

Table S12. Comparison of binding affinity measures for predicted CTL epitopes (strong binders only) from vaccine and placebo recipients.

Epitopes predicted to be strong binders were matched against vaccine inserts or reference sequences and the predicted binding affinity of breakthrough virus-derived epitopes were compared to those of vaccine- or reference-derived epitopes. The distribution of summary values determined for each subject was compared between vaccine and placebo groups using Mann-Whitney tests.

BINDING AFFINITY - STRONG BINDERS

Env-gp120

	VRC-A		VRC-B		VRC-C		Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	25	18	25	18	25	18	25	18	25	18	25	18
Median	0.758	0.770	0.860	0.840	0.862	0.965	0.956	0.909	0.960	1.035	0.868	0.901
Mean	0.805	0.868	0.881	1.018	0.890	1.016	0.941	1.051	1.049	1.181	0.896	1.037
P value	0.516		0.947		0.345		0.735		0.398		0.966	

Env-gp41

	VRC-A		VRC-B		VRC-C		Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	25	18	25	18	24	18	25	18	25	18	25	18
Median	0.692	0.774	0.840	0.937	0.938	0.875	0.904	0.986	0.905	0.991	0.875	0.939
Mean	0.708	0.854	0.880	1.008	0.923	0.904	0.953	1.020	0.939	1.053	0.902	0.977
P value	0.350		0.485		0.875		0.455		0.275		0.265	

Gag

	VRC-B		Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	24	18	24	18	24	18	24	18
Median	1.025	1.030	0.998	0.998	0.916	0.969	0.990	0.996
Mean	1.108	1.078	1.075	1.044	1.038	0.995	1.078	1.035
P value	0.826		0.693		0.620		> 0.999	

Pol

	VRC-B		Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	24	18	24	18	24	18	24	18
Median	0.934	0.942	0.943	0.967	0.951	0.969	0.970	0.954
Mean	0.953	0.984	0.960	0.991	0.965	0.993	0.977	0.985
P value	0.885		> 0.999		0.945		0.565	

Nef								
	VRC-B		Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	24	18	24	17	24	18	24	17
Median	0.801	0.993	1.000	0.895	1.022	0.940	0.793	0.982
Mean	0.876	0.947	1.006	0.872	1.127	0.875	0.867	0.926
P value	0.283		0.006		0.004		0.394	

Rev												
	Cons.B		Anc.B		HXB2		Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	18	8	18	8	17	7	3	2	3	2	2	2
Median	0.635	0.708	0.510	0.817	0.723	0.937	1.000	0.557	1.000	1.000	1.801	0.695
Mean	0.777	1.730	0.828	1.871	0.893	1.236	0.684	0.557	0.823	1.000	1.801	0.695
P value	0.196		0.126		0.126		> 0.999		> 0.999		0.667	

Vif												
	Cons.B		Anc.B		HXB2		Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	24	18	24	18	24	18	22	16	22	16	22	16
Median	0.839	0.919	0.835	0.924	0.930	0.912	0.821	0.855	1.004	0.954	0.856	0.849
Mean	0.847	0.927	0.809	0.926	0.906	0.957	0.963	0.833	1.161	0.965	0.955	0.828
P value	0.383		0.125		0.469		0.844		0.685		0.731	

Vpu						
	Cons.B		Anc.B		HXB2	
	Vaccine	Placebo	Vaccine	Placebo	Vaccine	Placebo
n	22	14	21	14	16	9
Median	0.615	0.942	0.572	0.806	0.481	0.894
Mean	0.877	0.841	0.847	0.720	0.819	0.905
P value	0.516		0.727		0.427	