

Supplementary online Table 1.

Primer N ^o	Sequence 5'-3'	^a Target Amplification SIV Gag Sequence
9	AACTCCGTCTTGTCAGGG	KW9
5	GTTAATGCAATRTCKGATCC	KW9
82	TTTACCCARGCATTTAATGTTC	KW9
72	GGATCMGAYATWGCAGGRAC	AF9
3	AGAGAGAATTGAGGTGCAGC	AF9
8	ACACTGCTGATTCAAAATGC	AF9

^a PCR conditions for all primers were: 98°C for 30"; 35 cycles at 98°C for 10", 51°C for 30", and 72°C for 12"; final extension at 72°C for 7'

Supplementary online Table 2.

Cloning and sequencing data on AF9 and escape and reversion KW9 escape.

Animal	Day post infection	Viral Sequence ^a	Number of clones
SIV _{mac239}		A L A P V P I P F	
4253^a (AF9 escape)	7	. . . . .	9/9
	14	. . . . . . . T	10/11 1/11
	21	. . . . . . F	27/28 1/28
	24	. . . . . . F V T A G S S T - -	8/28 1/28 1/28 2/28 3/28 3/28 7/28 1/28 1/28 1/28
	28	. . . . . . F V T A G S Q S - -	6/37 3/37 1/37 6/37 2/37 7/37 9/37 1/37 1/37 1/37
	42	. . . - - - - . V	41/42 1/42
	56	. . . . . . . . - - . . . . .	1/28 27/28
	77	. . . . . V S - -	4/23 1/23 18/23

5904^b (AF9 reversion)	6	. . . . .	2/14
		. . . - -	9/14
		. . . . A	2/14
		. . . . R	1/14
	14	. . . - -	10/14
		. . . . A	1/14
		. . . . R	2/14
		. . . . G	1/14
	28	. . . . .	2/15
		. . . - -	9/15
		. . . . A	3/15
		. . . . R	1/15
	35	. . . - -	4/18
		. . . . A	13/18
		. . . . G	1/18
	46	. . . . .	1/15
	. . . - -	3/15	
	. . . . A	10/15	
	. . . . G	1/15	
63	. . . . A	8/16	
	. . . . R	3/16	
	. . . . G	4/16	
	. . . . . S	1/16	
77	. . . . A	7/14	
	. . . . R	4/14	
	. . . . G	3/14	
91	. . . - -	1/17	
	. . . . A	11/17	
	. . . . G	5/17	
6175^b (AF9 reversion)	6	. . . . .	5/17
		. . . - -	9/17
		. . . . A	2/17
		. . . . M Q	1/17
	14	. . . . .	6/13
		. . . . A	3/13
		. . . - -	4/13
	28	. . . . .	4/14

		. . . - -	5/14
		. . . . A	5/14
35		. . . . . . . . .	9/15
		. . . - -	4/15
		. . . . A	2/15
46		. . . . . . . . .	9/20
		. . . - -	4/20
		. . . . A	5/20
		. . . . . S	2/20
63		. . . . . . . . .	5/15
		. . . - -	1/15
		. . . . A	6/15
		. . . . . S	3/15
77		. . . . . . . . .	12/15
		. . . . A	2/15
		. . . . . V	1/15
91		. . . . . . . . .	12/15
		. . . . A	3/15

SIV _{mac239}		K Y M L K H V V W	
4296	7	. . . . . . . . .	21/24
(KW9			
escape)		R	3/24
	14	. . . . . . . . .	21/29
		R	8/29
	21	. . . . . . . . .	17/22
		R	4/22
		. . R	1/22
	35	4/21
		R	17/21
	56	R	23/23

6274^c			
(KW9			
Reversion)	14	R	10/10
	28	R	18/18

	46	R	14/14
	75	R	14/14
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6366^c (KW9 Reversion)	14	R	12/12
	28	R	20/20
	46	R	15/15
	75	R	15/15
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^a Wild-type AF9 and KW9 viral sequence aligned with SIV_{mac239}.
 (.) denotes consensus, (-) amino acid deletion

^b Naive macaques infected with SHIV escape mutant ALA- -PIPF

^c Naive macaques infected with SHIV escape mutant RYMLKHVVW