

Supplemental Table 1. MHC class I alleles expressed by twenty SIV-infected Indian rhesus macaques included in this study. The full complement of MHC class I alleles expressed by SIVmac239 (WT)-infected (part A) and 8X-infected (part B) macaques was determined. RNA was isolated from animals' PBMC, converted to cDNA, amplified with primers specific for a variable region of macaque MHC class I genes, and pyrosequenced as described previously (54). The table shows transcript levels as a fraction of the total MHC class I sequence reads for each animal. Transcripts making up 1-5% of reads are colored light orange, 5-30% darker orange, and greater than 30%, red. We report only the alleles that were scored positive in this table. We had previously excluded *Mamu-B*17+* macaques from this study by PCR-SSP (26). Transcript levels greater than 30% of total reads are consistent with homozygosity at a locus. Set-point viral load status is indicated beneath the animal's identification number. (P) indicates animals with viral loads >20,000 vRNA copy eq/ml plasma, (C) indicates animals with viral loads <20,000 vRNA copy eq/ml plasma, and (EC) indicates animals with viral loads <1,000 vRNA copy eq/ml plasma. *Mamu-B*08* is highlighted in blue in the list of alleles.

Animal ID
Viral load status
A1*00101;A1*00102
A1*00201
A1*003g
A1*004g
A1*00602
A1*00701/03/05/06
A1*00801;A1*00801like
A1*01101/02/03/04
A1*019g
A1*0250202
A1*02601/0102/01like
A1*02801;AG*02011
A2*0501/0202/09/16/27
A2*05g
A2*2401
A3*1301/02/04/06/07;A4*1406
A3*1303/11
A3*1305/10/10like;A4*0301/02
A4*0204
A4*140301/01like2/0302/405/09
A6*0101/02/03/04/04like
A7*0106
Mm-A* nov006
Mm-A* nov030

B*0010101
B*00501/02
B*00601/02
B*00702/03
B*00801
B*01201
B*01901/03
B*02001;B*06803
B*02101/03
B*02201
B*02801
B*03001/0301/0302/0303/04
B*03002/05
B*03101/02
B*03501;B*04901
B*03801(primer mismatch)
B*04001/02
B*044g
B*04503
B*0460101/0202/09/15
B*0460102/0103/0201/08
B*04701;B*047like
B*04702;B*04704;B*07101
B*05102
B*05104
B*05302
B*05701
B*02601;B*05702
B*06001
B*06002
B*06003
B*0680102/02/05
B*07001
B*07201/02
B*07401/02/02-V1
B*07902
B*07904
B*08001
B*08101/02
B*08201
B*08202
B*08301
B*09201
B*09601
Mm-B* nov001
Mm-B* nov002
Mm-B* nov005
Mm-B* nov007
Mm-B* nov012
Mm-B* nov017
Mm-B* nov020
Mm-B* nov021
Mm-B* nov023
Mm-B* nov038
Mm-B* nov039
Mm-B* nov040
Mm-B* nov074
I'g

E*01g;E*07g
E*0104;E*06
E*0112
E*0113
E*02
E*0201
E*030101;E*08
E*0901
Mm-E* nov006
Mm-E* nov007
Mm-E* nov013
F*0102;F*0104;F*0104like
F*0103;F*0105

r98030	rh2258	r02120	r96009	r03028	r97072	r03035	r04072	r01088	r04135
P	P	P	P	P	P	P	P	EC	EC
					13.4			31.3	15.0
	30.6	17.8		17.7					0.2
			30.0	11.6	14.6	15.0	16.1		
18.4							13.3		
						4.8			
11.7									
		13.5							
2.0					0.2		0.2		
1.6						2.7			
								0.2	8.2
	3.0	2.0		2.5					2.9
									2.4
1.7	1.4	2.2	6.6	2.5	3.2	1.5	4.4		
0.4						0.8			
		0.3	0.2	0.2			0.5		

		9.5							
9.4	4.3	4.6	4.6	4.1	4.4	4.0	6.0	4.5	2.8
		10.3							
30.9	19.1	13.4	17.4	15.8	18.3	13.7	20.9	12.4	13.1
	8.1		6.0	5.8	6.2	7.8	6.8	5.1	
									2.8
			4.3		3.6	5.2	4.9	4.7	4.6
									12.3
	2.4		3.5	2.3	2.4	1.4	3.0	3.7	
		2.4							
			2.5		2.4		3.8	2.5	
					0.2	0.2		0.1	
	0.3			5.0					
									0.8
	0.3			0.4		1.6			
									0.2
0.2	0.3	0.2	1.1	0.4	0.4	0.3		0.4	0.2
0.4			0.7	1.2	0.5	1.2	0.8	0.4	
	0.3		2.2	2.7	2.1	2.3	4.1	1.5	
	1.3								
									0.2
	0.8			0.2	0.2	0.5		0.1	
3.8	4.9	4.0	1.4	3.8	3.0	4.2	2.5	0.7	2.2
	4.3		5.9	4.3	5.3	11.6		4.0	
1.8	0.5	0.6			1.7	2.5		2.4	1.4
									1.7
	3.9			3.2					
		0.2		0.2					
		0.2		0.2			0.2		
		0.3						0.4	
	1.1		0.6	0.5	0.6	1.0			
									1.4
									5.1
									4.9
			0.6		0.2		0.2	0.1	
0.3	0.8	1.5	1.5	1.1	0.5	0.7	1.0	1.0	0.8

16.1	6.0	8.0			6.8	7.7	7.3	23.4	10.3
	5.2	8.3	8.4	8.0	8.5	8.6			
	0.3	0.7	0.3	1.0	0.5	0.5			
			2.1	5.0			3.5		6.3
	0.8				0.4			0.6	0.5
0.6									
							0.4	0.3	
0.7					0.2				

r96141	rh2029
EC	P
17.3	12.9
	10.8
12.3	
0.6	0.7
	3.4
0.9	

2.9	
8.8	
	6.4
6.4	
	19.5
4.7	
1.2	
	8.6
	10.2
12.7	
0.5	0.3
0.9	
4.3	
	2.2
	5.0
	2.6
	0.7
5.4	
0.3	
0.3	
	2.0
	1.4
	5.1
	4.9
2.1	1.2

	13.5
0.5	
6.1	
11.7	
	0.2

1B.
8X-
infected
animals