylglucosaminidase	0.714	1.32	Up
8535	CBX4	chromobox 4	1.149	6.204	Up
284131	ENDOV	endonuclease V	0.881	1.631	Up
1E+08	LOC100129503		1.265	1.906	Up
440465	BAIAP2-DT	BAIAP2 divergent transcript	1.095	4.162	Up
5148	PDE6G	phosphodiesterase 6G	1.439	1.357	Up
5986	RFNG	RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.684	2.801	Up
284001	CCDC57	coiled-coil domain containing 57	0.758	1.735	Up
64122	FN3K	fructosamine 3 kinase	0.965	2.633	Up
81035	COLEC12	collectin subfamily member 12	3.166	2.53	Up
645158	CBX3P2	CBX3 pseudogene 2	1.784	3.476	Up
23347	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	1.562	5.149	Up
7050	TGIF1	TGFB induced factor homeobox 1	1.305	3.624	Up
649446	DLGAP1-AS1	DLGAP1 antisense RNA 1	0.916	2.974	Up
7541	ZBTB14	zinc finger and BTB domain containing 14	0.858	7.828	Up
1.08E+08	LOC107985144	uncharacterized LOC107985144	3.047	1.921	Up
23136	EPB41L3	erythrocyte membrane protein band 4.1 like 3	2.43	2.754	Up
1.02E+08	NDUFV2-AS1	NDUFV2 antisense RNA 1	1.331	3.886	Up
11031	RAB31	RAB31, member RAS oncogene family	1.219	1.428	Up
2774	GNAL	G protein subunit alpha L	0.806	2.747	Up
57132	CHMP1B	charged multivesicular body protein 1B	0.387	1.822	Up
65258	MPPE1	metallophosphoesterase 1	0.803	4.776	Up
55125	CEP192	centrosomal protein 192	0.662	1.37	Up
753	LDLRAD4	low density lipoprotein receptor class A domain containing 4	0.83	3.977	Up
1.03E+08	TTC39C-AS1	TTC39C antisense RNA 1	1.421	2.002	Up
25925	ZNF521	zinc finger protein 521	1.575	1.763	Up
1824	DSC2	desmocollin 2	4.346	3.738	Up
1.02E+08	DSCAS	DSC1/DSC2 antisense RNA	3.245	1.4	Up
1823	DSC1	desmocollin 1	3.221	5.008	Up
1829	DSG2	desmoglein 2	1.703	1.715	Up
252884	ZNF396	zinc finger protein 396	1.768	3.182	Up

6563	SLC14A1	solute carrier family 14 member 1 (Kidd blood group)	2.698	1.614	Up
4092	SMAD7	SMAD family member 7	1.104	2.224	Up
54808	DYM	dymeclin	0.452	2.805	Up
26790	SNORD58B	small nucleolar RNA, C/D box 58B	0.986	1.558	Up
4089	SMAD4	SMAD family member 4	0.444	2.659	Up
6925	TCF4	transcription factor 4	1.156	3.033	Up
1.05E+08	LOC105372141	uncharacterized LOC105372141	1.026	2.736	Up
115701	ALPK2	alpha kinase 2	1.194	2.103	Up
57614	RELCH	RAB11 binding and LisH domain, coiled-coil and HEAT repeat containing	0.912	3.645	Up
79839	CCDC102B	coiled-coil domain containing 102B	1.713	2.362	Up
25914	RTTN	rotatin	0.515	2.112	Up
220158	GTSCR1	Gilles de la Tourette syndrome chromosome region, candidate 1	2.822	4.352	Up
201456	FBXO15	F-box protein 15	1.23	1.809	Up
284273	PTGR3	prostaglandin reductase 3	1.242	4.183	Up
10194	TSHZ1	teashirt zinc finger homeobox 1	1.083	5.36	Up
4155	MBP	myelin basic protein	1.315	10.864	Up
374868	ATP9B	ATPase phospholipid transporting 9B (putative)	0.429	1.702	Up
4772	NFATC1	nuclear factor of activated T cells 1	0.662	1.92	Up
440498	HSBP1L1	heat shock factor binding protein 1 like 1	0.705	1.868	Up
610	HCN2	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2	1.124	2.434	Up
91300	R3HDM4	R3H domain containing 4	0.917	6.03	Up
1265	CNN2	calponin 2	0.974	2.714	Up
10347	ABCA7	ATP binding cassette subfamily A member 7	1.717	5.018	Up
23526	ARHGAP45	Rho GTPase activating protein 45	0.984	5.698	Up
10297	APC2	APC regulator of WNT signaling pathway 2	1.156	2.265	Up
148223	C19orf25	chromosome 19 open reading frame 25	0.572	1.718	Up
81926	ABHD17A	abhydrolase domain containing 17A, depalmitoylase	0.793	4.725	Up
1455	CSNK1G2	casein kinase 1 gamma 2	0.423	1.376	Up
55643	BTBD2	BTB domain containing 2	1.168	22.737	Up
8175	SF3A2	splicing factor 3a subunit 2	0.423	1.367	Up
645191	LINGO3	leucine rich repeat and Ig domain containing 3	2.449	5.421	Up
56928	SPPL2B	signal peptide peptidase like 2B	0.728	3.234	Up
2788	GNG7	G protein subunit gamma 7	1.471	4.476	Up
115196	ZNF554	zinc finger protein 554	1.362	5.292	Up
148254	ZNF555	zinc finger protein 555	0.558	1.41	Up
166	TLE5	TLE family member 5, transcriptional modulator	0.922	5.498	Up
8698	S1PR4	sphingosine-1-phosphate receptor 4	1.526	15.447	Up
51343	FZR1	fizzy and cell division cycle 20 related 1	0.543	2.179	Up
6915	TBXA2R	thromboxane A2 receptor	2.737	12	Up
27134	TJP3	tight junction protein 3	1.441	7.286	Up
51341	ZBTB7A	zinc finger and BTB domain containing 7A	0.639	1.395	Up
126259	TMIGD2	transmembrane and immunoglobulin domain containing 2	1.517	4.1	Up
10501	SEMA6B	semaphorin 6B	2.496	4.049	Up
374875	HSD11B1L	hydroxysteroid 11-beta dehydrogenase 1 like	1.137	2.714	Up

400673	VMAC	vimentin type intermediate filament associated coiled-coil protein	0.972	3.042	Up
828	CAPS	calcyphosine	1.308	3.894	Up
5623	PSPN	persephin	2.052	1.32	Up
79958	DENND1C	DENN domain containing 1C	0.53	2.576	Up
2015	ADGRE1	adhesion G protein-coupled receptor E1	1.169	2.601	Up
1.05E+08	LOC105372256	uncharacterized LOC105372256	2.185	1.413	Up
23370	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18	1.686	5.743	Up
1.08E+08	LOC107985284	uncharacterized LOC107985284	2.798	3.706	Up
56949	XAB2	XPA binding protein 2	0.411	1.636	Up
126006	PCP2	Purkinje cell protein 2	1.836	2.828	Up
9230	RAB11B	RAB11B, member RAS oncogene family	0.507	3.555	Up
51257	MARCHF2	membrane associated ring-CH-type finger 2	0.423	1.436	Up
84106	PRAM1	PML-RARA regulated adaptor molecule 1	1.951	1.988	Up
84330	ZNF414	zinc finger protein 414	0.68	2.142	Up
4542	MYO1F	myosin IF	1.431	4.315	Up
81794	ADAMTS10	ADAM metallopeptidase with thrombospondin type 1 motif 10	1.509	1.496	Up
374879	ZNF699	zinc finger protein 699	0.601	3.014	Up
84527	ZNF559	zinc finger protein 559	0.532	1.921	Up
10781	ZNF266	zinc finger protein 266	0.709	4.69	Up
162993	ZNF846	zinc finger protein 846	1.096	1.798	Up
93145	OLFM2	olfactomedin 2	1.899	3.963	Up
1032	CDKN2D	cyclin dependent kinase inhibitor 2D	1.506	8.327	Up
57153	SLC44A2	solute carrier family 44 member 2	0.629	1.556	Up
147727	ILF3-DT	ILF3 divergent transcript	0.572	1.694	Up
90580	TIMM29	translocase of inner mitochondrial membrane 29	0.438	1.851	Up
115948	ODAD3	outer dynein arm docking complex subunit 3	0.655	3.013	Up
5589	PRKCSH	protein kinase C substrate 80K-H	0.652	3.887	Up
54	ACP5	acid phosphatase 5, tartrate resistant	1.421	3.296	Up
55552	ZNF823	zinc finger protein 823	0.817	1.567	Up
126069	ZNF491	zinc finger protein 491	1.66	3.438	Up
126070	ZNF440	zinc finger protein 440	0.648	2.148	Up
90594	ZNF439	zinc finger protein 439	1.121	4.17	Up
90592	ZNF700	zinc finger protein 700	0.676	2.222	Up
284390	ZNF763	zinc finger protein 763	1.485	3.947	Up
1.01E+08	ZNF625-ZNF20	ZNF625-ZNF20 readthrough (NMD candidate)	0.705	1.37	Up
7568	ZNF20	zinc finger protein 20	0.685	1.317	Up
51710	ZNF44	zinc finger protein 44	1.237	6.001	Up
147837	ZNF563	zinc finger protein 563	0.956	2.908	Up
90576	ZNF799	zinc finger protein 799	0.686	1.633	Up
163051	ZNF709	zinc finger protein 709	0.928	4.936	Up
163050	ZNF564	zinc finger protein 564	0.687	2.644	Up
1777	DNASE2	deoxyribonuclease 2, lysosomal	0.41	1.633	Up
4066	LYL1	LYL1 basic helix-loop-helix family member	0.847	3.036	Up
5989	RFX1	regulatory factor X1	0.611	2.419	Up
5585	PKN1	protein kinase N1	0.252	1.308	Up
9524	TECR	trans-2,3-enoyl-CoA reductase	0.812	4.298	Up
84449	ZNF333	zinc finger protein 333	0.725	1.877	Up

26993	AKAP8L	A-kinase anchoring protein 8 like	0.762	3.797	Up
10365	KLF2	KLF transcription factor 2	2.651	33.079	Up
376497	SLC27A1	solute carrier family 27 member 1	0.816	2.556	Up
27106	ARRDC2	arrestin domain containing 2	1.786	11.646	Up
10437	IFI30	IFI30 lysosomal thiol reductase	1.698	2.659	Up
5864	RAB3A	RAB3A, member RAS oncogene family	1.797	7.327	Up
80726	IQCN	IQ motif containing N	1.547	1.454	Up
1.05E+08	LOC105372300	uncharacterized LOC105372300	1.502	2.808	Up
54858	PGPEP1	pyroglutamyl-peptidase I	0.782	1.376	Up
9518	GDF15	growth differentiation factor 15	3.327	1.716	Up
126364	LRRC25	leucine rich repeat containing 25	2.827	6.332	Up
55295	KLHL26	kelch like family member 26	0.487	1.696	Up
23373	CRTC1	CREB regulated transcription coactivator 1	1.25	4.094	Up
284439	SLC25A42	solute carrier family 25 member 42	1.222	10.527	Up
23383	MAU2	MAU2 sister chromatid cohesion factor	0.637	2.906	Up
94039	ZNF101	zinc finger protein 101	1.108	1.488	Up
7561	ZNF14	zinc finger protein 14	0.719	2.114	Up
284440	LINC00663	long intergenic non-protein coding RNA 663	2.49	4.112	Up
1E+08	ZNF737	zinc finger protein 737	0.632	2.203	Up
80264	ZNF430	zinc finger protein 430	0.429	1.86	Up
170959	ZNF431	zinc finger protein 431	0.688	1.887	Up
284443	ZNF493	zinc finger protein 493	0.591	2.496	Up
353088	ZNF429	zinc finger protein 429	1.307	4.87	Up
148213	ZNF681	zinc finger protein 681	0.759	1.575	Up
9534	ZNF254	zinc finger protein 254	0.524	1.589	Up
1.02E+08	LINC02987	long intergenic non-protein coding RNA 2987	0.571	1.703	Up
79156	PLEKHF1	pleckstrin homology and FYVE domain containing 1	0.957	4.067	Up
1050	CEBPA	CCAAT enhancer binding protein alpha	1.238	1.919	Up
9710	GARRE1	granule associated Rac and RHOG effector 1	1.145	10.446	Up
339318	ZNF181	zinc finger protein 181	0.484	1.75	Up
148103	ZNF599	zinc finger protein 599	1.179	2.531	Up
400685	LINC01801	long intergenic non-protein coding RNA 1801	2.519	10.423	Up
90075	ZNF30	zinc finger protein 30	0.774	2.007	Up
126375	ZNF792	zinc finger protein 792	1.397	6.694	Up
57655	GRAMD1A	GRAM domain containing 1A	1	7.143	Up
5348	FXYD1	FXYD domain containing ion transport regulator 1	1.4	4.342	Up
53822	FXYD7	FXYD domain containing ion transport regulator 7	2.158	15.046	Up
53827	FXYD5	FXYD domain containing ion transport regulator 5	1.005	4.157	Up
51599	LSR	lipolysis stimulated lipoprotein receptor	0.731	4.387	Up
7392	USF2	upstream transcription factor 2, c-fos interacting	0.701	4.61	Up
199746	U2AF1L4	U2 small nuclear RNA auxiliary factor 1 like 4	0.533	2.545	Up
7305	TYROBP	transmembrane immune signaling adaptor TYROBP	1.782	3.304	Up
199745	THAP8	THAP domain containing 8	0.771	1.66	Up
57677	ZFP14	ZFP14 zinc finger protein	1.008	11.131	Up
84924	ZNF566	zinc finger protein 566	0.53	3.297	Up
339324	ZNF260	zinc finger protein 260	0.361	1.456	Up
57711	ZNF529	zinc finger protein 529	0.529	4.236	Up
92283	ZNF461	zinc finger protein 461	0.53	1.539	Up

1.02E+08	ZNF567-DT	ZNF567 divergent transcript	1.661	3.127	Up
25850	ZNF345	zinc finger protein 345	0.678	3.088	Up
374900	ZNF568	zinc finger protein 568	0.505	2.125	Up
92285	ZNF585B	zinc finger protein 585B	0.703	1.956	Up
163087	ZNF383	zinc finger protein 383	0.716	4.365	Up
284459	ZNF875	zinc finger protein 875	0.794	5.07	Up
84503	ZNF527	zinc finger protein 527	0.508	1.435	Up
163255	ZNF540	zinc finger protein 540	0.99	2.729	Up
51276	ZNF571	zinc finger protein 571	0.624	1.799	Up
22835	ZFP30	ZFP30 zinc finger protein	0.928	1.609	Up
147965	FAM98C	family with sequence similarity 98 member C	0.673	1.574	Up
342897	NCCRP1	NCCRP1, F-box associated domain containing	2.448	3.956	Up
57622	LRFN1	leucine rich repeat and fibronectin type III domain containing 1	1.18	8.538	Up
7538	ZFP36	ZFP36 ring finger protein	0.589	2.135	Up
126272	EID2B	EP300 interacting inhibitor of differentiation 2B	0.719	1.524	Up
9149	DYRK1B	dual specificity tyrosine phosphorylation regulated kinase 1B	1.013	4.423	Up
23646	PLD3	phospholipase D family member 3	0.89	9.956	Up
57716	PRX	periaxin	1.607	3.537	Up
1556	CYP2B7P	cytochrome P450 family 2 subfamily B member 7, pseudogene	1.413	1.324	Up
29785	CYP2S1	cytochrome P450 family 2 subfamily S member 1	2.217	1.958	Up
558	AXL	AXL receptor tyrosine kinase	2.662	2.523	Up
11100	HNRNPUL1	heterogeneous nuclear ribonucleoprotein U like 1	0.399	1.475	Up
1.05E+08	LOC105372401	uncharacterized LOC105372401	0.376	1.42	Up
90273	CEACAM21	CEA cell adhesion molecule 21	0.972	2.163	Up
9138	ARHGEF1	Rho guanine nucleotide exchange factor 1	0.812	3.797	Up
390937	ERFL	ETS repressor factor like	1.396	3.07	Up
1.01E+08	LOC100505585	replaced by ID 9138	1.742	4.254	Up
162989	DEDD2	death effector domain containing 2	0.515	2.135	Up
27076	LYPD3	LY6/PLAUR domain containing 3	1.114	3.365	Up
284346	ZNF575	zinc finger protein 575	1.484	3.007	Up
7515	XRCC1	X-ray repair cross complementing 1	0.605	3.126	Up
284349	ZNF283	zinc finger protein 283	0.672	2.419	Up
7773	ZNF230	zinc finger protein 230	0.683	2.829	Up
7766	ZNF223	zinc finger protein 223	0.97	3.446	Up
342909	ZNF284	zinc finger protein 284	0.953	5.002	Up
7767	ZNF224	zinc finger protein 224	0.808	3.879	Up
1E+08	ZNF225-AS1	ZNF225 and ZNF224 antisense RNA 1	0.785	3.317	Up
7768	ZNF225	zinc finger protein 225	0.582	1.878	Up
10780	ZNF234	zinc finger protein 234	0.419	1.45	Up
7769	ZNF226	zinc finger protein 226	0.716	4.499	Up
7770	ZNF227	zinc finger protein 227	0.719	6.002	Up
7733	ZNF180	zinc finger protein 180	0.678	4.553	Up
284353	NKPD1	NTPase KAP family P-loop domain containing 1	1.399	1.454	Up
79090	TRAPPC6A	trafficking protein particle complex subunit 6A	0.763	2.114	Up
388552	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3	0.637	3.934	Up

