

Table S1. Antigenic and immunogenic properties of proteins.

Proteins	IEDB			VaxiJen	ANTIGENPro
	Hydrophilicity	Flexibility	Beta turn		
CBA09441	2.176	1.007	1.025	0.7022	0.909208
CBA07476	2.167	1.006	1.025	0.7186	0.90866
CAM07737	2.18	1.007	1.025	0.7092	0.910421
CBA03648	2.177	1.007	1.029	0.6939	0.9154
SUA22176	1.819	1.003	1.011	0.5955	0.895585