

1 **Supplementary Table 1:** Amino acid composition of HPV-45 E6, E7 and L1 protein through  
 2 ProtParam

<b>Protein →</b>	<b>E6</b>		<b>E7</b>		<b>L1</b>	
<b>Amino Acid ↓</b>	<b>Number of residues</b>	<b>Percentage</b>	<b>Number of residues</b>	<b>Percentage</b>	<b>Number of residues</b>	<b>Percentage</b>
<b>Ala (A)</b>	10	6.3	6	5.7	31	5.8
<b>Arg (R)</b>	20	12.7	6	5.7	28	5.2
<b>Asn (N)</b>	6	3.8	3	2.8	22	4.1
<b>Asp (D)</b>	9	5.7	6	5.7	33	6.1
<b>Cys (C)</b>	12	7.6	7	6.6	14	2.6
<b>Gln (Q)</b>	9	5.7	8	7.5	26	4.8
<b>Glu (E)</b>	10	6.3	14	13.2	15	2.8
<b>Gly (G)</b>	3	1.9	3	2.8	32	5.9
<b>His (H)</b>	3	1.9	4	3.8	12	2.2
<b>Ile (I)</b>	8	5.1	3	2.8	27	5.0
<b>Leu (L)</b>	15	9.5	15	14.2	40	7.4
<b>Lys (K)</b>	10	6.3	2	1.9	27	5.0
<b>Met (M)</b>	1	0.6	1	0.9	11	2.0
<b>Phe (F)</b>	5	3.2	2	1.9	23	4.3
<b>Pro (P)</b>	5	3.2	6	5.7	42	7.8
<b>Ser (S)</b>	6	3.8	5	6.6	42	7.8
<b>Thr (T)</b>	9	5.7	7	4.7	42	7.8
<b>Trp (W)</b>	0	0.0	1	0.9	8	1.5
<b>Tyr (Y)</b>	11	7.0	1	0.9	24	4.5
<b>Val (V)</b>	6	3.8	6	5.7	40	7.4
<b>Pyl (O)</b>	0	0.0	0	0.0	0	0.0
<b>Sec (U)</b>	0	0.0	0	0.0	0	0.0