54814	QPCTL	glutaminyl-peptide cyclotransferase like	1.353	2.061	Up
26145	IRF2BP1	interferon regulatory factor 2 binding protein 1	0.698	1.416	Up
339344	MYPOP	Myb related transcription factor, partner of profilin	0.588	1.524	Up
728	C5AR1	complement C5a receptor 1	1.735	2.499	Up
29997	NOP53	NOP53 ribosome biogenesis factor	0.727	2.3	Up
1.06E+08	NOP53-AS1	NOP53 antisense RNA 1	0.669	1.751	Up
374920	ZSWIM9	zinc finger SWIM-type containing 9	1.176	2.406	Up
22900	CARD8	caspase recruitment domain family member 8	0.587	5.203	Up
55260	TMEM143	transmembrane protein 143	0.935	2.5	Up
10945	KDELR1	KDEL endoplasmic reticulum protein retention receptor 1	0.445	3.665	Up
114783	LMTK3	lemur tyrosine kinase 3	1.662	5.938	Up
1628	DBP	D-box binding PAR bZIP transcription factor	2.35	25.847	Up
770	CA11	carbonic anhydrase 11	0.979	4.716	Up
653677	SEC1P	secretory blood group 1, pseudogene	1.256	1.911	Up
126147	NTN5	netrin 5	1.761	1.919	Up
1.05E+08	LOC105372431	uncharacterized LOC105372431	2.483	2.061	Up
951	CD37	CD37 molecule	0.924	6.992	Up
2217	FCGRT	Fc gamma receptor and transporter	1.327	5.746	Up
57479	PRR12	proline rich 12	1.043	3.104	Up
80199	FUZ	fuzzy planar cell polarity protein	0.625	3.219	Up
1.05E+08	LOC105372435	uncharacterized LOC105372435	1.055	1.543	Up
27036	SIGLEC7	sialic acid binding Ig like lectin 7	2.836	1.384	Up
2359	FPR3	formyl peptide receptor 3	4.014	7.231	Up
59348	ZNF350	zinc finger protein 350	1.07	6.488	Up
284370	ZNF615	zinc finger protein 615	0.608	2.716	Up
90317	ZNF616	zinc finger protein 616	0.946	5.756	Up
162962	ZNF836	zinc finger protein 836	0.919	3.806	Up
90321	ZNF766	zinc finger protein 766	0.683	5.911	Up
162963	ZNF610	zinc finger protein 610	1.184	2.528	Up
84436	ZNF528	zinc finger protein 528	0.686	2.033	Up
55762	ZNF701	zinc finger protein 701	0.476	1.768	Up
7696	ZNF137P	zinc finger protein 137, pseudogene	1.235	1.805	Up
55769	ZNF83	zinc finger protein 83	0.746	4.538	Up
162967	ZNF320	zinc finger protein 320	0.598	3.82	Up
125893	ZNF816	zinc finger protein 816	1.033	5.675	Up
90338	ZNF160	zinc finger protein 160	0.988	1.927	Up
84671	ZNF347	zinc finger protein 347	0.52	1.456	Up
91664	ZNF845	zinc finger protein 845	0.568	3.922	Up
1.08E+08	LOC107987264	putative zinc finger protein 137	0.843	2.776	Up
170958	ZNF525	zinc finger protein 525	0.622	2.305	Up
1.1E+08	ZNF765-ZNF761	ZNF765-ZNF761 readthrough	0.785	3.901	Up
388561	ZNF761	zinc finger protein 761	0.773	3.947	Up
55422	ZNF331	zinc finger protein 331	0.352	2.376	Up
126014	OSCAR	osteoclast associated Ig-like receptor	2.087	2.456	Up
79042	TSEN34	tRNA splicing endonuclease subunit 34	0.402	1.383	Up

3903	LAIR1	leukocyte associated immunoglobulin like receptor 1	1.059	1.721	Up
255043	TMEM86B	transmembrane protein 86B	0.839	1.608	Up
84787	KMT5C	lysine methyltransferase 5C	1.328	3.09	Up
388564	TMEM238	transmembrane protein 238	0.734	1.659	Up
163033	ZNF579	zinc finger protein 579	0.739	2.055	Up
147807	ZNF524	zinc finger protein 524	1.073	5.283	Up
1.01E+08	ZNF865	zinc finger protein 865	1.144	5.37	Up
51545	ZNF581	zinc finger protein 581	0.825	3.67	Up
386758	ZNF582-DT	ZNF582 divergent transcript	1.041	2.682	Up
390980	ZNF805	zinc finger protein 805	0.513	1.679	Up
1.05E+08	ZNF460-AS1	ZNF460 antisense RNA 1	1.697	1.595	Up
57343	ZNF304	zinc finger protein 304	0.437	2.011	Up
79744	ZNF419	zinc finger protein 419	0.629	3.172	Up
374928	ZNF773	zinc finger protein 773	0.735	3.137	Up
256051	ZNF549	zinc finger protein 549	0.501	3.158	Up
162972	ZNF550	zinc finger protein 550	1.258	3.96	Up
284307	ZIK1	zinc finger protein interacting with K protein 1	0.561	1.743	Up
348327	ZNF530	zinc finger protein 530	0.573	1.881	Up
10520	ZNF211	zinc finger protein 211	0.756	4.067	Up
79891	ZNF671	zinc finger protein 671	1.04	8.109	Up
79818	ZNF552	zinc finger protein 552	0.448	1.471	Up
80095	ZNF606	zinc finger protein 606	1.008	4.27	Up
65982	ZSCAN18	zinc finger and SCAN domain containing 18	0.921	3.973	Up
116412	ZNF837	zinc finger protein 837	1.114	2.055	Up
55663	ZNF446	zinc finger protein 446	0.857	3.042	Up
7593	MZF1	myeloid zinc finger 1	0.956	3.066	Up
6666	SOX12	SRY-box transcription factor 12	0.936	2.271	Up
9751	SNPH	syntaphilin	1.106	4.049	Up
79175	ZNF343	zinc finger protein 343	0.508	2.775	Up
64773	PCED1A	PC-esterase domain containing 1A	0.914	3.351	Up
5786	PTPRA	protein tyrosine phosphatase receptor type A	0.54	3.082	Up
551	AVP	arginine vasopressin	3.525	2.709	Up
22888	UBOX5	U-box domain containing 5	0.543	4.383	Up
9762	LZTS3	leucine zipper tumor suppressor family member 3	1.251	4.638	Up
994	CDC25B	cell division cycle 25B	1.659	9.156	Up
56255	TMX4	thioredoxin related transmembrane protein 4	0.975	5.144	Up
140862	ISM1	isthmin 1	2.279	5.56	Up
57325	KAT14	lysine acetyltransferase 14	0.435	2.376	Up
7692	ZNF133	zinc finger protein 133	0.863	3.588	Up
55857	KIZ	kizuna centrosomal protein	1.031	6.429	Up
1471	CST3	cystatin C	1.143	1.945	Up
26090	ABHD12	abhydrolase domain containing 12, lysophospholipase	0.532	1.409	Up
1E+08	FRG1CP	FSHD region gene 1 family member C, pseudogene	0.805	4.695	Up
140688	NOL4L	nucleolar protein 4 like	1.452	4.56	Up
1.02E+08	LOC101929698	uncharacterized LOC101929698	3.217	9.502	Up

9139	CBFA2T2	CBFA2/RUNX1 partner transcriptional co-repressor 2	0.914	2.055	Up
11264	PXMP4	peroxisomal membrane protein 4	0.949	4.74	Up
84905	ZNF341	zinc finger protein 341	0.53	1.359	Up
1.11E+08	MMP24-AS1-EDEM2	MMP24-AS1-EDEM2 readthrough	0.462	1.71	Up
57446	NDRG3	NDRG family member 3	0.865	7.317	Up
140710	SOGA1	suppressor of glucose, autophagy associated 1	1.021	1.662	Up
10904	BLCAP	BLCAP apoptosis inducing factor	0.75	2.114	Up
128439	SNHG11	small nucleolar RNA host gene 11	1.044	1.567	Up
9935	MAFB	MAF bZIP transcription factor B	3.432	18.834	Up
5335	PLCG1	phospholipase C gamma 1	0.772	1.565	Up
23051	ZHX3	zinc fingers and homeoboxes 3	0.631	2.074	Up
84181	CHD6	chromodomain helicase DNA binding protein 6	0.93	2.322	Up
51526	OSER1	oxidative stress responsive serine rich 1	0.578	1.659	Up
1.01E+08	OSER1-DT	OSER1 divergent transcript	2.08	5.073	Up
128486	FITM2	fat storage inducing transmembrane protein 2	0.96	2.055	Up
6789	STK4	serine/threonine kinase 4	0.608	3.749	Up
63935	PCIF1	phosphorylated CTD interacting factor 1	0.482	3.061	Up
57580	PREX1	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1	0.917	3.747	Up
441951	ZFAS1	ZNFX1 antisense RNA 1	0.952	2.692	Up
1.01E+08	PELATON	plaque enriched lncRNA in atherosclerotic and inflammatory bowel macrophage regulation	3.147	5.462	Up
116151	FAM210B	family with sequence similarity 210 member B	1.253	5.696	Up
81030	ZBP1	Z-DNA binding protein 1	1.846	4.946	Up
1.05E+08	NKILA	NF-kappaB interacting lncRNA	1.019	1.476	Up
128611	ZNF831	zinc finger protein 831	1.696	5.142	Up
1908	EDN3	endothelin 3	4.828	1.904	Up
63939	FAM217B	family with sequence similarity 217 member B	0.859	6.405	Up
5509	PPP1R3D	protein phosphatase 1 regulatory subunit 3D	0.939	4.407	Up
149986	LSM14B	LSM family member 14B	0.372	1.822	Up
9885	OSBPL2	oxysterol binding protein like 2	0.466	2.455	Up
1.02E+08	SLCO4A1-AS2	SLCO4A1 antisense RNA 2	1.067	3.263	Up
10732	TCFL5	transcription factor like 5	0.527	1.983	Up
1.01E+08	MHENCR	melanoma highly expressed competing endogenous lncRNA for miR-425 and miR-489	2.207	23.309	Up
50861	STMN3	stathmin 3	1.203	5.25	Up
54923	LIME1	Lck interacting transmembrane adaptor 1	1.883	9.302	Up
56731	SLC2A4RG	SLC2A4 regulator	0.688	1.956	Up
80331	DNAJC5	DnaJ heat shock protein family (Hsp40) member C5	0.406	1.342	Up
6919	TCEA2	transcription elongation factor A2	0.422	2.551	Up
4987	OPRL1	opioid related nociceptin receptor 1	1.41	2.127	Up
55251	PCMTD2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	1.467	16.036	Up
29761	USP25	ubiquitin specific peptidase 25	0.627	5.329	Up
351	APP	amyloid beta precursor protein	0.498	2.198	Up
56911	MAP3K7CL	MAP3K7 C-terminal like	1.011	1.32	Up

54067	C21orf62-AS1	C21orf62 antisense RNA 1	1.523	3.193	Up
3455	IFNAR2	interferon alpha and beta receptor subunit 2	0.827	8.113	Up
1.01E+08	LINC00649	long intergenic non-protein coding RNA 649	1.163	1.919	Up
1.02E+08	LOC101928126	uncharacterized LOC101928126	1.425	2.07	Up
23515	MORC3	MORC family CW-type zinc finger 3	0.395	1.662	Up
7267	TTC3	tetratricopeptide repeat domain 3	1.13	7.328	Up
1.01E+08	TTC3-AS1	TTC3 antisense RNA 1	1.151	4.812	Up
1859	DYRK1A	dual specificity tyrosine phosphorylation regulated kinase 1A	0.585	3.172	Up
54014	BRWD1	bromodomain and WD repeat domain containing 1	0.716	2.518	Up
4600	MX2	MX dynamin like GTPase 2	1.022	2.081	Up
89766	UMODL1	uromodulin like 1	3.658	1.463	Up
9619	ABCG1	ATP binding cassette subfamily G member 1	1.334	2.165	Up
8209	GATD3	glutamine amidotransferase class 1 domain containing 3	0.61	1.34	Up
3689	ITGB2	integrin subunit beta 2	0.667	3.61	Up
642852	LINC00205	long intergenic non-protein coding RNA 205	1.243	3.296	Up
80781	COL18A1	collagen type XVIII alpha 1 chain	1.028	1.804	Up
54058	C21orf58	chromosome 21 open reading frame 58	1.121	1.641	Up
6285	S100B	S100 calcium binding protein B	2.352	2.098	Up
3275	PRMT2	protein arginine methyltransferase 2	0.865	7.571	Up
23765	IL17RA	interleukin 17 receptor A	1.292	5.016	Up
27439	TMEM121B	transmembrane protein 121B	2.415	1.639	Up
51816	ADA2	adenosine deaminase 2	2.043	4.085	Up
200298	LINC00528	long intergenic non-protein coding RNA 528	0.961	2.42	Up
728229	TMEM191B	transmembrane protein 191B	1.276	1.614	Up
85376	RIMBP3	RIMS binding protein 3	2.499	14.786	Up
9993	DGCR2	DiGeorge syndrome critical region gene 2	0.705	7.216	Up
128977	C22orf39	chromosome 22 open reading frame 39	0.856	4.403	Up
79680	RTL10	retrotransposon Gag like 10	0.701	2.02	Up
65078	RTN4R	reticulon 4 receptor	1.514	3.44	Up
7625	ZNF74	zinc finger protein 74	0.605	1.51	Up
91179	SCARF2	scavenger receptor class F member 2	1.285	1.46	Up
84861	KLHL22	kelch like family member 22	0.506	1.417	Up
51586	MED15	mediator complex subunit 15	0.944	4.078	Up
84222	TMEM191A	transmembrane protein 191A (pseudogene)	1.219	3.257	Up
400892	BCRP2	BCR pseudogene 2	1.527	2.379	Up
440804	RIMBP3B	RIMS binding protein 3B	2.293	12.605	Up
645426	TMEM191C	transmembrane protein 191C	1.034	1.739	Up
150221	RIMBP3C	RIMS binding protein 3C	2.24	13.235	Up
29799	YPEL1	yippee like 1	0.975	2.982	Up
28804	IGLV3-9	immunoglobulin lambda variable 3-9	4.181	1.503	Up
4320	MMP11	matrix metallopeptidase 11	1.125	1.734	Up
66035	SLC2A11	solute carrier family 2 member 11	1.06	2.013	Up
135	ADORA2A	adenosine A2a receptor	0.636	2.15	Up
129049	SGSM1	small G protein signaling modulator 1	1.467	1.84	Up
89781	HPS4	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2	0.419	1.842	Up

