

574 **Supplemental Table 1. List of GP83 9-mer peptides used for IFN- γ ELISPOT.**

Peptide Number	Sequence	Peptide Number	Sequence	Peptide Number	Sequence	Peptide Number	Sequence
1	MERYVGLGT	41	GNRAHV DRA	81	SHGETTVRK	121	RRVSEEIFP
2	VGLGTTLHL	42	HVDRLTVT	82	TTVRKDEVL	122	EEIFPSVLF
3	TTLHLALQV	43	ALTVTVLLS	83	KDEVLGIVH	123	PSVLFYPWA
4	LALQVEGPF	44	TVLLSVKPA	84	LGIVHFFDN	124	FYPWALSIP
5	VEGPFPGPHE	45	SVKPACMTH	85	HFFDNDLLT	125	ALSIPTGFC
6	FGPHETRFV	46	ACMTHVDSL	86	NDLLTFHRV	126	PTGFCAIYH
7	ETRFVHFDA	47	HVDSLTEIN	87	TFHRVAGVI	127	CAYIHYNVV
8	VHFDAFTV	48	LTEINCSHE	88	VAGVIDTCM	128	HYNVACSS
9	ATFTVP RTP	49	NCSHEDIQV	89	IDTCMMGKQ	129	VACSEHSS
10	VPRTPSVVI	50	EDIQVFKAE	90	MMGKQFETR	130	SEHSSGEVQ
11	PSVVIV AEE	51	VFKA EVFQK	91	QFETRVRR C	131	SGEVQDGSV
12	IVAE EQVGS	52	EVFQKGRPN	92	RVRRCSESC	132	QDGSVWFDG
13	EQVGS HLPP	53	KGRPNVLGL	93	CSESCQEQV	133	VWFDGVPTR
14	SHLPPSSPL	54	NVLGLTLQT	94	CQEQVFKS	134	GVPTRPASR
15	PSSPLR MKF	55	LTLQTTAKP	95	VFVKSGGRR	135	RPASRACSR
16	LRMKFRAIH	56	TTAKPPPKK	96	SGGRRTGNA	136	RACSRTRRD
17	FRAIHSQEE	57	PPPKKLTLF	97	RTGNADRHR	137	RTRRDDDGG
18	HSQEELDLL	58	KLTLFFQLL	98	ADRRRRDRD	138	DDDGGAGTS
19	ELDLLNLEV	59	FFQLLASHA	99	RRDRDGGDD	139	GAGTSRRSH
20	LNLEVRNAS	60	LASHAQVVM	100	DGGDDDDDE	140	SRRSHRGAQ
21	VRNASDQPL	61	AQVVMRHNP	101	DDDDENEDG		
22	SDQPLPAKS	62	MRHNYPYPAL	102	ENEDGEEGE		
23	LPAKSFYDL	63	PYPALQSHP	103	GEEGEEDGE		
24	SFYDLNVVV	64	LQSHPSNGF	104	EEDGEEDVG		
25	LNVVVFALP	65	PSNGFTIHC	105	EEDVGDAKD		
26	VFALPLPRV	66	FTIHC PGDI	106	GDAKDDGSE		
27	PLPRVHAAP	67	CPGDIRLQS	107	DDGSESSSE		
28	VHAAPLHIF	68	IRLQSGQTY	108	ESSSESELG		
29	PLHIFNSA	69	SGQTYRLTL	109	ESELGSGED		
30	FFNSALKPS	70	YRLTLRNGF	110	GSGEDNDGD		
31	ALKPSRETF	71	LRNGFDSTS	111	DNDGDDDDVF		
32	SRETFPTCS	72	FDSTSHAAL	112	DDDVFE CER		
33	FPTCSKTVV	73	SHAALFFPA	113	FECERPLAR		
34	SKTVVRRAC	74	LFFPADFPN	114	RPLAREDGA		
35	VRRACGAIW	75	ADFPNADIS	115	REDGASGSA		
36	CGAIWGVRT	76	NADISGGQW	116	ASGSAERGT		
37	WGVRTALSN	77	SGGQWKARH	117	AERGT LNES		
38	TALSNMAWT	78	WKARHNMDI	118	TLNESEDPS		
39	NMAWTEG VG	79	HNMDIVIRS	119	SEDPSLRPR		
40	TEGVGNRAH	80	IVIRSHGET	120	SLRPRRVSE		

575 **Supplemental Table 2. Summary of peptide pools used for epitope mapping.** Peptide #84
 576 was identified as a broadly reactive epitope after multiple animals responded to peptide pools 12
 577 and 19 (highlighted in light gray). Peptide #84 (highlighted in dark gray) was the only peptide
 578 shared by both pools.

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Pool	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
XIII	1	2	3	4	5	6	7	8	9	10	11	12
XIV	13	14	15	16	17	18	19	20	21	22	23	24
XV	25	26	27	28	29	30	31	32	33	34	35	36
XVI	37	38	39	40	41	42	43	44	45	46	47	48
XVII	49	50	51	52	53	54	55	56	57	58	59	60
XVIII	61	62	63	64	65	66	67	68	69	70	71	72
XIX	73	74	75	76	77	78	79	80	81	82	83	84
XX	85	86	87	88	89	90	91	92	93	94	95	96
XXI	97	98	99	100	101	102	103	104	105	106	107	108
XXII	109	110	111	112	113	114	115	116	117	118	119	120
XXIII	121	122	123	124	125	126	127	128	129	130	131	132
XXIV	133	134	135	136	137	138	139	140				