

## 1.2 27mer Vaccine Peptides

	Sequence	Protein	Start	End	B-cell Epitope	HLA-I Coverage	HLA-II Coverage	H2 <sup>b</sup> I	H2 <sup>b</sup> II	H2 <sup>d</sup> I	H2 <sup>d</sup> II	Selection Sets
1	LLQFAYANRNRFLYIIKLIFLWLLWPV	M	34	60		89.0%	36.0%	+	+	+	+	* * <sup>b</sup> * <sup>d</sup> * <sup>bd</sup> ○ ○ <sup>d</sup> ○ <sup>bd</sup> ⊗ ⊗ <sup>d</sup> ⊗ <sup>b</sup> ⊗ <sup>bd</sup>
2	PVTLACFVLAAYRINWITGGIAIAMA	M	59	85		42.0%	76.0%	+	+	-	+	○ <sup>b</sup>
3	YFIASFRLFARTRSMWSFNPETNILLN	M	95	121		78.0%	53.0%	+	+	+	+	⊗ <sup>bd</sup>
4	KDLSRWYFYFLGTGPEAGLPYGANKD	N	102	128		49.0%	39.0%	+	+	+	-	* * <sup>b</sup> * <sup>d</sup>
5	WPQIAQFAPSASAFFGMSRIGMEVTPS	N	301	327		63.0%	61.0%	+	+	+	+	○ <sup>bd</sup> ⊗ <sup>d</sup> ⊗ <sup>bd</sup>
6	AQFAPSASAFFGMSRIGMEVTPSGTWL	N	305	331		71.0%	57.0%	+	+	+	-	⊗ <sup>b</sup>
7	SASAFFGMSRIGMEVTPSGTWLTYTGA	N	310	336		76.0%	45.0%	+	-	+	-	* <sup>bd</sup>
8	VTPSGTWLTYTGAIKLDDKDPNFKDQV	N	324	350		50.0%	62.0%	+	+	-	-	○ <sup>b</sup>
9	PQRQKKQQTVTLLPAADLDDFSKQLQQ	N	383	409		11.0%	52.0%	-	-	-	+	○ ○ <sup>d</sup> ⊗
10	YDPKVFRSSVLHSTQDLFLPFFSNVTW	S	38	64		44.0%	52.0%	-	+	+	+	⊗ <sup>d</sup>
11	GAAAYYVGYLQPRTFLLKYNENGTITD	S	261	287		88.0%	38.0%	+	+	+	-	* <sup>bd</sup>
12	SETKCTLSFTVEKGIYQTSNFRVQPT	S	297	323		54.0%	52.0%	-	-	+	-	* <sup>d</sup>
13	GLTVLPPLLTDemiaQYTSALLAGTIT	S	857	883		66.0%	73.0%	+	+	+	+	⊗ <sup>d</sup> ⊗ <sup>b</sup> ⊗ <sup>bd</sup>
14	SVLNDILSRDLKVEAEVQIDRLITGRL	S	975	1001		72.0%	28.0%	+	-	-	-	* * <sup>b</sup>
15	RLQSLQTYVTQQLIRAAEIRASANLAA	S	1000	1026		54.0%	81.0%	-	+	+	+	○ ○ <sup>d</sup> ○ <sup>b</sup> ○ <sup>bd</sup>
16	GNYNLYRLFRKSNLKPFERDISTEIIY	S	447	473	S <sub>456-473</sub>	82.0%	38.0%	+	-	+	-	⊗ <sup>d</sup> ⊗ <sup>b</sup> ⊗ <sup>bd</sup>
17	YLYRLFRKSNLKPFERDISTEIIYQAGS	S	451	477	S <sub>456-473</sub>	78.0%	46.0%	+	-	-	-	□ □ ⊗
18	FRKSNLKPFERDISTEIIYQAGSTPCNG	S	456	482	S <sub>456-473</sub>	46.0%	30.0%	-	+	-	-	□ <sup>b</sup>
19	KFLPFQQFGRDIADTTDAVRDPQTLEI	S	558	584	S <sub>580-583</sub>	0.0%	0.0%	-	-	-	-	□
20	PQTLEILDITPCSFGGVSVITPGTNTS	S	579	605	S <sub>580-583</sub>	13.0%	21.0%	-	-	-	-	⊗ □ ⊗
21	IYKTPPIKDFGGFNFSQILPDPSKPSK	S	788	814	S <sub>809-812</sub>	35.0%	23.0%	-	+	-	-	□ □ <sup>b</sup>
22	PSKPSKRSFIEDLLFNKVTADAGFIK	S	809	835	S <sub>809-812</sub>	66.0%	40.0%	+	-	-	+	⊗ <sup>b</sup> ⊗ □ □ <sup>d</sup> ⊗