1.01E+08	TFIP11-DT	TFIP11 divergent transcript	1.261	2.204	Up
1.1E+08	LOC110091768	uncharacterized LOC110091768	2.893	2.239	Up
4330	MN1	MN1 proto-oncogene, transcriptional regulator	1.527	1.755	Up
284900	TTC28-AS1	TTC28 antisense RNA 1	1.195	5.861	Up
11200	CHEK2	checkpoint kinase 2	0.543	1.482	Up
10634	GAS2L1	growth arrest specific 2 like 1	0.872	1.323	Up
8897	MTMR3	myotubularin related protein 3	0.519	2.23	Up
652968	CASTOR1	cytosolic arginine sensor for mTORC1 subunit 1	0.719	1.526	Up
83874	TBC1D10A	TBC1 domain family member 10A	0.867	4.714	Up
23541	SEC14L2	SEC14 like lipid binding 2	0.708	2.292	Up
9514	GAL3ST1	galactose-3-O-sulfotransferase 1	2.169	2.675	Up
1.08E+08	LOC107985544	uncharacterized LOC107985544	1.26	3.444	Up
3985	LIMK2	LIM domain kinase 2	1.175	11.577	Up
113791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	1.651	13.723	Up
23598	PATZ1	POZ/BTB and AT hook containing zinc finger 1	0.842	12.15	Up
1.02E+08	PIK3IP1-DT	PIK3IP1 divergent transcript	2.201	1.567	Up
54944	LINC01521	long intergenic non-protein coding RNA 1521	1.502	1.596	Up
10043	TOM1	target of myb1 membrane trafficking protein	0.639	2.727	Up
27128	CYTH4	cytohesin 4	1.162	6.046	Up
1.05E+08	LOC105373024	uncharacterized LOC105373024	1.243	3.228	Up
114794	ELFN2	extracellular leucine rich repeat and fibronectin type III domain containing 2	2.091	4.136	Up
10521	DDX17	DEAD-box helicase 17	0.534	1.597	Up
25776	CBY1	chibby family member 1, beta catenin antagonist	0.954	3.78	Up
9567	GTPBP1	GTP binding protein 1	0.467	4.892	Up
25777	SUN2	Sad1 and UNC84 domain containing 2	1.505	17.537	Up
23467	NPTXR	neuronal pentraxin receptor	0.785	1.641	Up
23492	CBX7	chromobox 7	0.852	7.464	Up
5155	PDGFB	platelet derived growth factor subunit B	1.941	2.978	Up
10454	TAB1	TGF-beta activated kinase 1 (MAP3K7) binding protein 1	0.582	2.379	Up
8911	CACNA1I	calcium voltage-gated channel subunit alpha1 I	1.773	14.83	Up
23112	TNRC6B	trinucleotide repeat containing adaptor 6B	0.78	2.084	Up
57591	MRTFA	myocardin related transcription factor A	0.62	3.057	Up
7008	TEF	TEF transcription factor, PAR bZIP family member	0.574	2.907	Up
150365	MEI1	meiotic double-stranded break formation protein 1	0.683	2.301	Up
1.01E+08	MIR378I	microRNA 378i	1.469	2.049	Up
1E+08	NDUFA6-DT	NDUFA6 divergent transcript	0.798	2.516	Up
1.03E+08	LOC102723722	uncharacterized LOC102723722	1.075	2.033	Up
11252	PACSIN2	protein kinase C and casein kinase substrate in neurons 2	0.53	3.529	Up
25809	TTLL1	TTL family tubulin polyglutamylase complex subunit L1	0.953	4.332	Up
64781	CERK	ceramide kinase	0.836	7.076	Up

1.05E+08	LOC105373077	uncharacterized LOC105373077	1.273	1.917	Up
25771	TBC1D22A	TBC1 domain family member 22A	0.324	2.029	Up
6305	SBF1	SET binding factor 1	0.557	1.37	Up
286530	P2RY8	P2Y receptor family member 8	0.914	2.557	Up
1.02E+08	LOC101928092	uncharacterized LOC101928092	1.457	1.319	Up
729162	FAM239B	zinc finger protein 839 pseudogene	0.571	1.401	Up
6907	TBL1X	transducin beta like 1 X-linked	0.864	3.118	Up
51311	TLR8	toll like receptor 8	1.55	1.314	Up
170082	TCEANC	transcription elongation factor A N-terminal and central domain containing	0.57	1.738	Up
6399	TRAPPC2	trafficking protein particle complex subunit 2	0.449	2.244	Up
57393	CLTRN	collectrin, amino acid transport regulator	1.696	1.86	Up
1.14E+08	CA5BP1-CA5B	CA5BP1-CA5B readthrough	0.77	2.093	Up
11238	CA5B	carbonic anhydrase 5B	0.903	2.903	Up
9185	REPS2	RALBP1 associated Eps domain containing 2	2.098	2.776	Up
6322	SCML1	Scm polycomb group protein like 1	1.292	3.081	Up
10742	RAI2	retinoic acid induced 2	1.56	1.31	Up
1536	CYBB	cytochrome b-245 beta chain	2.925	4.767	Up
7102	TSPAN7	tetraspanin 7	1.723	1.47	Up
1.05E+08	LOC105373177	uncharacterized LOC105373177	2.049	1.358	Up
55634	KRBOX4	KRAB box domain containing 4	0.898	4.358	Up
641339	ZNF674	zinc finger protein 674	0.605	1.424	Up
56548	CHST7	carbohydrate sulfotransferase 7	0.47	1.39	Up
5199	CFP	complement factor properdin	1.291	5.639	Up
7569	ZNF182	zinc finger protein 182	0.719	3.92	Up
11230	PRAF2	PRA1 domain family member 2	0.464	1.405	Up
1.05E+08	LOC105373195	uncharacterized LOC105373195	1.742	1.458	Up
54954	FAM120C	family with sequence similarity 120C	0.995	2.852	Up
2245	FGD1	FYVE, RhoGEF and PH domain containing 1	0.752	3.426	Up
158880	USP51	ubiquitin specific peptidase 51	0.676	1.573	Up
7789	ZXDA	zinc finger X-linked duplicated A	0.501	1.912	Up
92249	LINC01278	long intergenic non-protein coding RNA 1278	0.688	4.357	Up
23229	ARHGEF9	Cdc42 guanine nucleotide exchange factor 9	0.92	9.286	Up
55906	ZC4H2	zinc finger C4H2-type containing	0.586	2.295	Up
340554	ZC3H12B	zinc finger CCCH-type containing 12B	0.893	2.626	Up
1.08E+08	LOC107985679		2.32	3.536	Up
3476	IGBP1	immunoglobulin binding protein 1	1.071	3.715	Up
4303	FOXO4	forkhead box O4	0.723	1.995	Up
9203	ZMYM3	zinc finger MYM-type containing 3	0.692	5.045	Up
1.05E+08	LOC105373247	uncharacterized LOC105373247	2.167	2.406	Up
6872	TAF1	TATA-box binding protein associated factor 1	0.491	1.546	Up
8473	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase	0.606	2.691	Up
93953	GCNA	germ cell nuclear acidic peptidase	1.095	1.326	Up
441501	LINC00891	long intergenic non-protein coding RNA 891	2.483	2.441	Up

1E+08	LOC100132741	uncharacterized LOC100132741	2.871	2.932	Up
340527	NHSL2	NHS like 2	1.946	6.672	Up
286495	TTC3P1	tetratricopeptide repeat domain 3 pseudogene 1	0.742	1.614	Up
57692	MAGEE1	MAGE family member E1	0.747	1.741	Up
538	ATP7A	ATPase copper transporting alpha	0.531	2.61	Up
27334	P2RY10	P2Y receptor family member 10	0.821	1.889	Up
1.05E+08	LOC105373283		1.581	1.45	Up
6451	SH3BGRL	SH3 domain binding glutamate rich protein like	0.85	3.197	Up
4675	NAP1L3	nucleosome assembly protein 1 like 3	0.657	2.648	Up
7105	TSPAN6	tetraspanin 6	0.72	1.375	Up
84460	ZMAT1	zinc finger matrin-type 1	1.022	1.507	Up
9737	GPRASP1	G protein-coupled receptor associated sorting protein 1	1.047	2.721	Up
114928	GPRASP2	G protein-coupled receptor associated sorting protein 2	1.077	2.541	Up
56271	BEX4	brain expressed X-linked 4	0.551	1.534	Up
90843	TCEAL8	transcription elongation factor A like 8	0.917	2.15	Up
27018	BEX3	brain expressed X-linked 3	1.587	8.511	Up
9338	TCEAL1	transcription elongation factor A like 1	0.704	1.383	Up
401612	SLC25A53	solute carrier family 25 member 53	1.343	1.992	Up
644353	ZCCHC18	zinc finger CCHC-type containing 18	1.104	2.001	Up
79710	MORC4	MORC family CW-type zinc finger 4	0.796	2.922	Up
1831	TSC22D3	TSC22 domain family member 3	1.906	10.446	Up
11043	MID2	midline 2	0.411	1.543	Up
340547	VSIG1	V-set and immunoglobulin domain containing 1	2.789	19.866	Up
5063	PAK3	p21 (RAC1) activated kinase 3	0.74	1.57	Up
154796	AMOT	angiomotin	1.091	1.424	Up
139818	DOCK11	dedicator of cytokinesis 11	0.861	4.192	Up
3597	IL13RA1	interleukin 13 receptor subunit alpha 1	1.728	2.089	Up
79836	LONRF3	LON peptidase N-terminal domain and ring finger 3	0.717	3.357	Up
23157	SEPTIN6	septin 6	0.58	2.444	Up
347454	SOWAHD	sosondowah ankyrin repeat domain family member D	1.711	1.6	Up
7737	RNF113A	ring finger protein 113A	0.539	2.055	Up
8450	CUL4B	cullin 4B	1.053	5.789	Up
55796	MBNL3	muscleblind like splicing regulator 3	1	2.435	Up
7626	ZNF75D	zinc finger protein 75D	0.798	2.075	Up
2332	FMR1	fragile X messenger ribonucleoprotein 1	0.471	1.498	Up
84548	TMEM185A	transmembrane protein 185A	0.51	1.807	Up
7739	ZNF185	zinc finger protein 185 with LIM domain	1.727	7.667	Up
11219	TREX2	three prime repair exonuclease 2	1.679	2.519	Up
5973	RENBP	renin binding protein	1.089	4.964	Up
1.01E+08	HCFC1-AS1	HCFC1 antisense RNA 1	3.049	1.697	Up
8269	TMEM187	transmembrane protein 187	1.052	4.445	Up
4204	MECP2	methyl-CpG binding protein 2	0.706	2.588	Up
8277	TKTL1	transketolase like 1	3.402	7.365	Up
6901	TAFAZZIN	tafazzin, phospholipid-lysophospholipid transacylase	0.286	1.372	Up

537	ATP6AP1	ATPase H+ transporting accessory protein 1	0.255	1.597	Up
8263	F8A1	coagulation factor VIII associated 1	0.456	1.614	Up
1E+08	CMC4	C-X9-C motif containing 4	0.982	3.521	Up
4515	MTCP1	mature T cell proliferation 1	0.689	2.223	Up
3581	IL9R	interleukin 9 receptor	1.5	5.51	Up
4573	TRNR	tRNA-Arg	1.767	1.761	Up
4571	TRNP	tRNA-Pro	1.29	1.734	Up

Table s5: Activat vsActivat TB_P

GeneID	Symbol	Description	log2(fold change)	#NAME?	Set
9249	DHRS3	dehydrogenase/reductase 3	-0.858	1.937	Down
2268	FGR	FGR proto-oncogene, Src family tyrosine kinase	-2.122	1.554	Down
85028	SNHG12	small nucleolar RNA host gene 12	-1.249	1.559	Down
51440	HPCAL4	hippocalcin like 4	-0.946	2.263	Down
64744	SMAP2	small ArfGAP2	-0.456	2.108	Down
8613	PLPP3	phospholipid phosphatase 3	-5.38	2.063	Down
3725	JUN	Jun proto-oncogene, AP-1 transcription factor subunit	-1.095	1.755	Down
8412	BCAR3	BCAR3 adaptor protein, NSP family member	-1.495	2.152	Down
8556	CDC14A	cell division cycle 14A	-0.641	1.607	Down
128346	C1orf162	chromosome 1 open reading frame 162	-0.968	1.398	Down
10628	TXNIP	thioredoxin interacting protein	-1.016	4.495	Down
57326	PBXIP1	PBX homeobox interacting protein 1	-0.704	4.862	Down
9103	FCGR2C	Fc gamma receptor IIc (gene/pseudogene)	-2.554	2.263	Down
2213	FCGR2B	Fc gamma receptor IIb	-3.035	4.599	Down
10223	GPA33	glycoprotein A33	-1.286	1.365	Down
7292	TNFSF4	TNF superfamily member 4	-0.721	1.437	Down
1.07E+08	SNORA103	small nucleolar RNA, H/ACA box 103	-1.216	1.394	Down
1.05E+08	LOC105371622	uncharacterized LOC105371622	-1.815	3.984	Down
81788	NUAK2	NUAK family kinase 2	-0.983	2.096	Down
9214	FCMR	Fc mu receptor	-0.957	1.338	Down
10472	ZBTB18	zinc finger and BTB domain containing 18	-0.891	1.641	Down
8462	KLF11	KLF transcription factor 11	-0.825	3.179	Down
678	ZFP36L2	ZFP36 ring finger protein like 2	-1.155	2.216	Down
23177	CEP68	centrosomal protein 68	-0.987	2.786	Down

11320	MGAT4A	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A	-0.576	1.381	Down
284996	RNF149	ring finger protein 149	-0.65	2.299	Down
1.12E+08	LOC112268426		-1.84	7.182	Down
7852	CXCR4	C-X-C motif chemokine receptor 4	-1.821	7.963	Down
5334	PLCL1	phospholipase C like 1 (inactive)	-0.689	3.123	Down
2043	EPHA4	EPH receptor A4	-1.86	4.496	Down
57007	ACKR3	atypical chemokine receptor 3	-2.249	4.291	Down
92106	OXNAD1	oxidoreductase NAD binding domain containing 1	-0.66	1.588	Down
9975	NR1D2	nuclear receptor subfamily 1 group D member 2	-1.029	4.595	Down
10491	CRTAP	cartilage associated protein	-0.776	1.584	Down
10803	CCR9	C-C motif chemokine receptor 9	-2.425	2.135	Down
131909	FAM172BP	family with sequence similarity 172 member B, pseudogene	-0.845	1.496	Down
80325	ABTB1	ankyrin repeat and BTB domain containing 1	-0.801	4.599	Down
54800	KLHL24	kelch like family member 24	-1.254	6.363	Down
116211	TM4SF19	transmembrane 4 L six family member 19	-3.866	1.384	Down
201895	SMIM14	small integral membrane protein 14	-0.971	1.701	Down
10396	ATP8A1	ATPase phospholipid transporting 8A1	-0.938	1.432	Down
27284	SULT1B1	sulfotransferase family 1B member 1	-2.312	3.792	Down
6374	CXCL5	C-X-C motif chemokine ligand 5	-6.125	8.004	Down
246175	CNOT6L	CCR4-NOT transcription complex subunit 6 like	-0.969	3.63	Down
5530	PPP3CA	protein phosphatase 3 catalytic subunit alpha	-0.691	1.645	Down
4126	MANBA	mannosidase beta	-0.813	3.482	Down
1.08E+08	LOC107986196	uncharacterized LOC107986196	-1.442	1.351	Down
23022	PALLD	palladin, cytoskeletal associated protein	-2.172	1.698	Down
3575	IL7R	interleukin 7 receptor	-1.817	5.458	Down
1601	DAB2	DAB adaptor protein 2	-1.937	1.539	Down
79722	ANKRD55	ankyrin repeat domain 55	-2.076	2.494	Down

