

Supplementary Information

Table 1: Mapped CTL epitopes bearing the least percentile rank

Peptide	Score	Percentile_rank
RNA-dependent RNA polymerase		
³³⁴ FVDGVPFV ³⁴²	0.9027	0.03
⁸⁵⁴ LMIERFVSL ⁸⁶²	0.9069	0.03
¹²³ TMADLVYAL ¹³¹	0.9333	0.03
⁶⁴ NLIDSYFVV ⁷²	0.8227	0.07
²³⁹ SLLMPILTL ²⁴⁷	0.7936	0.08
⁷⁴¹ FVNEFYAYL ⁷⁴⁹	0.7609	0.1
⁸⁹⁹ MLDMYSVML ⁹⁰⁷	0.7012	0.13
⁶⁵⁴ RLANECAQV ⁶⁶²	0.6594	0.15
⁴⁶⁷ RQLLFVVEV ⁴⁷⁵	0.6573	0.16
⁸⁸ NLLKDCPAV ⁹⁶	0.5536	0.23
Spike Protein		
²⁶⁹ YLQPRTFLL ²⁷⁷	0.9712	0.02
¹⁰⁹ TLDSKTQSL ¹¹⁷	0.915	0.03
⁹⁷⁶ VLNDILSRL ⁹⁸⁴	0.9385	0.03
⁴¹⁷ KIADYNYKL ⁴²⁵	0.8646	0.05
¹⁰⁰⁰ RLQSLQTYV ¹⁰⁰⁸	0.8738	0.05
⁹⁸³ RLDPPEAEV ⁹⁹¹	0.825	0.06
¹⁰⁴⁸ HLMSFPQSA ¹⁰⁵⁶	0.7985	0.08
⁸²¹ LLFNKVTLA ⁸²⁹	0.8035	0.08
¹⁰⁶⁰ VVFLHVTYV ¹⁰⁶⁸	0.7417	0.11

⁹⁵⁸ ALNTLVKQL ⁹⁶⁶	0.6574	0.16
---	--------	------

Table 2.

Peptide region	length	score
RNA dependent RNA polymerase		
854-862	9	0.24273
741-749	9	0.24003
467-475	9	0.23144
334-342	9	0.19398
123-131	9	0.08282
64-72	9	0.02386
Spike protein		
269-277	9	0.1305
1060-1068	9	0.1278
976-984	9	0.03
983-991	9	0.01617
417-425	9	-0.10379
821-829	9	-0.11337

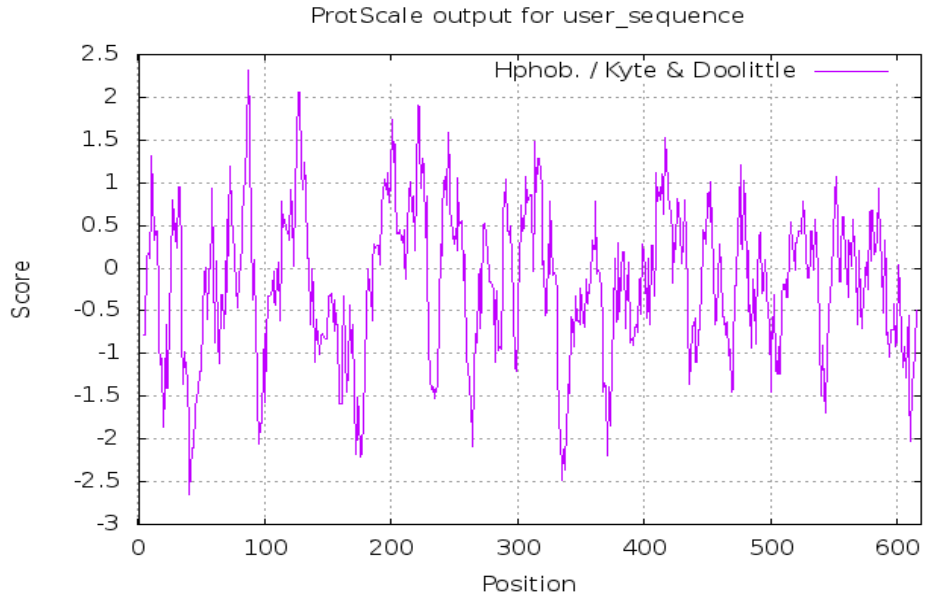


Figure 1: Hydropathy plot for recombinant antigen.

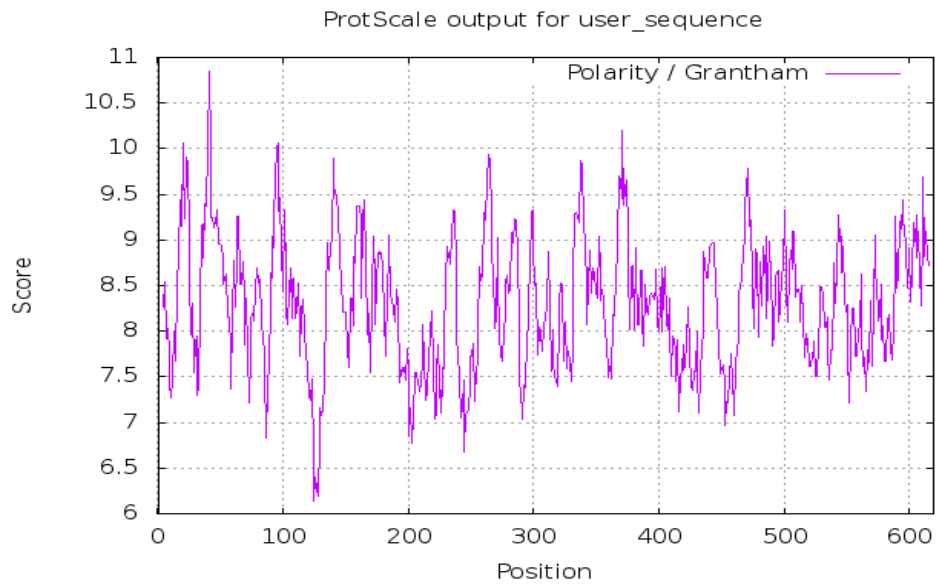


Figure 2: Polarity plot for recombinant antigen.