

CLINICS-D-25-01089_Supplementary Material

Supplemental Table S1 Comparison of the four multi-epitope vaccine constructs (V1–V4) showing MHC-I and MHC-II epitope composition, predicted antigenicity of the constructs, and combined HLA population coverage (%).

Vaccine Construct	MHC-I Epitopes	MHC-II Epitopes	Antigenicity of Constrcut	Combined HLA Population Coverage (%) across World
V1	GLVPYRIQV; RNTYELDFSF; TICFFIHQK; TLAILLVLK	CFVPDKAVVSALKRG; DMAICYGAESVTLSR; PFRIISVRYSRKVCV; KNLKLIAFAGIPSYS	0.688	94.76
V2	IAFAGIPSY; VSFKGLCMLK; LLITFCFGWV; RYSRKVCVQF	LIGLVPYRIQVVYER; NLKLIAFAGIPSYSS; LYRTLNLFRYKSRCY; TPFRIISVRYSRKVC	0.683	95.94
V3	FRIISVRYSR; LTKVVWRKK; RIISVRYSRK; LVPYRIQVVY	IISVRYSRKVCVQFG; AALLITFCFGWVLIP; AWGSGVGFTLTCQVS; PVATPFRIISVRYSR	0.593	86.30
V4	TETATQAHYK; QQISFICQR; CTLAILLVLK; IISVRYSRK	SSKNLKLIAFAGIPS; CETLKELKAHNLSCV; MAICYGAESVTLSRG; GIFNITSPMCLVSKQ	0.688	78.33