4214	MAP3K1	mitogen-activated protein kinase kinase kinase 1	-0.413	1.373	Down
5295	PIK3R1	phosphoinositide-3-kinase regulatory subunit 1	-0.739	4.874	Down
51301	GCNT4	glucosaminyl (N-acetyl) transferase 4	-1.201	3.609	Down
57561	ARRDC3	arrestin domain containing 3	-1.184	1.516	Down
96459	FNIP1	folliculin interacting protein 1	-0.482	1.404	Down
51523	CXXC5	CXXC finger protein 5	-1.617	3.652	Down
1809	DPYSL3	dihydropyrimidinase like 3	-4.654	6.274	Down
729678	LINC00847	long intergenic non-protein coding RNA 847	-0.818	3.276	Down
51439	FAM8A1	family with sequence similarity 8 member A1	-0.808	1.854	Down
2289	FKBP5	FKBP prolyl isomerase 5	-0.734	4.448	Down
79627	OGFRL1	opioid growth factor receptor like 1	-0.846	1.572	Down
58528	RRAGD	Ras related GTP binding D	-0.783	1.844	Down
115330	GPR146	G protein-coupled receptor 146	-1.056	1.984	Down
401303	ZNF815P	zinc finger protein 815, pseudogene	-1.155	1.908	Down
10457	GPNMB	glycoprotein nmb	-2.498	4.65	Down
5166	PDK4	pyruvate dehydrogenase kinase 4	-5.584	2.132	Down
222255	ATXN7L1	ataxin 7 like 1	-0.795	1.536	Down
728743	LOC728743	zinc finger domain-containing protein LOC728743	-0.798	1.755	Down
170575	GIMAP1	GTPase, IMAP family member 1	-0.646	1.527	Down
4023	LPL	lipoprotein lipase	-5.699	5.542	Down
1.05E+08	LOC105379326		-1.741	2.391	Down
85479	DNAJC5B	DnaJ heat shock protein family (Hsp40) member C5 beta	-1.978	1.526	Down
2167	FABP4	fatty acid binding protein 4	-7.138	4.28	Down
94241	TP53INP1	tumor protein p53 inducible nuclear protein 1	-0.773	1.419	Down
6383	SDC2	syndecan 2	-3.531	7.188	Down
359809	PEG13	paternally expressed 13	-1.473	2.391	Down
123	PLIN2	perilipin 2	-1.077	4.595	Down

360	AQP3	aquaporin 3 (Gill blood group)	-1.002	1.447	Down
7088	TLE1	TLE family member 1, transcriptional corepressor	-1.571	1.419	Down
1514	CTSL	cathepsin L	-1.361	1.487	Down
401548	SNX30	sorting nexin family member 30	-0.579	1.4	Down
9966	TNFSF15	TNF superfamily member 15	-4.682	1.868	Down
5742	PTGS1	prostaglandin-endoperoxide synthase 1	-1.257	1.408	Down
1621	DBH	dopamine beta-hydroxylase	-2.368	2.557	Down
138948	DBH-AS1	DBH antisense RNA 1	-2.695	3.123	Down
84973	SNHG7	small nucleolar RNA host gene 7	-1.054	2.434	Down
9022	CLIC3	chloride intracellular channel 3	-2.899	2.581	Down
4360	MRC1	mannose receptor C-type 1	-3.302	1.775	Down
220213	OTUD1	OTU deubiquitinase 1	-0.509	1.95	Down
143098	MPP7	MAGUK p55 scaffold protein 7	-1.305	1.942	Down
8829	NRP1	neuropilin 1	-1.868	2.108	Down
219749	ZNF25	zinc finger protein 25	-0.486	1.438	Down
80201	HKDC1	hexokinase domain containing 1	-2.239	1.357	Down
10023	FRAT1	FRAT regulator of WNT signaling pathway 1	-0.888	1.755	Down
4601	MXI1	MAX interactor 1, dimerization protein	-0.686	3.596	Down
282997	PDCD4-AS1	PDCD4 antisense RNA 1	-1.142	1.844	Down
1.05E+08	LOC105376548	uncharacterized LOC105376548	-2.12	2.038	Down
10418	SPON1	spondin 1	-0.755	1.835	Down
5140	PDE3B	phosphodiesterase 3B	-0.823	2.96	Down
219539	YPEL4	yippee like 4	-2.201	1.998	Down
23642	SNHG1	small nucleolar RNA host gene 1	-1.057	1.631	Down
10235	RASGRP2	RAS guanyl releasing protein 2	-1.216	7.391	Down
4312	MMP1	matrix metallopeptidase 1	-3.935	1.854	Down
6653	SORL1	sortilin related receptor 1	-0.879	1.4	Down

928	CD9	CD9 molecule	-0.868	1.608	Down
1.08E+08	LOC107987174		-1.174	1.474	Down
25875	LETMD1	LETM1 domain containing 1	-0.882	3.02	Down
319101	KRT73	keratin 73	-2.824	2.299	Down
11213	IRAK3	interleukin 1 receptor associated kinase 3	-1.634	2.299	Down
338773	TMEM119	transmembrane protein 119	-3.291	1.474	Down
1.01E+08	LINC02361	long intergenic non-protein coding RNA 2361	-0.976	1.438	Down
8848	TSC22D1	TSC22 domain family member 1	-0.942	5.375	Down
283514	SIAH3	siah E3 ubiquitin protein ligase family member 3	-3.581	1.849	Down
22821	RASA3	RAS p21 protein activator 3	-0.776	1.569	Down
57161	PELI2	pellino E3 ubiquitin protein ligase family member 2	-0.867	1.516	Down
1.05E+08	LINC02320	long intergenic non-protein coding RNA 2320	-3.379	3.05	Down
145200	LINC00239	long intergenic non-protein coding RNA 239	-1.594	3.179	Down
440253	WHAMMP2	WHAMM pseudogene 2	-2.028	2.82	Down
1E+08	WHAMMP4	WHAMM pseudogene 4	-1.136	1.357	Down
26585	GREM1	gremlin 1, DAN family BMP antagonist	-4.285	4.103	Down
7057	THBS1	thrombospondin 1	-1.974	2.038	Down
283876	LINC00921	long intergenic non-protein coding RNA 921	-1.475	2.442	Down
9665	MARF1	meiosis regulator and mRNA stability factor 1	-0.591	1.4	Down
10261	IGSF6	immunoglobulin superfamily member 6	-2.188	1.535	Down
283897	C16orf54	chromosome 16 open reading frame 54	-1.152	7.793	Down
83719	YPEL3	yippee like 3	-0.756	2.356	Down
85407	NKD1	NKD inhibitor of WNT signaling pathway 1	-1.62	2.845	Down
64174	DPEP2	dipeptidase 2	-1.734	9.369	Down
333929	SNAI3	snail family transcriptional repressor 3	-1.18	3.125	Down
115992	RNF166	ring finger protein 166	-0.773	1.338	Down
37	ACADVL	acyl-CoA dehydrogenase very long chain	-0.805	3.042	Down

56985	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent	-0.902	1.766	Down
400581	GRAPL	GRB2 related adaptor protein like	-1.247	1.416	Down
3690	ITGB3	integrin subunit beta 3	-3.76	6.025	Down
81558	FAM117A	family with sequence similarity 117 member A	-0.456	2.256	Down
388403	YPEL2	yippee like 2	-1.44	1.451	Down
8313	AXIN2	axin 2	-0.412	1.404	Down
124599	CD300LB	CD300 molecule like family member b	-4.69	3.123	Down
10871	CD300C	CD300c molecule	-2.574	1.326	Down
649446	DLGAP1-AS1	DLGAP1 antisense RNA 1	-0.865	1.416	Down
753	LDLRAD4	low density lipoprotein receptor class A domain containing 4	-1.028	4.554	Down
10449	ACAA2	acetyl-CoA acyltransferase 2	-0.447	2.364	Down
5055	SERPINB2	serpin family B member 2	-5.479	5.322	Down
199675	MCEMP1	mast cell expressed membrane protein 1	-5.428	4.554	Down
374879	ZNF699	zinc finger protein 699	-0.567	1.491	Down
10365	KLF2	KLF transcription factor 2	-1.433	7.893	Down
27106	ARRDC2	arrestin domain containing 2	-1.207	3.959	Down
126364	LRRC25	leucine rich repeat containing 25	-5.779	2.953	Down
148113	CILP2	cartilage intermediate layer protein 2	-1.703	3.596	Down
9170	LPAR2	lysophosphatidic acid receptor 2	-0.927	7.893	Down
126375	ZNF792	zinc finger protein 792	-0.863	1.443	Down
53822	FXYD7	FXYD domain containing ion transport regulator 7	-0.943	1.437	Down
57677	ZFP14	ZFP14 zinc finger protein	-0.581	2.235	Down
57711	ZNF529	zinc finger protein 529	-0.514	2.569	Down
25850	ZNF345	zinc finger protein 345	-0.632	1.422	Down
163087	ZNF383	zinc finger protein 383	-0.634	2.096	Down
728	C5AR1	complement C5a receptor 1	-4.193	7.544	Down
1E+08	SIGLEC14	sialic acid binding Ig like lectin 14	-2.786	1.691	Down

55769	ZNF83	zinc finger protein 83	-0.585	1.56	Down
11027	LILRA2	leukocyte immunoglobulin like receptor A2	-2.904	1.379	Down
54498	SMOX	spermine oxidase	-1.915	3.961	Down
7056	THBD	thrombomodulin	-4.121	9.875	Down
22918	CD93	CD93 molecule	-1.31	1.419	Down
9935	MAFB	MAF bZIP transcription factor B	-3.411	4.289	Down
4318	MMP9	matrix metallopeptidase 9	-3.317	1.822	Down
1.1E+08	SLC12A5-AS1	SLC12A5 and MMP9 antisense RNA 1	-3.582	3.226	Down
56937	PMEPA1	prostate transmembrane protein, androgen induced 1	-2.013	1.438	Down
1.01E+08	MHENCR	melanoma highly expressed competing endogenous lncRNA for miR-425 and miR-489	-1.295	4.617	Down
4987	OPRL1	opioid related nociceptin receptor 1	-2.087	1.874	Down
645426	TMEM191C	transmembrane protein 191C	-1.58	1.475	Down
3985	LIMK2	LIM domain kinase 2	-0.745	3.287	Down
113791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	-2.269	24.659	Down
8911	CACNA1I	calcium voltage-gated channel subunit alpha1 I	-1.059	3.794	Down
340527	NHSL2	NHS like 2	-1.703	2.803	Down
1831	TSC22D3	TSC22 domain family member 3	-3.548	34.987	Down
340547	VSIG1	V-set and immunoglobulin domain containing 1	-1.957	6.363	Down
2239	GPC4	glypican 4	-3.998	3.652	Down
203523	ZNF449	zinc finger protein 449	-0.709	1.631	Down
10726	NUDC	nuclear distribution C, dynein complex regulator	0.445	1.438	Up
3595	IL12RB2	interleukin 12 receptor subunit beta 2	1.699	1.399	Up
9898	UBAP2L	ubiquitin associated protein 2 like	0.435	1.392	Up
913	CD1E	CD1e molecule	4.948	1.4	Up
6846	XCL2	X-C motif chemokine ligand 2	1.653	2.285	Up
6375	XCL1	X-C motif chemokine ligand 1	2.013	1.633	Up
356	FASLG	Fas ligand	2.055	7.893	Up
3586	IL10	interleukin 10	2.515	4.865	Up
29949	IL19	interleukin 19	2.345	3.123	Up
386597	GRASLND	glycosaminoglycan regulatory associated long non-coding RNA	0.753	1.416	Up
10971	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta	0.512	1.701	Up
348654	GEN1	GEN1 Holliday junction 5' flap endonuclease	0.515	1.438	Up

25940	FAM98A	family with sequence similarity 98 member A	0.591	1.325	Up
87178	PNPT1	polyribonucleotide nucleotidyltransferase 1	0.509	1.331	Up
5899	RALB	RAS like proto-oncogene B	0.735	2.96	Up
843	CASP10	caspase 10	0.545	2.138	Up
940	CD28	CD28 molecule	0.605	1.786	Up
3431	SP110	SP110 nuclear body protein	0.65	1.516	Up
5707	PSMD1	proteasome 26S subunit, non-ATPase 1	0.563	4.799	Up
55081	IFT57	intraflagellar transport 57	0.857	2.289	Up
79413	ZBED2	zinc finger BED-type containing 2	1.976	4.795	Up
4171	MCM2	minichromosome maintenance complex component 2	0.702	3.042	Up
28976	ACAD9	acyl-CoA dehydrogenase family member 9	0.495	2.182	Up
5359	PLSCR1	phospholipid scramblase 1	0.879	1.755	Up
8743	TNFSF10	TNF superfamily member 10	1.585	3.369	Up
5708	PSMD2	proteasome 26S subunit ubiquitin receptor, non-ATPase 2	0.412	2.072	Up
152579	SCFD2	sec1 family domain containing 2	0.678	1.69	Up
3627	CXCL10	C-X-C motif chemokine ligand 10	3.232	1.443	Up
10855	HPSE	heparanase	0.699	6.096	Up
59067	IL21	interleukin 21	2.297	1.844	Up
1.05E+08	LINC02365	long intergenic non-protein coding RNA 2365	2.066	1.442	Up
57491	AHRR	aryl hydrocarbon receptor repressor	0.955	1.943	Up
5810	RAD1	RAD1 checkpoint DNA exonuclease	0.439	1.681	Up
5734	PTGER4	prostaglandin E receptor 4	1.123	7.893	Up
5019	OXCT1	3-oxoacid CoA-transferase 1	0.502	1.854	Up
8507	ENC1	ectodermal-neural cortex 1	2.051	4.874	Up
80315	CPEB4	cytoplasmic polyadenylation element binding protein 4	0.634	4.25	Up
94081	SFXN1	sideroflexin 1	0.737	1.584	Up
1212	CLTB	clathrin light chain B	0.52	1.338	Up
26262	TSPAN17	tetraspanin 17	0.651	3.71	Up
3182	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	0.599	1.998	Up
203068	TUBB	tubulin beta class I	0.591	3.088	Up
6891	TAP2	transporter 2, ATP binding cassette subfamily B member	0.613	1.525	Up
6890	TAP1	transporter 1, ATP binding cassette subfamily B member	0.865	1.631	Up
1.05E+08	TAGAP-AS1	TAGAP antisense RNA 1	1.123	3.062	Up
117289	TAGAP	T cell activation RhoGTPase activating protein	1.215	3.104	Up
3181	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	0.557	1.582	Up
2783	GNB2	G protein subunit beta 2	0.39	1.302	Up
168537	GIMAP7	GTPase, IMAP family member 7	0.743	1.496	Up
4609	MYC	MYC proto-oncogene, bHLH transcription factor	0.882	1.889	Up
29126	CD274	CD274 molecule	1.448	1.408	Up
401563	LINC02908	long intergenic non-protein coding RNA 2908	1.232	1.867	Up
2529	FUT7	fucosyltransferase 7	1.402	2.569	Up
10383	TUBB4B	tubulin beta 4B class IVb	0.755	1.343	Up
1763	DNA2	DNA replication helicase/nuclease 2	0.871	1.302	Up
3098	HK1	hexokinase 1	0.405	3.041	Up
79751	SLC25A22	solute carrier family 25 member 22	0.675	1.562	Up

