

## Tables

Table S1. Plasma virus RNA levels in the cohorts of rhesus monkeys in the study.

<b>SIVmac251 Challenge (<i>Mamu-A*01-</i>)</b>			<b>Viral Load (copies/mL)</b>		<b>Viral Load (Log10)</b>	
	<b>ID</b>	<b>Monkey</b>	<b>Peak</b>	<b>Set-point</b>	<b>Peak</b>	<b>Set-point</b>
Control	1	AR92	68955530	285724171	7.84	8.46
	2	AR33	176193602	27597947	8.25	7.44
	3	AR10	20903048	191021	7.32	5.28
	4	2B2	141977351	82897090	8.15	7.92
	5	1C8	25933889	110842	7.41	5.04
	6	3C9	5489032	138792	6.74	5.14
	7	OC5	9934591	22455505	7.00	7.35
	8	BC38	5290881	439466	6.72	5.64
	9	BB69	81889171	5246557	7.91	6.72
	10	AP89	161107086	43935764	8.21	7.64
	11	AR27	55386949	91378143	7.74	7.96
	12	AP91	109525334	10208470	8.04	7.01
	13	AP31	37976419	73910	7.58	4.87
	14	AR65	9364500	7971248	6.97	6.90
	15	AO69	108211176	1286211	8.03	6.11
	16	8B2	849442	24781	5.93	4.39
	17	AO46	14131228	18504087	7.15	7.27
	18	AP65	3938891	350363	6.60	5.54
	19	OA6	20151080	126704128	7.30	8.10
	20	AM64	12097333	821286	7.08	5.91
Vaccine	1	A500	4644560	4046	6.67	3.61
	2	AS33	6761481	7746	6.83	3.89
	3	AS15	31150907	8629302	7.49	6.94
	4	AR70	10112346	2287152	7.00	6.36
	5	A511	11750571	214177	7.07	5.33
	6	9B0	8416298	33140	6.93	4.52
	7	7B9	17195379	320733	7.24	5.51
	8	AOO7	6095311	27806	6.78	4.44
	9	BB80	2941557	246390	6.47	5.39
	10	BB75	3362521	486021	6.53	5.69
	11	BB61	58760207	3810152	7.77	6.58
	12	AR59	1503563	4001	6.18	3.60
	13	AR60	15364226	3016912	7.19	6.48
	14	AR01	12295626	620687	7.09	5.79
	15	AR36	1506026	127489	6.18	5.11
	16	AP57	3396018	74057	6.53	4.87
	17	AP08	9423467	560205	6.97	5.75

18	AM74	603018	421541	5.78	5.62
19	AR30	266384	75558	5.43	4.88
20	AP03	4416040	712516	6.65	5.85

<b>SIVsmE660 Challenge (<i>Mamu-A*01-</i>)</b>			<b>Viral Load (copies/mL)</b>		<b>Viral Load (Log10)</b>	
	<b>ID</b>	<b>Monkey</b>	<b>Peak</b>	<b>Set-point</b>	<b>Peak</b>	<b>Set-point</b>
Control	1	ZA40	ND	ND	ND	ND
	2	AX73	723104	1084	5.86	3.04
	3	ZB42	4,497,517	5,652	6.65	3.75
	4	A4V014	5,641,744	442,157	6.75	5.65
	5	A4V019	3,274,384	47,026	6.52	4.67
	6	BC30	ND	ND	ND	ND
	7	A5V045	22,674,172	87,854	7.36	4.94
	8	DC1K	3,223,461	14,564	6.51	4.16
	9	05D215	1,864,111	30,138	6.27	4.48
	10	05D247	464,751	19,902	5.67	4.30
	11	A5V005	104,118,967	13,512,295	8.02	7.13
	12	A5V020	13,461,636	53,363	7.13	4.73
	13	A5V026	25,605,885	147,715	7.41	5.17
	14	A5V041	108,014	ND	5.03	ND
	15	A5V043	14,348,213	304,101	7.16	5.48
	16	A5V052	594,240	ND	5.77	ND
	17	A6V029	35,643,280	Dead	7.55	Dead
	18	A6V034	10,258,314	57,531	7.01	4.76
	19	A6V035	3,364,178	5550	6.53	3.74
	20	A6V041	4,108,185	80,483	6.61	4.91
	21	A6V040	ND	ND	ND	ND
	22	A6V063	84,856,448	2,691,872	7.93	6.43
	23	A5V021	2,098,497	95	6.32	1.98
	24	A6V098	4,378,172	1,877,101	6.64	6.27
	25	A6V005	48,194,149	262,246	7.68	5.42
Vaccine	1	R26	326,340	ND	5.51	ND
	2	00D338	ND	ND	ND	ND
	3	A4V013	16,848,072	100,232	7.23	5.00
	4	BB99	21906739	1090	7.34	3.04
	5	ZA74	9,077,689	502	6.96	2.70
	6	04D089	ND	ND	ND	ND
	7	DC86	ND	ND	ND	ND
	8	DC82	10,421,684	340,718	7.02	5.53
	9	05D218	ND	ND	ND	ND
	10	DC84	1,193,800	29,857	6.08	4.48
	11	X41	ND	ND	ND	ND

