

Number of amino acids: 7096

Molecular weight: 794057.79

Theoretical pI: 6.32

Amino acid composition: [CSV format](#)

Ala (A)	487	6.9%
Arg (R)	244	3.4%
Asn (N)	384	5.4%
Asp (D)	389	5.5%
Cys (C)	226	3.2%
Gln (Q)	239	3.4%
Glu (E)	340	4.8%
Gly (G)	412	5.8%
His (H)	145	2.0%
Ile (I)	343	4.8%
Leu (L)	668	9.4%
Lys (K)	434	6.1%
Met (M)	168	2.4%
Phe (F)	349	4.9%
Pro (P)	274	3.9%
Ser (S)	456	6.4%
Thr (T)	527	7.4%
Trp (W)	78	1.1%
Tyr (Y)	335	4.7%
Val (V)	598	8.4%
Pyl (O)	0	0.0%
Sec (U)	0	0.0%
(B)	0	0.0%
(Z)	0	0.0%
(X)	0	0.0%

Total number of negatively charged residues (Asp + Glu): 729

Total number of positively charged residues (Arg + Lys): 678

**Fig. 4.1** Partial output of Protparam tool

## 4.2 Identification of Domains within the ORF1ab Polyprotein using SMART