2237	FEN1	flap structure-specific endonuclease 1	0.633	1.908	Up
113130	CDCA5	cell division cycle associated 5	0.962	2.655	Up
8726	EED	embryonic ectoderm development	0.544	1.945	Up
1111	CHEK1	checkpoint kinase 1	0.817	1.908	Up
57102	C12orf4	chromosome 12 open reading frame 4	0.602	1.998	Up
5777	PTPN6	protein tyrosine phosphatase non-receptor type 6	0.776	4.64	Up
5213	PFKM	phosphofructokinase, muscle	0.444	1.869	Up
10376	TUBA1B	tubulin alpha 1b	0.714	1.404	Up
3458	IFNG	interferon gamma	4.101	5.295	Up
4939	OAS2	2'-5'-oligoadenylate synthetase 2	0.947	1.998	Up
27198	HCAR1	hydroxycarboxylic acid receptor 1	2.513	1.701	Up
4008	LMO7	LIM domain 7	0.881	1.487	Up
7027	TFDP1	transcription factor Dp-1	0.523	2.135	Up
10598	AHSA1	activator of HSP90 ATPase activity 1	0.434	1.443	Up
30844	EHD4	EH domain containing 4	0.839	1.922	Up
5371	PML	PML nuclear body scaffold	0.536	1.416	Up
6627	SNRPA1	small nuclear ribonucleoprotein polypeptide A'	0.506	1.687	Up
79801	SHCBP1	SHC binding and spindle associated 1	1.25	1.537	Up
60528	ELAC2	elaC ribonuclease Z 2	0.322	1.323	Up
5717	PSMD11	proteasome 26S subunit, non-ATPase 11	0.392	1.69	Up
6351	CCL4	C-C motif chemokine ligand 4	2.389	2.48	Up
5709	PSMD3	proteasome 26S subunit, non-ATPase 3	0.544	1.572	Up
30009	TBX21	T-box transcription factor 21	2.182	7.893	Up
117246	FTSJ3	FtsJ RNA 2'-O-methyltransferase 3	0.569	1.863	Up
3959	LGALS3BP	galectin 3 binding protein	0.736	3.103	Up
8740	TNFSF14	TNF superfamily member 14	0.83	1.331	Up
4670	HNRNPM	heterogeneous nuclear ribonucleoprotein M	0.496	1.535	Up
684	BST2	bone marrow stromal cell antigen 2	0.909	1.699	Up
10452	TOMM40	translocase of outer mitochondrial membrane 40	0.642	1.351	Up
5536	PPP5C	protein phosphatase 5 catalytic subunit	0.49	1.615	Up
8775	NAPA	NSF attachment protein alpha	0.516	4.512	Up
160	AP2A1	adaptor related protein complex 2 subunit alpha 1	0.345	1.516	Up
26121	PRPF31	pre-mRNA processing factor 31	0.417	1.689	Up
27338	UBE2S	ubiquitin conjugating enzyme E2 S	0.763	1.353	Up
11237	RNF24	ring finger protein 24	0.716	2.847	Up
25939	SAMHD1	SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase 1	0.524	1.675	Up
85379	KIAA1671	KIAA1671	1.222	1.638	Up
57168	ASPHD2	aspartate beta-hydroxylase domain containing 2	0.516	1.516	Up
2130	EWSR1	EWS RNA binding protein 1	0.494	3.245	Up
162	AP1B1	adaptor related protein complex 1 subunit beta 1	0.5	1.631	Up
91370	LIF-AS2	LIF antisense RNA 2	1.685	4.426	Up
4174	MCM5	minichromosome maintenance complex component 5	0.679	2.676	Up
50	ACO2	aconitase 2	0.387	1.516	Up
27351	DESI1	desumoylating isopeptidase 1	0.459	1.671	Up
92745	SLC38A5	solute carrier family 38 member 5	0.669	2.442	Up
27316	RBMX	RNA binding motif protein X-linked	0.399	1.789	Up

Table s6: Common

GeneID	Symbol	Description	padj	pvalue	log2(fold change)(Control vs TB-PE)	Set	-log10(Pvalue)(Control vs TB-PE)	log2(fold change)(Control vs Activated)	Set	-log10(Pvalue)(Control vs Activated)	log2(fold change)(TB-PE vs Activated)	Set	-log10(Pvalue)(TB-PE vs Activated)	log2(fold change) (TB-PE vs Activated_TB-PE)	Set	-log10(Pvalue)(TB-PE vs Activated_TB-PE)	log2(fold change) (Activated vs Activated_TB-PE)	Set	-log10(Pvalue)(Activated vs Activated_TB-PE)
2268	FGR	FGR proto-oncogene, Src family tyrosine kinase	7.09E-07	1.38E-07	-1.95	Down	1.408	1.632	Up	1.818	3.582	Up	7.87	1.461	Up	1.405	-2.122	Down	1.554
850288	SNHG12	small nucleolar RNA host gene 12	1.20E-11	1.24E-12	-1.241	Down	1.744	1.437	Up	3.79	2.678	Up	12.628	1.429	Up	3.58	-1.249	Down	1.559
356	FASLG	Fas ligand	1.04E-31	1.78E-33	1.209	Up	2.08	-2.374	Down	13.398	-3.583	Down	28.752	-1.528	Down	4.911	2.055	Up	7.893
58999	RALB	RAS like proto-oncogene B	2.32E-54	8.06E-57	0.795	Up	3.58	-1.739	Down	24.008	-2.534	Down	50.175	-1.799	Down	24.383	0.735	Up	2.96
78552	CXCR4	C-X-C motif chemokine receptor 4	1.85E-18	9.28E-20	-1.382	Down	4.419	1.163	Up	4.322	2.545	Up	19.759	0.724	Up	1.68	-1.821	Down	7.963
57077	PSMD1	proteasome 26S subunit, non-ATPase 1	#########	#########	0.336	Up	1.325	-1.818	Down	66.739	-2.154	Down	93.326	-1.591	Down	49.17	0.563	Up	4.799
24617575	CNOT6L	CCR4-NOT transcription complex subunit 6 like	1.75E-31	3.04E-33	-0.837	Down	2.633	1.597	Up	13.877	2.434	Up	32.139	1.465	Up	11.264	-0.969	Down	3.63
108555	HPSE	heparanase	1.39E-18	6.89E-20	0.593	Up	4.266	-0.456	Down	3.778	-1.049	Down	18.068	-0.35	Down	1.919	0.699	Up	6.096
16011	DAB2	DAB adaptor protein 2	1.22E-08	1.83E-09	-1.722	Down	1.448	1.86	Up	2.714	3.581	Up	9.577	1.644	Up	2.194	-1.937	Down	1.539

68891	TAP2	transporter 2, ATP binding cassette subfamily B member	2.09E-39	2.16E-41	0.582	Up	1.419	-1.646	Down	18.973	-2.227	Down	34.614	-1.614	Down	17.623	0.613	Up	1.525
68900	TAP1	transporter 1, ATP binding cassette subfamily B member	6.87E-30	1.32E-31	0.907	Up	1.968	-1.892	Down	13.321	-2.798	Down	28.991	-1.933	Down	13.4	0.865	Up	1.631
104057	GPNMB	glycoprotein nmb	4.15E-70	5.85E-73	-5.261	Down	34.562	1.635	Up	2.88	6.896	Up	51.256	4.398	Up	25.16	-2.498	Down	4.65
51666	PDK4	pyruvate dehydrogenase kinase 4	7.10E-22	2.54E-23	-5.369	Down	7.863	4.17	Up	2.041	9.539	Up	10.659	3.955	Up	5.862	-5.584	Down	2.132
40223	LPL	lipoprotein lipase	3.16E-28	6.77E-30	-4.232	Down	11.174	3.473	Up	2.814	7.705	Up	13.641	2.006	Up	3.364	-5.699	Down	5.542
63883	SDC2	syndecan 2	5.75E-17	3.38E-18	-1.951	Down	2.098	3.481	Up	8.932	5.432	Up	21.645	1.902	Up	3.009	-3.531	Down	7.188
104188	SPON1	spondin 1	##########	##########	0.942	Up	5.921	5.407	Up	192.285	4.465	Up	129.43	3.71	Up	91.073	-0.755	Down	1.835
236422	SNHG1	small nucleolar RNA host gene 1	9.62E-16	6.28E-17	-0.939	Down	1.33	1.636	Up	6.833	2.575	Up	16.603	1.518	Up	5.637	-1.057	Down	1.631
928	CD9	CD9 molecule	4.29E-80	3.53E-83	-1.729	Down	17.398	1.824	Up	14.432	3.554	Up	58.774	2.685	Up	35.486	-0.868	Down	1.608
571161	PELI2	pellino E3 ubiquitin protein ligase family member 2	7.60E-15	5.55E-16	-0.781	Down	1.336	1.296	Up	6.121	2.076	Up	15.437	1.209	Up	5.124	-0.867	Down	1.516
1.0	LIN	long intergenic non-	1.9	1.4	-2.895	Do	4.393	2.312	Up	2.245	5.207	Up	11.242	1.827	Up	2.461	-3.379	Do	3.05

5E+08	C023200	protein coding RNA 2320	3E-14	6E-15		wn												wn	
1452000	LINC002239	long intergenic non-protein coding RNA 239	1.05E-21	3.82E-23	-1.962	Down	7.043	1.223	Up	2.97	3.186	Up	19.959	1.592	Up	5.444	-1.594	Down	3.179
83133	AXIN2	axin 2	2.03E-81	1.55E-84	0.571	Up	4.393	2.011	Up	65.781	1.439	Up	33.005	1.027	Up	15.971	-0.412	Down	1.404
46700	HNRNPM	heterogeneous nuclear ribonucleoprotein M	2.83E-28	6.04E-30	0.495	Up	1.645	-1.068	Down	12.362	-1.563	Down	26.288	-1.067	Down	11.828	0.496	Up	1.535
1263264	LRRC25	leucine rich repeat containing 25	5.24E-29	1.07E-30	-3.845	Down	8.711	4.761	Up	3.06	8.606	Up	10.199	2.827	Up	6.332	-5.779	Down	2.953
538222	FXYD7	FXYD domain containing ion transport regulator 7	3.89E-35	5.17E-37	-0.801	Down	1.488	2.301	Up	16.65	3.102	Up	30.733	2.158	Up	15.046	-0.943	Down	1.437
728	C5AR1	complement C5a receptor 1	2.64E-19	1.20E-20	-2.817	Down	4.904	3.111	Up	5.299	5.928	Up	19.25	1.735	Up	2.499	-4.193	Down	7.544
99355	MAFB	MAF bZIP transcription factor B	1.94E-60	4.57E-63	-3.189	Down	17.411	3.654	Up	7.073	6.843	Up	25.618	3.432	Up	18.834	-3.411	Down	4.289
21130	EWSR1	EWS RNA binding protein 1	7.61E-60	1.83E-62	0.419	Up	2.212	-1.224	Down	28.695	-1.643	Down	51.52	-1.15	Down	24.428	0.494	Up	3.245
1133791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	1.02E-66	1.67E-69	-0.733	Down	1.771	3.188	Up	52.496	3.92	Up	79.999	1.651	Up	13.723	-2.269	Down	24.659
18311	TSC22	TSC22 domain family	8.08	1.57	-1.838	Down	8.334	3.616	Up	38.153	5.454	Up	87.743	1.906	Up	10.446	-3.548	Down	34.987

	2D3	member 3	E-64	E-66															

Table s7

27 common elements in "SARS Cov-2" and "HIV-1/TB ":
FASLG
SPON1
PDK4
CD9
GPNMB
EWSR1
PIK3IP1
LPL
HNRNPM
C5AR1
SDC2
CXCR4
MAFB
TAP1
PELI2
PSMD1
AXIN2
DAB2
TSC22D3
FXYD7
TAP2
FGR
HPSE
RALB
LRRC25
SNHG12
SNHG1

Table s8

Category	Term	Pathway	Count	Genes	Fold Enrichment	Bonferroni	Benjamini	FDR
Biological Process	GO:0001934	positive regulation of protein phosphorylation	5	DAB2, RALB, GPNMB, PELI2, AXIN2	18.42233	0.037721	0.038448	0.038448
Biological Process	GO:0030335	positive regulation of cell migration	4	FGR, DAB2, GPNMB, CXCR4	10.5784	0.823425	0.576404	0.576404
Biological Process	GO:0019885	antigen processing and presentation of endogenous peptide antigen via MHC class I	2	TAP2, TAP1	151.8	0.981101	0.985901	0.985901
Biological Process	GO:0006915	apoptotic process	4	DAB2, RALB, CXCR4, FASLG	5.11973	0.999995	1	1
Biological Process	GO:0031623	receptor internalization	2	RALB, CD9	29.19231	1	1	1
Biological Process	GO:0007165	signal transduction	5	FGR, RALB, GPNMB, C5AR1, FASLG	3.060484	1	1	1
Biological Process	GO:0010718	positive regulation of epithelial to mesenchymal transition	2	DAB2, AXIN2	27.10714	1	1	1
Biological Process	GO:0015031	protein transport	3	DAB2, TAP2, TAP1	5.486747	1	1	1
Cellular Component	GO:0005886	plasma membrane	15	RALB, SDC2, C5AR1, TAP1, CXCR4, LPL, FASLG, AXIN2, FGR, DAB2, GPNMB, PIK3IP1, EWSR1, CD9, FXYD7	2.075087	0.232602	0.188654	0.188654
Cellular Component	GO:0042825	TAP complex	2	TAP2, TAP1	386.7963	0.348519	0.188654	0.188654
Cellular	GO:0043202	lysosomal lumen	3	SDC2, FASLG, HPSE	23.68141	0.433248	0.188654	0.188654

Component								
Cellular Component	GO:0016020	membrane	13	LRRC25, SDC2, PELI2, TAP2, TAP1, CXCR4, FASLG, HNRNPM, GPNMB, CD9, PSMD1, FXYD7, HPSE	1.992215	0.637717	0.212955	0.212955
Cellular Component	GO:0042824	MHC class I peptide loading complex	2	TAP2, TAP1	154.7185	0.657478	0.212955	0.212955
Cellular Component	GO:0009897	external side of plasma membrane	3	CD9, CXCR4, FASLG	5.409738	0.999873	0.879986	0.879986
Molecular Function	GO:0005515	protein binding	24	LRRC25, SPON1, RALB, TSC22D3, SDC2, PELI2, TAP2, TAP1, CXCR4, LPL, FASLG, AXIN2, FGR, HNRNPM, DAB2, MAFB, GPNMB, PIK3IP1, EWSR1, PDK4, CD9, PSMD1, FXYD7, HPSE	1.453022	0.06087	0.062781	0.062781
Molecular Function	GO:0015433	ABC-type peptide antigen transporter activity	2	TAP2, TAP1	514.7733	0.308919	0.107635	0.107635
Molecular Function	GO:1904680	peptide transmembrane transporter activity	2	TAP2, TAP1	514.7733	0.308919	0.107635	0.107635
Molecular Function	GO:0046978	TAP1 binding	2	TAP2, TAP1	308.864	0.459826	0.107635	0.107635
Molecular Function	GO:0031625	ubiquitin protein ligase binding	4	RALB, PSMD1, CXCR4, AXIN2	9.931318	0.476869	0.107635	0.107635
Molecular Function	GO:0023029	MHC class Ib protein binding	2	TAP2, TAP1	220.6171	0.57779	0.122644	0.122644
Molecular Function	GO:0005102	signaling receptor binding	4	FGR, PIK3IP1, LPL, FASLG	8.370298	0.645147	0.128831	0.128831
Molecular Function	GO:0042605	peptide antigen binding	2	TAP2, TAP1	24.13	0.999627	0.843169	0.843169

KEGG Pathway	hsa05170	Human immunodeficiency virus 1 infection	4	TAP2, TAP1, CXCR4, FASLG	9.222744	0.463895	0.365579	0.365579
KEGG Pathway	hsa05340	Primary immunodeficiency	2	TAP2, TAP1	25.84795	0.998032	1	1
KEGG Pathway	hsa02010	ABC transporters	2	TAP2, TAP1	21.82716	0.999377	1	1
Reactome Pathway	R-HSA-1236974	ER-Phagosome pathway	3	TAP2, TAP1, PSMD1	16.80455	0.978912	1	1
Reactome Pathway	R-HSA-1236975	Antigen processing-Cross presentation	3	TAP2, TAP1, PSMD1	14.4039	0.99439	1	1
Reactome Pathway	R-HSA-5663205	Infectious disease	6	FGR, SDC2, CD9, PSMD1, CXCR4, FXYD7	2.959705	0.999995	1	1
Reactome Pathway	R-HSA-983170	Antigen Presentation: Folding, assembly and peptide loading of class I MHC	2	TAP2, TAP1	34.76803	1	1	1
Reactome Pathway	R-HSA-6798695	Neutrophil degranulation	4	FGR, C5AR1, PSMD1, HPSE	4.201136	1	1	1
Reactome Pathway	R-HSA-168256	Immune System	8	FGR, C5AR1, PELI2, TAP2, TAP1, PSMD1, FASLG, HPSE	1.96353	1	1	1
Reactome Pathway	R-HSA-162582	Signal Transduction	9	HNRNPM, RALB, GPNMB, C5AR1, PDK4, PSMD1, CXCR4, FASLG, AXIN2	1.745759	1	1	1