12	ZA16	ND	ND	ND	ND
13	ZB08	29,198,711	53470	7.47	4.73
14	A4V003	391,942	1257	5.59	3.10
15	BB81	ND	ND	ND	ND
16	BC26	2,870,733	277,639	6.46	5.44
17	DC0X	ND	ND	ND	ND
18	DC1M	733,110	385	5.87	2.59
19	DC1J	3,372,913	29,904	6.53	4.48
20	R05	142,111	159,058	5.15	5.20
21	AY18	ND	ND	ND	ND
22	ZB06	ND	ND	ND	ND
23	BB40	ND	ND	ND	ND
24	BB86	ND	ND	ND	ND
25	BC28	ND	ND	ND	ND

ND: not detected

<b>SIVsmE660 Challenge (<i>Mamu-A*01+</i>)</b>			Viral Load (copies/mL)		Viral Load (Log10)	
	ID	Monkey	Peak	Set-point	Peak	Set-point
Control	1	4252	7,267,365	1,723	6.86	3.24
	2	ARB0	22,155,935	77,184	7.35	4.89
	3	AR94	5,493,679	12,240	6.74	4.09
	4	A027	63,422	306	4.80	2.49
	5	AP54	173,257,661	482,199	8.24	5.68
	6	2B6	ND	ND	ND	ND
	7	1B5	ND	ND	ND	ND
	8	8B1	41,301,033	83,546	7.62	4.92
	9	9B3	ND	ND	ND	ND
	10	A6V036	ND	ND	ND	ND
	11	4B4	45,693,601	87,205	7.66	4.94
	12	A6V031	17,992,686	35,367	7.26	4.55
	13	A523	381,155	ND	5.58	ND
	14	A547	76,148,764	365,735	7.88	5.56
	15	AR21	136,539	98	5.14	1.99
	16	AP37	44,829,720	1,726,363	7.65	6.24
	17	AP62	524,793	27,667	5.72	4.44
	18	AR02	ND	ND	ND	ND
	19	AP34	3,180,695	36,845	6.50	4.57
	20	ZD57	454,956	142	5.66	2.15
Vaccine	1	4251	ND	ND	ND	ND
	2	AR81	40,128,589	807,173	7.60	5.91
	3	AR96	104,561	19	5.02	1.28
	4	2C1	ND	ND	ND	ND

5	BC20	ND	ND	ND	ND
6	A6V046	ND	ND	ND	ND
7	A532	705,860	959	5.85	2.98
8	AR56	195,590	223	5.29	2.35
9	AP21	ND	ND	ND	ND
10	AR44	ND	ND	ND	ND
11	AR34	555,616	2,131	5.74	3.33
12	AP32	ND	ND	ND	ND
13	AR03	ND	ND	ND	ND
14	AP77	116,581	20,081	5.07	4.30
15	AR76	ND	ND	ND	ND
16	AO18	288,458	394	5.46	2.60
17	ZD46	ND	ND	ND	ND
18	ZD51	ND	ND	ND	ND
19	ZD12	ND	ND	ND	ND

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ND: not detected