

Supplementary table 11. B cell Epitope prediction identifies 19 distinct peptide epitopes with 7 aminoacid variation sites in the 4 peptide epitopes (Bolded, Highlighted) over the CPV VP2 capsid protein of CPV repository isolates (2009-19) on par with the CPV vaccine strains.

No.	Start	End	Peptide Epitopes	Length
1	4	56	GAVQPDGGQPAVRNERATGSGNGSGGGGGGGSGGGVGISTGTFNNQTEFKFLEN	53
2	84	100	VNNLDKTAVNGNMLDD	17
3	134	138	SELHL	5
4	156	167	SATQPPTKVYNN	12
5	192	195	SETL	4
6	200	203	WKPT	4
7	213	238	QWDRTL I PSHTGTSGTPTNIYHGTDP	26
8	261	263	FAT	3
9	270	278	CKPCRLTHT	9
10	294	313	LPQ A EG G TNFG Y IGVQQDKR	20
11	323	333	N IITEATIMRP	11
12	345	447	FEASTQGPFKTPIAAGRGAQTDENQAADG D PRYAFGRQH G QKTTTTGETPERFTYIAHQDTGRYPEGDWIQNINFNLPVTN DNVLLPTDPIGGKAGINYTN	103
13	461	462	PP	2
14	474	480	FDTDLKP	7
15	507	520	TNEYDPDASANMSR	14
16	541	546	ASHTWN	6
17	550	562	QMSINVDNQFNYV	13
18	4	56	GAVQPDGGQPAVRNERATGSGNGSGGGGGGGSGGGVGISTGTFNNQTEFKFLEN	53
19	84	100	VNNLDKTAVNGNMLDD	17