Table s9

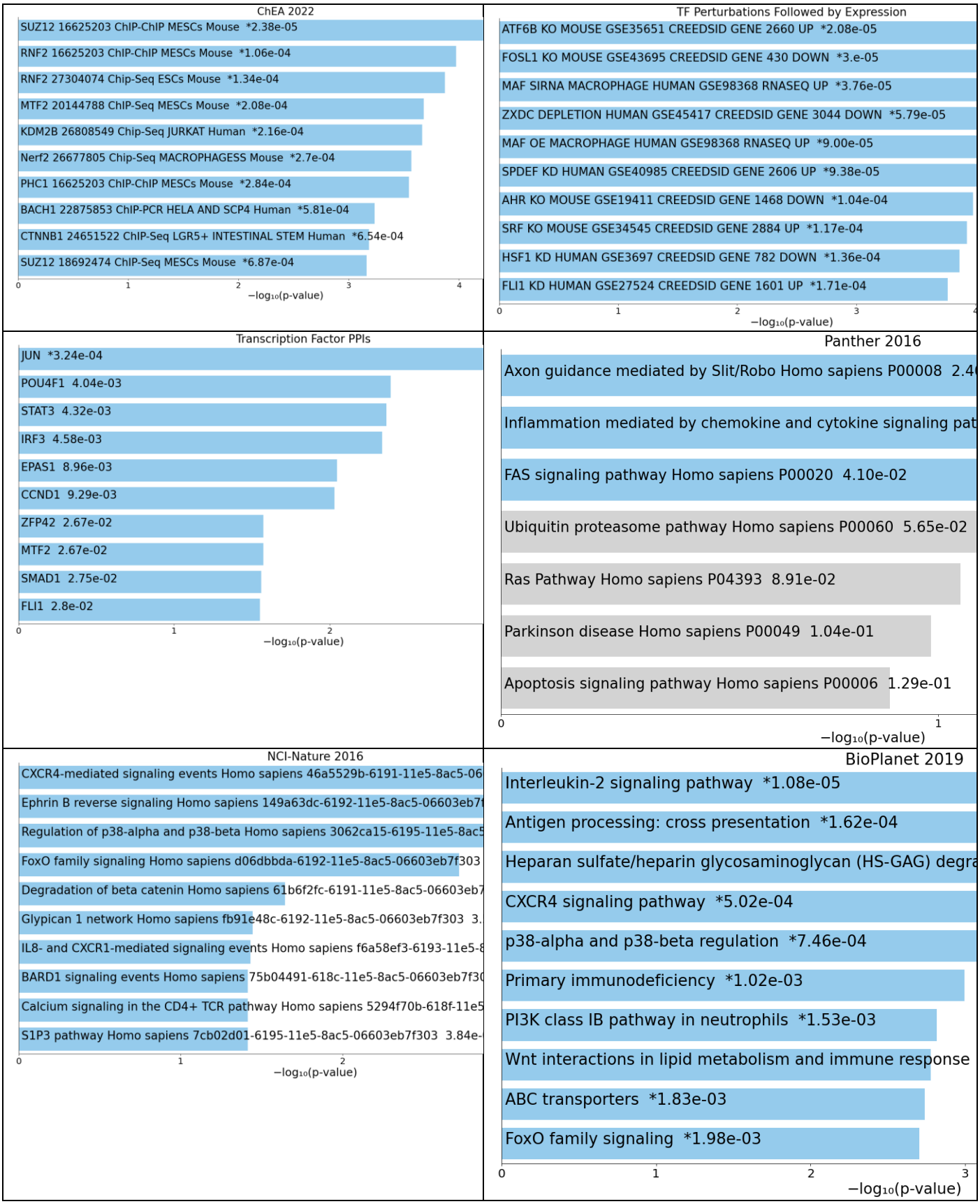
Annotation Cluster 1	Enrichment Score: 1.7209275840680245											
Category	**Term**	**Count**	**%**	**PValue**	**Genes**	**List Total**	**Pop Hits**	**Pop Total**	**Fold Enrichment**	**Bonferroni**	**Benjamini**	**FDR**
UP_KW_CELLULAR_COMPONENT	KW-0472~Membrane	19	70.37037	0.004343	LRRC25, RALB, SDC2, PELI2, C5AR1, TAP2, TAP1, CXCR4, LPL, FASLG, FGR, DAB2, GPNMB, PIK3IP1, EWSR1, CD9, PSMD1, FXYD7, HPSE	25	8340	17942	1.635002	0.083369	0.086862	0.086862
UP_SEQ_FEATURE	TOPO_DOM:Cytoplasmic	11	40.74074	0.008624	LRRC25, GPNMB, PIK3IP1, SDC2, C5AR1, TAP2, CD9, TAP1, CXCR4, FXYD7, FASLG	25	3901	20569	2.32001	0.93524	0.681312	0.681312
GOTERM_CC_DIRECT	GO:0016020~membrane	13	48.14815	0.011737	LRRC25, SDC2, PELI2, TAP2, TAP1, CXCR4, FASLG, HNRNPM, GPNMB, CD9, PSMD1, FXYD7, HPSE	27	5048	20887	1.992215	0.637717	0.212955	0.212955
UP_SEQ_FEATURE	TOPO_DOM:Extracellular	9	33.33333	0.016632	LRRC25, GPNMB, PIK3IP1, SDC2, C5AR1, CD9, CXCR4, FXYD7, FASLG	25	2992	20569	2.47488	0.995008	1	1
UP_SEQ_FEATURE	TRANSMEM:Helical	12	44.44444	0.032092	LRRC25, GPNMB, PIK3IP1, SDC2, PELI2, TAP2, CD9, TAP1, PSMD1, CXCR4, FXYD7, FASLG	25	5446	20569	1.812912	0.999967	1	1
UP_KW_DOMAIN	KW-1133~Transmembrane helix	13	48.14815	0.059617	LRRC25, SDC2, PELI2, C5AR1, TAP2, TAP1, CXCR4, FASLG, GPNMB, PIK3IP1, CD9, PSMD1, FXYD7	21	5882	14597	1.536253	0.52175	0.385364	0.385364
UP_KW_DOMAIN	KW-0812~Transmembrane	13	48.14815	0.064227	LRRC25, SDC2, PELI2, C5AR1, TAP2, TAP1, CXCR4, FASLG, GPNMB, PIK3IP1, CD9, PSMD1, FXYD7	21	5941	14597	1.520996	0.549138	0.385364	0.385364
Annotation Cluster 2	Enrichment Score: 1.3054230950558041											
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_MF_DIRECT	GO:0005102~signaling receptor binding	4	14.81481	0.010411	FGR, PIK3IP1, LPL, FASLG	25	369	19304	8.370298	0.645147	0.128831	0.128831
GOTERM_CC_DIRECT	GO:0005615~extracellular space	6	22.22222	0.010232	SPON1, PIK3IP1, CD9, LPL, FASLG, HPSE	27	2033	20887	2.283107	0.999907	0.879986	0.879986
GOTERM_CC_DIRECT	GO:0005576~extracellular region	6	22.22222	0.113835	FGR, CD9, LPL, PSMD1, FASLG, HPSE	27	2101	20887	2.209213	0.999969	0.899986	0.899986
Annotation Cluster 3	Enrichment Score: 1.1227376478882118											
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_BP_DIRECT	GO:0006915~apoptotic process	4	14.81481	0.038014	DAB2, RALB, CXCR4, FASLG	26	593	19734	5.11973	0.999995	1	1
KEGG_PATHWAY	hsa05200:Pathways in cancer	4	14.81481	0.078908	RALB, CXCR4, FASLG, AXIN2	18	533	8840	3.685637	0.999076	1	1
GOTERM_CC_DIRECT	GO:0070062~extracellular exosome	6	22.22222	0.142796	FGR, HNRNPM, RALB, CD9, CXCR4, FASLG	27	2258	20887	2.055605	0.999998	1	1
Annotation Cluster 4	Enrichment Score: 1.0724748086070106											

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
KEGG_PATHWAY	hsa05170:Human immunodeficiency virus 1 infection	4	14.814481	0.007308	TAP2, TAP1, CXCR4, FASLG	18	213	8840	9.222744	0.463895	0.365579	0.365579
KEGG_PATHWAY	hsa05163:Human cytomegalovirus infection	4	14.814481	0.008602	TAP2, TAP1, CXCR4, FASLG	18	226	8840	8.692232	0.520169	0.365579	0.365579
UP_SEQ_FEATURE	TRANSMEM:Helical; Name=7	4	14.814481	0.009775	C5AR1, TAP2, TAP1, CXCR4	25	954	20569	3.449727	1	1	1
UP_SEQ_FEATURE	TRANSMEM:Helical; Name=6	4	14.814481	0.115222	C5AR1, TAP2, TAP1, CXCR4	25	1026	20569	3.207641	1	1	1
UP_SEQ_FEATURE	TRANSMEM:Helical; Name=5	4	14.814481	0.116731	C5AR1, TAP2, TAP1, CXCR4	25	1032	20569	3.188992	1	1	1
UP_SEQ_FEATURE	TRANSMEM:Helical; Name=3	4	14.814481	0.122074	C5AR1, TAP2, TAP1, CXCR4	25	1053	20569	3.125394	1	1	1
UP_SEQ_FEATURE	TRANSMEM:Helical; Name=4	4	14.814481	0.122845	C5AR1, TAP2, TAP1, CXCR4	25	1056	20569	3.116515	1	1	1
UP_SEQ_FEATURE	TRANSMEM:Helical; Name=1	4	14.814481	0.127772	C5AR1, TAP2, TAP1, CXCR4	25	1075	20569	3.061433	1	1	1
UP_SEQ_FEATURE	TRANSMEM:Helical; Name=2	4	14.814481	0.128033	C5AR1, TAP2, TAP1, CXCR4	25	1076	20569	3.058587	1	1	1
KEGG_PATHWAY	hsa05168:Herpes simplex virus 1 infection	3	11.111111	0.265566	TAP2, TAP1, FASLG	18	522	8840	2.822478	1	1	1
UP_KW_BIOLOGICAL_PROCESS	KW-0945~Host-virus interaction	3	11.111111	0.296249	TAP2, TAP1, CXCR4	19	690	11450	2.620137	0.999947	1	1
Annotation Cluster 5	Enrichment Score: 0.7420146049745282											
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
UP_KW_PTM	KW-0325~Glycoprotein	12	44.444444	0.006073 3	LRRC25, SPON1, GPNMB, PIK3IP1, SDC2, C5AR1, CD9, LPL, CXCR4, FXYD7, FASLG, HPSE	22	4813	14252	1.615171	0.609309	0.670528	0.670528
GOTERM_CC_DIRECT	GO:0005615~extracellular space	6	22.222222	0.102324	SPON1, PIK3IP1, CD9, LPL, FASLG, HPSE	27	2033	20887	2.283107	0.999907	0.879986	0.879986
UP_SEQ_FEATURE	CARBOHYD:N-linked (GlcNAc...) asparagine	9	33.333333	0.124386	LRRC25, SPON1, GPNMB, C5AR1, CD9, LPL, CXCR4, FASLG, HPSE	25	4422	20569	1.674545	1	1	1
UP_KW_BIOLOGICAL_PROCESS	KW-0130~Cell adhesion	3	11.111111	0.17975	SPON1, CD9, HPSE	19	492	11450	3.674583	0.996105	1	1
UP_KW_CELLULAR_COMPONENT	KW-0964~Secreted	5	18.518852	0.332358	SPON1, CD9, LPL, FASLG, HPSE	25	2180	17942	1.646055	0.99969	1	1
UP_KW_PTM	KW-1015~Disulfide bond	8	29.629633	0.346177	SPON1, PIK3IP1, C5AR1, CD9, LPL, CXCR4, FASLG, HPSE	22	3906	14252	1.326817	0.998294	0.867911	0.867911

UP_KW_DOMAIN	KW-0732~Signal	8	29.629963	0.40008 1	LRRC25, SPON1, GPNMB, PIK3IP1, SDC2, CD9, LPL, HPSE	21	4410	14597	1.260944	0.997827	1	1
Annotation Cluster 6	Enrichment Score: 0.5842574176163582											
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_BP_DIRECT	GO:0015031~protein transport	3	11.111111	0.0964155	DAB2, TAP2, TAP1	26	415	19734	5.486747	1	1	1
UP_KW_BIOLOGICAL_PROCESS	KW-0653~Protein transport	3	11.111111	0.271206	DAB2, TAP2, TAP1	19	648	11450	2.789961	0.999858	1	1
UP_KW_BIOLOGICAL_PROCESS	KW-0813~Transport	4	14.814481	0.675743	DAB2, TAP2, TAP1, FXYD7	19	2124	11450	1.134899	1	1	1
Annotation Cluster 7	Enrichment Score: 0.5254842100972762											
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
UP_KW_LIGAND	KW-0547~Nucleotide-binding	5	18.518852	0.205876	FGR, RALB, TAP2, PDK4, TAP1	10	1879	6947	1.848559	0.900256	0.941035	0.941035
UP_KW_LIGAND	KW-0067~ATP-binding	4	14.814481	0.282311	FGR, TAP2, PDK4, TAP1	10	1443	6947	1.925771	0.963745	0.941035	0.941035
GOTERM_MF_DIRECT	GO:0005524~ATP binding	4	14.814481	0.299409	FGR, TAP2, PDK4, TAP1	25	1541	19304	2.004309	1	1	1
UP_KW_BIOLOGICAL_PROCESS	KW-0391~Immunity	3	11.111111	0.454429	FGR, TAP2, TAP1	19	963	11450	1.877357	1	1	1
Annotation Cluster 8	Enrichment Score: 0.20549782908453454											
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
UP_KW_MOLECULAR_FUNCTION	KW-0678~Repressor	3	11.111111	0.189926	MAFB, EWSR1, FASLG	16	636	11889	3.505012	0.98172	1	1
UP_KW_BIOLOGICAL_PROCESS	KW-0805~Transcription regulation	3	11.111111	0.9182889	MAFB, EWSR1, FASLG	19	2414	11450	0.748921	1	1	1
UP_KW_BIOLOGICAL_PROCESS	KW-0804~Transcription	3	11.111111	0.926677	MAFB, EWSR1, FASLG	19	2483	11450	0.728109	1	1	1
UP_KW_CELLULAR_COMPONENT	KW-0539~Nucleus	6	22.222222	0.9321218	HNRNPM, MAFB, EWSR1, TSC22D3, FASLG, HPSE	25	5858	17942	0.735077	1	1	1
Annotation Cluster 9	Enrichment Score: 0.05731737974098145											
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_CC_DIRECT	GO:0005654~nucleoplasm	5	18.518852	0.767731	FGR, HNRNPM, EWSR1, PSMD1, HPSE	27	4030	20887	0.959792	1	1	1

UP_KW_PTM	KW-0007~Acetylation	4	14.8148481	0.920348	HNRNPM, DAB2, EWSR1, PSMD1	22	3511	14252	0.738044	1	1	1
UP_KW_DOMAIN	KW-0677~Repeat	5	18.518852	0.95307	LRRC25, HNRNPM, SPON1, EWSR1, PSMD1	21	5064	14597	0.68631	1	1	1

