

Supplementary Table 1. Fine-mapping of responses to linker-containing peptides in pDNA-HTI immunized mice^a.

HTI segment junctions	HIV protein	# of HTI OLP	Sequence of OLP	# of positive animals ^a
S1-S2	Gag p24	#27	QKIEVAAAKAFSPEV	
S2-S3	Gag p24	#31	PMFSALAAAGHQAAM	
S3-S4	Gag p24	#35	MQMLKEAAAIAPGQM	
S3-S4	Gag p24	#50	KIVRMYSPTSIAAAAY	1
S4-S5 ^b	Gag p24	#51	MYSPTSIAAAAYVDRF	1
S4-S5	Gag p24	#52	TSIAAAAYVDRFYKTL	1
S4-S5	Gag p24	#55	FYKTLRAEQAAA	1
S5-S6 ^b	Gag p24	#56	YKTLRAEQAAACQGV	1
S5-S6	Gag p24	#57	RAEQAAACQGVGGPGH	
S6-S7	Gag p24	#61	ARVLAAACTERQANF	
S7-S8	Prt	#69	FLQSRAAAKMIGGI	
S7-S8 ^b	Prt	#85	TQIGCTLNFAALVEI	2
S8-S9	RT	#86	CTLNFAALVEICTEM	2
S8-S9	RT	#87	FAALVEICTEMEK	
S9-S10	RT	#91	GKISKIAAALRWGF	
S10-S11	RT	#107	KLVGKLAAAILKEPV	
S10-S11	RT	#116	GQWTYQIYAAATKEL	
S11-S12	Int	#117	YQIYAAATKELQKQI	
S11-S12	Int	#125	PLWKGPAAKLLWAAAK	
S11-S12	Int	#126	GPAKLLWAAAKIIR	2
S12-S13 ^b	Int	#127	KLLWAAAKIIRDYGGK	2
S12-S13	Int	#128	AAAKIIRDYGGKQMA	1
S13-S14	Vif	#132	DCVAAAVKHHMYISK	
S14-S15	Vif	#139	STHPRAAAVTKL	
S15-S16	Vif	#145	PQKTKGHRAAAWLEA	

^a Mice (N=6) were immunized 3 times with DNA-HTI and 4 of the animals with positive responses were used to fine-map the responses covering the linker-containing peptides.

^b Alanine-linker including peptides that gave a positive response.