Table s10


ChEA 2022
SUZ12 16625203 ChIP-ChIP MESCs Mouse *2.38e-05
RNF2 16625203 ChIP-ChIP MESCs Mouse *1.06e-04
RNF2 27304074 Chip-Seq ESCs Mouse *1.34e-04
MTF2 20144788 ChIP-Seq MESCs Mouse *2.08e-04
KDM2B 26808549 Chip-Seq JURKAT Human *2.16e-04
Nerf2 26677805 Chip-Seq MACROPHAGESS Mouse *2.7e-04
PHC1 16625203 ChIP-ChIP MESCs Mouse *2.84e-04
BACH1 22875853 ChIP-PCR HELA AND SCP4 Human *5.81e-04
CTNNB1 24651522 ChIP-Seq LGR5+ INTESTINAL STEM Human *6.54e-04
SUZ12 18692474 ChIP-Seq MESCs Mouse *6.87e-04
0
1
2
3
4
−log₁₀(p-value)
TF Perturbations Followed by Expression
ATF6B KO MOUSE GSE35651 CREEDSID GENE 2660 UP *2.08e-05
FOSL1 KO MOUSE GSE43695 CREEDSID GENE 430 DOWN *3.e-05
MAF SIRNA MACROPHAGE HUMAN GSE98368 RNASEQ UP *3.76e-05
ZXDC DEPLETION HUMAN GSE45417 CREEDSID GENE 3044 DOWN *5.79e-05
MAF OE MACROPHAGE HUMAN GSE98368 RNASEQ UP *9.00e-05
SPDEF KD HUMAN GSE40985 CREEDSID GENE 2606 UP *9.38e-05
AHR KO MOUSE GSE19411 CREEDSID GENE 1468 DOWN *1.04e-04
SRF KO MOUSE GSE34545 CREEDSID GENE 2884 UP *1.17e-04
HSF1 KD HUMAN GSE3697 CREEDSID GENE 782 DOWN *1.36e-04
FLI1 KD HUMAN GSE27524 CREEDSID GENE 1601 UP *1.71e-04
0
1
2
3
−log₁₀(p-value)
Transcription Factor PPIs
JUN *3.24e-04
POU4F1 4.04e-03
STAT3 4.32e-03
IRF3 4.58e-03
EPAS1 8.96e-03
CCND1 9.29e-03
ZFP42 2.67e-02
MTF2 2.67e-02
SMAD1 2.75e-02
FLI1 2.8e-02
0
1
2
−log₁₀(p-value)
Panther 2016
Axon guidance mediated by Slit/Robo Homo sapiens P00008 2.4
Inflammation mediated by chemokine and cytokine signaling pat
FAS signaling pathway Homo sapiens P00020 4.10e-02
Ubiquitin proteasome pathway Homo sapiens P00060 5.65e-02
Ras Pathway Homo sapiens P04393 8.91e-02
Parkinson disease Homo sapiens P00049 1.04e-01
Apoptosis signaling pathway Homo sapiens P00006 1.29e-01
0
1
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NCI-Nature 2016
CXCR4-mediated signaling events Homo sapiens 46a5529b-6191-11e5-8ac5-06
Ephrin B reverse signaling Homo sapiens 149a63dc-6192-11e5-8ac5-06603eb7
Regulation of p38-alpha and p38-beta Homo sapiens 3062ca15-6195-11e5-8ac5
FoxO family signaling Homo sapiens d06dbbda-6192-11e5-8ac5-06603eb7f303
Degradation of beta catenin Homo sapiens 61b6f2fc-6191-11e5-8ac5-06603eb7
Glypican 1 network Homo sapiens fb91e48c-6192-11e5-8ac5-06603eb7f303 3.
IL8- and CXCR1-mediated signaling events Homo sapiens f6a58ef3-6193-11e5-8
BARD1 signaling events Homo sapiens 75b04491-618c-11e5-8ac5-06603eb7f30
Calcium signaling in the CD4+ TCR pathway Homo sapiens 5294f70b-618f-11e5
S1P3 pathway Homo sapiens 7cb02d01-6195-11e5-8ac5-06603eb7f303 3.84e-
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2
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BioPlanet 2019
Interleukin-2 signaling pathway *1.08e-05
Antigen processing: cross presentation *1.62e-04
Heparan sulfate/heparin glycosaminoglycan (HS-GAG) degra
CXCR4 signaling pathway *5.02e-04
p38-alpha and p38-beta regulation *7.46e-04
Primary immunodeficiency *1.02e-03
PI3K class IB pathway in neutrophils *1.53e-03
Wnt interactions in lipid metabolism and immune response
ABC transporters *1.83e-03
FoxO family signaling *1.98e-03
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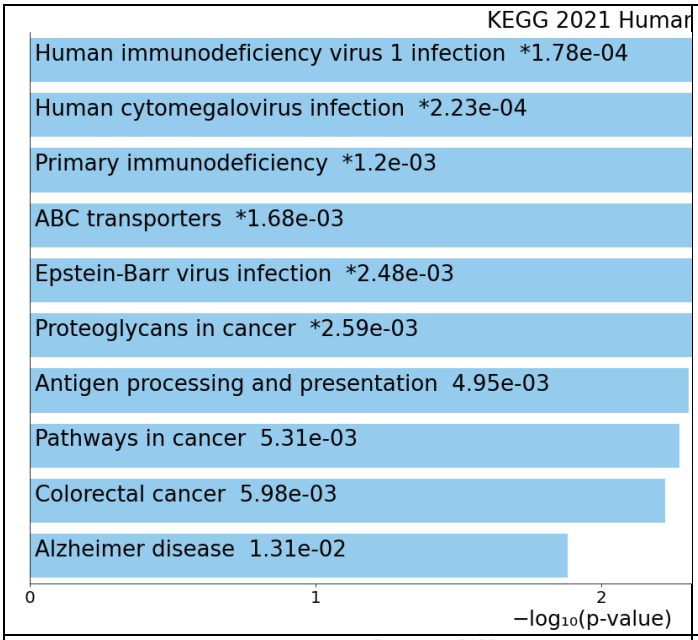
1
2
3
−log₁₀(p-value)


KEGG 2021 Human
Human immunodeficiency virus 1 infection *1.78e-04
Human cytomegalovirus infection *2.23e-04
Primary immunodeficiency *1.2e-03
ABC transporters *1.68e-03
Epstein-Barr virus infection *2.48e-03
Proteoglycans in cancer *2.59e-03
Antigen processing and presentation 4.95e-03
Pathways in cancer 5.31e-03
Colorectal cancer 5.98e-03
Alzheimer disease 1.31e-02
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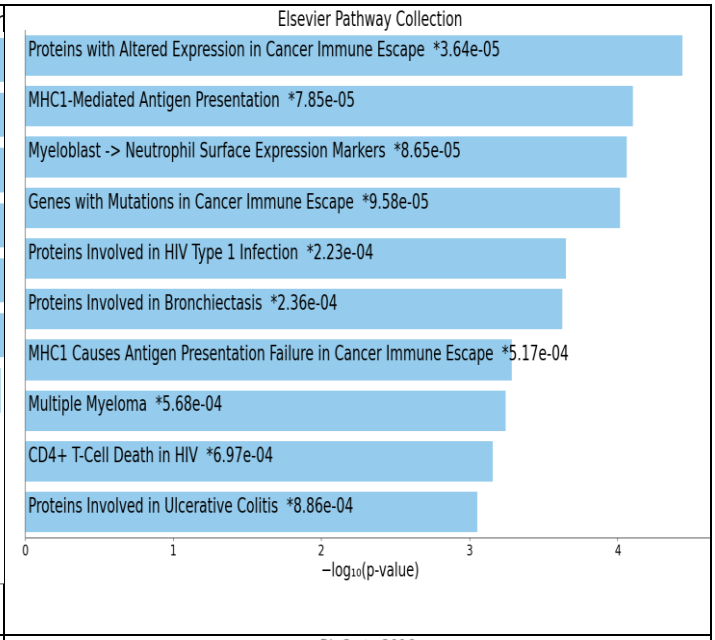
−log₁₀(p-value)


Elsevier Pathway Collection
Proteins with Altered Expression in Cancer Immune Escape *3.64e-05
MHC1-Mediated Antigen Presentation *7.85e-05
Myeloblast -> Neutrophil Surface Expression Markers *8.65e-05
Genes with Mutations in Cancer Immune Escape *9.58e-05
Proteins Involved in HIV Type 1 Infection *2.23e-04
Proteins Involved in Bronchiectasis *2.36e-04
MHC1 Causes Antigen Presentation Failure in Cancer Immune Escape *5.17e-04
Multiple Myeloma *5.68e-04
CD4+ T-Cell Death in HIV *6.97e-04
Proteins Involved in Ulcerative Colitis *8.86e-04
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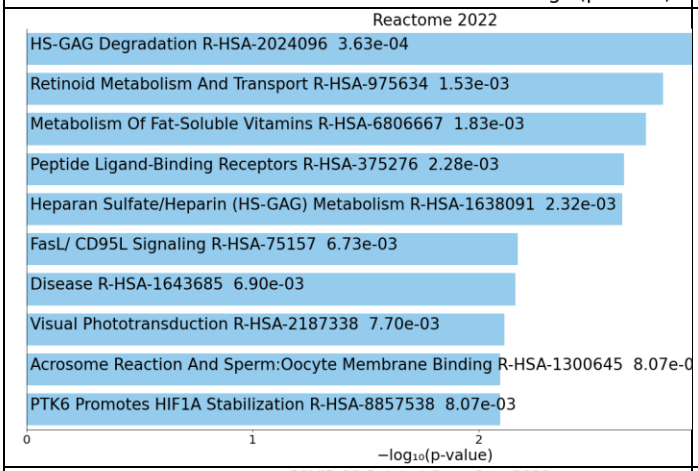
2
3
4
−log₁₀(p-value)


Reactome 2022
HS-GAG Degradation R-HSA-2024096 3.63e-04
Retinoid Metabolism And Transport R-HSA-975634 1.53e-03
Metabolism Of Fat-Soluble Vitamins R-HSA-6806667 1.83e-03
Peptide Ligand-Binding Receptors R-HSA-375276 2.28e-03
Heparan Sulfate/Heparin (HS-GAG) Metabolism R-HSA-1638091 2.32e-03
FasL/ CD95L Signaling R-HSA-75157 6.73e-03
Disease R-HSA-1643685 6.90e-03
Visual Phototransduction R-HSA-2187338 7.70e-03
Acrosome Reaction And Sperm:Oocyte Membrane Binding R-HSA-1300645 8.07e-0
PTK6 Promotes HIF1A Stabilization R-HSA-8857538 8.07e-03
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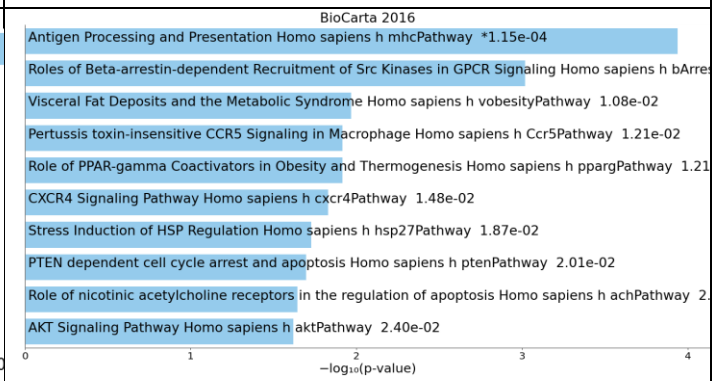
BioCarta 2016
Antigen Processing and Presentation Homo sapiens h mhcPathway *1.15e-04
Roles of Beta-arrestin-dependent Recruitment of Src Kinases in GPCR Signaling Homo sapiens h bArre
Visceral Fat Deposits and the Metabolic Syndrome Homo sapiens h vobesityPathway 1.08e-02
Pertussis toxin-insensitive CCR5 Signaling in Macrophage Homo sapiens h Ccr5Pathway 1.21e-02
Role of PPAR-gamma Coactivators in Obesity and Thermogenesis Homo sapiens h ppargPathway 1.21
CXCR4 Signaling Pathway Homo sapiens h cxcr4Pathway 1.48e-02
Stress Induction of HSP Regulation Homo sapiens h hsp27Pathway 1.87e-02
PTEN dependent cell cycle arrest and apoptosis Homo sapiens h ptenPathway 2.01e-02
Role of nicotinic acetylcholine receptors in the regulation of apoptosis Homo sapiens h achPathway 2.
AKT Signaling Pathway Homo sapiens h aktPathway 2.40e-02
0
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2
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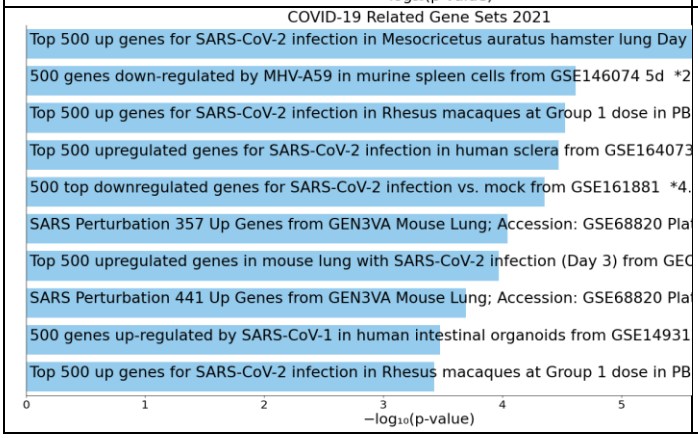
4
−log₁₀(p-value)


COVID-19 Related Gene Sets 2021
Top 500 up genes for SARS-CoV-2 infection in Mesocricetus auratus hamster lung Day
500 genes down-regulated by MHV-A59 in murine spleen cells from GSE146074 5d *2
Top 500 up genes for SARS-CoV-2 infection in Rhesus macaques at Group 1 dose in PB
Top 500 upregulated genes for SARS-CoV-2 infection in human sclera from GSE164073
500 top downregulated genes for SARS-CoV-2 infection vs. mock from GSE161881 *4.
SARS Perturbation 357 Up Genes from GEN3VA Mouse Lung; Accession: GSE68820 Pla
Top 500 upregulated genes in mouse lung with SARS-CoV-2 infection (Day 3) from GEO
SARS Perturbation 441 Up Genes from GEN3VA Mouse Lung; Accession: GSE68820 Pla
500 genes up-regulated by SARS-CoV-1 in human intestinal organoids from GSE14931
Top 500 up genes for SARS-CoV-2 infection in Rhesus macaques at Group 1 dose in PB
0
1
2
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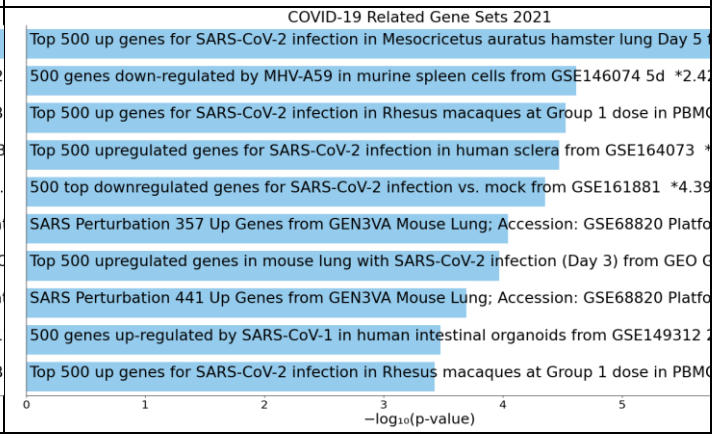
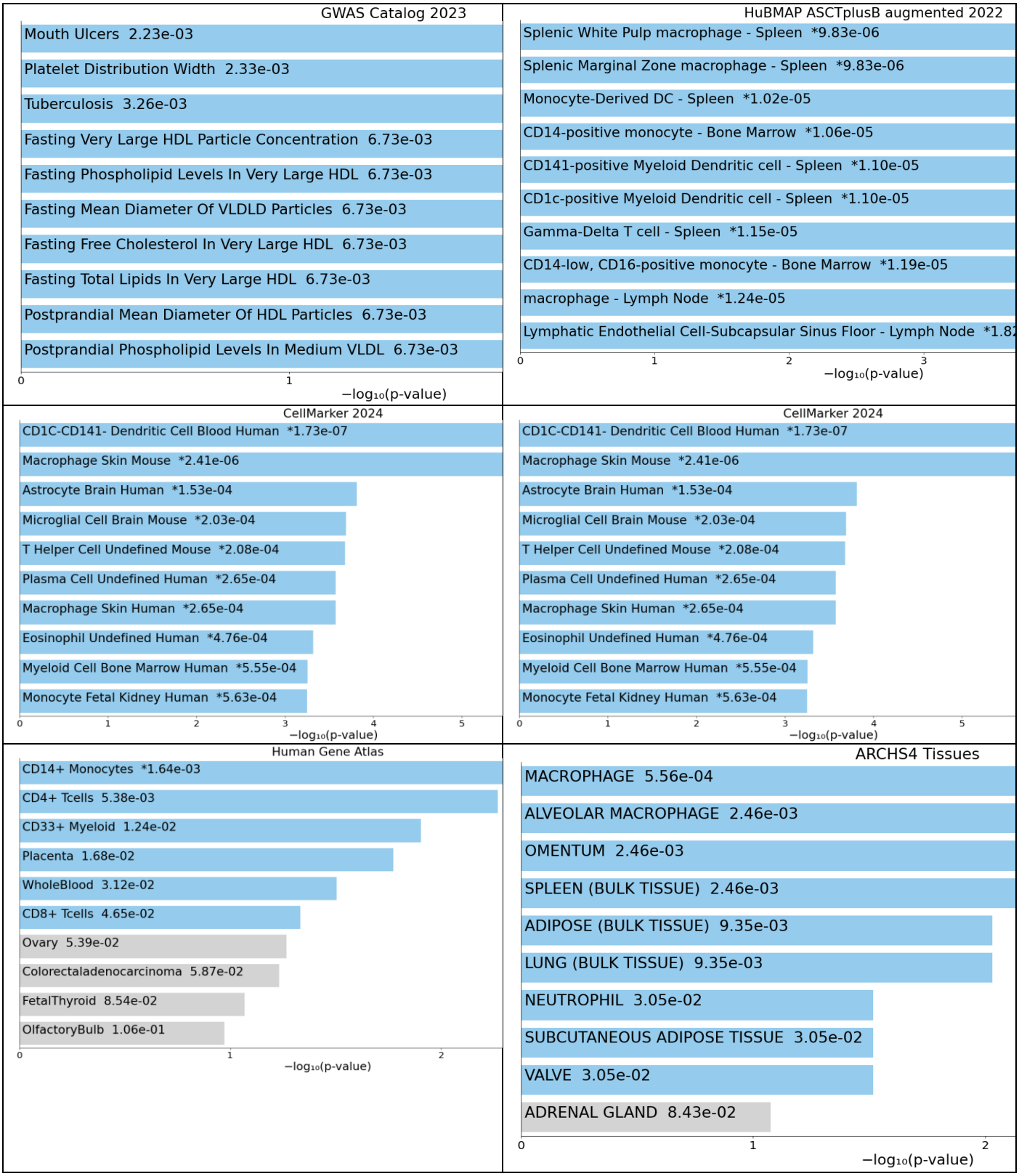
5
−log₁₀(p-value)


COVID-19 Related Gene Sets 2021
Top 500 up genes for SARS-CoV-2 infection in Mesocricetus auratus hamster lung Day 5
500 genes down-regulated by MHV-A59 in murine spleen cells from GSE146074 5d *2.4
Top 500 up genes for SARS-CoV-2 infection in Rhesus macaques at Group 1 dose in PBMC
Top 500 upregulated genes for SARS-CoV-2 infection in human sclera from GSE164073 *
500 top downregulated genes for SARS-CoV-2 infection vs. mock from GSE161881 *4.39
SARS Perturbation 357 Up Genes from GEN3VA Mouse Lung; Accession: GSE68820 Platfo
Top 500 upregulated genes in mouse lung with SARS-CoV-2 infection (Day 3) from GEO C
SARS Perturbation 441 Up Genes from GEN3VA Mouse Lung; Accession: GSE68820 Platfo
500 genes up-regulated by SARS-CoV-1 in human intestinal organoids from GSE149312
Top 500 up genes for SARS-CoV-2 infection in Rhesus macaques at Group 1 dose in PBMC
0
1
2
3
4
5
−log₁₀(p-value)


GWAS Catalog 2023
Mouth Ulcers 2.23e-03
Platelet Distribution Width 2.33e-03
Tuberculosis 3.26e-03
Fasting Very Large HDL Particle Concentration 6.73e-03
Fasting Phospholipid Levels In Very Large HDL 6.73e-03
Fasting Mean Diameter Of VLDLD Particles 6.73e-03
Fasting Free Cholesterol In Very Large HDL 6.73e-03
Fasting Total Lipids In Very Large HDL 6.73e-03
Postprandial Mean Diameter Of HDL Particles 6.73e-03
Postprandial Phospholipid Levels In Medium VLDL 6.73e-03
0
1
−log₁₀(p-value)
HuBMAP ASCTplusB augmented 2022
Splenic White Pulp macrophage - Spleen *9.83e-06
Splenic Marginal Zone macrophage - Spleen *9.83e-06
Monocyte-Derived DC - Spleen *1.02e-05
CD14-positive monocyte - Bone Marrow *1.06e-05
CD141-positive Myeloid Dendritic cell - Spleen *1.10e-05
CD1c-positive Myeloid Dendritic cell - Spleen *1.10e-05
Gamma-Delta T cell - Spleen *1.15e-05
CD14-low, CD16-positive monocyte - Bone Marrow *1.19e-05
macrophage - Lymph Node *1.24e-05
Lymphatic Endothelial Cell-Subcapsular Sinus Floor - Lymph Node *1.82
0
1
2
3
−log₁₀(p-value)
CellMarker 2024
CD1C-CD141- Dendritic Cell Blood Human *1.73e-07
Macrophage Skin Mouse *2.41e-06
Astrocyte Brain Human *1.53e-04
Microglial Cell Brain Mouse *2.03e-04
T Helper Cell Undefined Mouse *2.08e-04
Plasma Cell Undefined Human *2.65e-04
Macrophage Skin Human *2.65e-04
Eosinophil Undefined Human *4.76e-04
Myeloid Cell Bone Marrow Human *5.55e-04
Monocyte Fetal Kidney Human *5.63e-04
0
1
2
3
4
5
−log₁₀(p-value)
CellMarker 2024
CD1C-CD141- Dendritic Cell Blood Human *1.73e-07
Macrophage Skin Mouse *2.41e-06
Astrocyte Brain Human *1.53e-04
Microglial Cell Brain Mouse *2.03e-04
T Helper Cell Undefined Mouse *2.08e-04
Plasma Cell Undefined Human *2.65e-04
Macrophage Skin Human *2.65e-04
Eosinophil Undefined Human *4.76e-04
Myeloid Cell Bone Marrow Human *5.55e-04
Monocyte Fetal Kidney Human *5.63e-04
0
1
2
3
4
5
−log₁₀(p-value)
Human Gene Atlas
CD14+ Monocytes *1.64e-03
CD4+ Tcells 5.38e-03
CD33+ Myeloid 1.24e-02
Placenta 1.68e-02
WholeBlood 3.12e-02
CD8+ Tcells 4.65e-02
Ovary 5.39e-02
Colorectaladenocarcinoma 5.87e-02
FetalThyroid 8.54e-02
OlfactoryBulb 1.06e-01
0
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−log₁₀(p-value)
ARCHS4 Tissues
MACROPHAGE 5.56e-04
ALVEOLAR MACROPHAGE 2.46e-03
OMENTUM 2.46e-03
SPLEEN (BULK TISSUE) 2.46e-03
ADIPOSE (BULK TISSUE) 9.35e-03
LUNG (BULK TISSUE) 9.35e-03
NEUTROPHIL 3.05e-02
SUBCUTANEOUS ADIPOSE TISSUE 3.05e-02
VALVE 3.05e-02
ADRENAL GLAND 8.43e-02
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2
−log₁₀(p-value)

Table s11:

SUID	AverageShortestPathLength	BetweennessCentrality	ClosenessCentrality	ClusteringCoefficient	degree.layout	Eccentricity	EdgeCount	Indegree	Matching.Attribute	Matching.Attribute.1	MCODE_Cluster	MCODE_Score	name	NeighborhoodConnectivity	Outdegree
1342	1	0	1	0	5	1	7	0	DAB2	DAB2		0.25	DAB2	8.142857	7
1343	0	0	0	0	5	0	5	5	positive regulation of protein phosphorylation	positive regulation of protein phosphorylation		0.285714	positive regulation of protein phosphorylation	6.4	0
1344	1	0	1	0	7	1	8	0	RALB	RALB		0.222222	RALB	8.5	8
1345	1	0	1	0	7	1	7	0	GPNMB	GPNMB		0.25	GPNMB	10.71429	7
1346	1	0	1	0	4	1	4	0	PELI2	PELI2		0.4	PELI2	12.5	4
1347	1	0	1	0	5	1	6	0	AXIN2	AXIN2		0.285714	AXIN2	9.833333	6
1348	0	0	0	0	5	0	4	4	positive regulation of cell migration	positive regulation of cell migration		0.333333	positive regulation of cell migration	8.25	0
1349	1	0	1	0	8	1	10	0	CXCR4	CXCR4		0.181818	CXCR4	8.6	10
1350	0	0	0	0.5	3	0	2	2	antigen processing and presentation of endogenous peptide antigen via MHC class I	antigen processing and presentation of endogenous peptide antigen via MHC class I		2	antigen processing and presentation of endogenous peptide antigen via MHC class I	19.5	0
1351	0	0	0	0	5	0	4	4	apoptotic process	apoptotic process		0.333333	apoptotic process	9.25	0
1352	0	0	0	0	3	0	2	2	receptor internalization	receptor internalization		0.5	receptor internalization	7	0
1353	1	0	1	0	4	1	6	0	CD9	CD9		0.285714	CD9	10.5	6
1354	0	0	0	0.05	6	0	5	5	signal transduction	signal transduction		2	signal transduction	8.2	0
1355	1	0	1	0	4	1	5	0	C5AR1	C5AR1		0.333333	C5AR1	8.2	5
1356	0	0	0	0	3	0	2	2	positive regulation of epithelial to mesenchymal transition	positive regulation of epithelial to mesenchymal transition		0.5	positive regulation of epithelial to mesenchymal transition	6.5	0
1357	0	0	0	0.166667	4	0	3	3	protein transport	protein transport		2	protein transport	15.33333	0
1358	0	0	0	0.004762	12	0	15	15	plasma membrane	plasma membrane		2	plasma membrane	7.2	0

1359	1	0	1	0	4	1	5	0	SDC2	SDC2		0.333333	SDC2	12.2	5
1360	1	0	1	0	3	1	3	0	LPL	LPL		0.5	LPL	14.33333	3
1361	1	0	1	0	3	1	3	0	PIK3IP1	PIK3IP1		0.5	PIK3IP1	14.33333	3
1362	1	0	1	0	4	1	4	0	FXYD7	FXYD7		0.4	FXYD7	14.5	4
1363	0	0	0	0.5	3	0	2	2	TAP complex	TAP complex		2	TAP complex	19.5	0
1364	0	0	0	0	4	0	3	3	lysosomal lumen	lysosomal lumen		0.4	lysosomal lumen	7.333333	0
1365	1	0	1	0	3	1	5	0	HPSE	HPSE		0.333333	HPSE	10.4	5
1366	1	0	1	0	2	1	2	0	LRRC25	LRRC25		0.666667	LRRC25	18.5	2
1367	0	0	0	0.00641	10	0	13	13	membrane	membrane		2	membrane	8.230769	0
1368	1	0	1	0	6	1	9	0	PSMD1	PSMD1		0.2	PSMD1	8.222222	9
1369	0	0	0	0.5	3	0	2	2	MHC class I peptide loading complex	MHC class I peptide loading complex		2	MHC class I peptide loading complex	19.5	0
1370	0	0	0	0	4	0	3	3	external side of plasma membrane	external side of plasma membrane		0.4	external side of plasma membrane	9.333333	0
1371	0	0	0	0.005435	14	0	24	24	protein binding	protein binding		0.857143	protein binding	6.291667	0
1372	1	0	1	0	1	1	1	0	SPON1	SPON1		0	SPON1	24	1
1373	1	0	1	0	1	1	1	0	TSC22D3	TSC22D3		0	TSC22D3	24	1
1374	1	0	1	0	1	1	1	0	MAFB	MAFB		0	MAFB	24	1
1375	1	0	1	0	2	1	2	0	PDK4	PDK4		0.666667	PDK4	16.5	2
1376	0	0	0	0.5	3	0	2	2	ABC-type peptide antigen transporter activity	ABC-type peptide antigen transporter activity		2	ABC-type peptide antigen transporter activity	19.5	0
1377	0	0	0	0.5	3	0	2	2	peptide transmembrane transporter activity	peptide transmembrane transporter activity		2	peptide transmembrane transporter activity	19.5	0
1378	0	0	0	0.5	3	0	2	2	TAP1 binding	TAP1 binding		2	TAP1 binding	19.5	0

1379	0	0	0	0	5	0	4	4	ubiquitin protein ligase binding	ubiquitin protein ligase binding		0.333333	ubiquitin protein ligase binding	8.25	0
1380	0	0	0	0.5	3	0	2	2	MHC class Ib protein binding	MHC class Ib protein binding		2	MHC class Ib protein binding	19.5	0
1381	0	0	0	0.083333	3	0	4	4	signaling receptor binding	signaling receptor binding		2	signaling receptor binding	6.75	0
1382	0	0	0	0.5	3	0	2	2	peptide antigen binding	peptide antigen binding		2	peptide antigen binding	19.5	0
1383	0	0	0	0.083333	5	0	4	4	Human immunodeficiency virus 1 infection	Human immunodeficiency virus 1 infection		2	Human immunodeficiency virus 1 infection	15.25	0
1384	0	0	0	0.5	3	0	2	2	Primary immunodeficiency	Primary immunodeficiency		2	Primary immunodeficiency	19.5	0
1385	0	0	0	0.5	3	0	2	2	ABC transporters	ABC transporters		2	ABC transporters	19.5	0
1386	0	0	0	0.166667	4	0	3	3	ER-Phagosome pathway	ER-Phagosome pathway		2	ER-Phagosome pathway	16	0
1387	0	0	0	0.166667	4	0	3	3	Antigen processing-Cross presentation	Antigen processing-Cross presentation		2	Antigen processing-Cross presentation	16	0
1388	0	0	0	0	6	0	6	6	Infectious disease	Infectious disease		0.25	Infectious disease	7.166667	0
1389	0	0	0	0.5	3	0	2	2	"Antigen Presentation: Folding	"Antigen Presentation: Folding		2	"Antigen Presentation: Folding	19.5	0
1390	0	0	0	0	5	0	4	4	Neutrophil degranulation	Neutrophil degranulation		0.333333	Neutrophil degranulation	7	0
1391	0	0	0	0.035714	8	0	8	8	Immune System	Immune System	Cluster 1	1.2	Immune System	10.375	0
1392	0	0	0	0	8	0	9	9	Signal Transduction	Signal Transduction		0.181818	Signal Transduction	7	0
1393	1.4	0	0.714286	0.166667	3	2	3	0	EWSR1	EWSR1		2	EWSR1	14.33333	3
1394	1	6.49E-04	1	0.083333	4	1	4	1	HNRNPM	HNRNPM		2	HNRNPM	12.25	3
1395	1.2	0	0.833333	0.037879	9	2	12	0	FASLG	FASLG	Cluster 1	1.047619	FASLG	8.416667	12
1396	1	9.74E-04	1	0.069444	8	1	9	1	FGR	FGR	Cluster 1	1.047619	FGR	9.111111	8
1397	1	0	1	0.047368	5	1	20	0	TAP1	TAP1		0.389474	TAP1	5.7	20
1398	1	0	1	0.052632	4	1	19	1	TAP2	TAP2		0.389474	TAP2	5.263158	18

1399					1					assembly and peptide loading of class I MHC"		0	assembly and peptide loading of class I MHC"		
1400					3					Reactome Pathway		0.285714	Reactome Pathway		
1401					3					KEGG Pathway		0.5	KEGG Pathway		
1402					3					Molecular Function		0.222222	Molecular Function		
1403					2					Cellular Component		0.285714	Cellular Component		
1404					4					Biological Process		0.222222	Biological Process		

Table s12: Top 30 in network Merged Network_1 ranked by Degree method.

Rank	Name	Score
1	protein binding	25
2	TAP1	20
3	TAP2	19
4	plasma membrane	16
5	membrane	14
6	FASLG	12
7	CXCR4	10
7	Signal Transduction	10
9	PSMD1	9
9	Immune System	9
9	FGR	9
12	RALB	8
12	Molecular Function	8
12	Biological Process	8
15	DAB2	7
15	GPNMB	7
15	Infectious disease	7
18	positive regulation of protein phosphorylation	6
18	AXIN2	6
18	CD9	6
18	signal transduction	6
18	Reactome Pathway	6
18	Cellular Component	6
24	positive regulation of cell migration	5
24	apoptotic process	5
24	C5AR1	5
24	SDC2	5
24	HPSE	5
24	ubiquitin protein ligase binding	5
24	signaling receptor binding	5