Supplementary Table 1: Full MHC typing of the cynomolgus monkeys used in these studies

Animal ID	CM123	B1117	CM116	CM117	CM118	B1117	CM122	CM119
Total Class I Reads Identified	36,066	1,866	202,590	171,380	14,701	1,866	128,366	92,363
Mafa-A Haplotype 1	A016	A080	A101b	A007	A101b	A080	A004	A092
Mafa-A Haplotype 2	A003	A086	A004	A088	A091	A086	A006	A008
Mafa-B Haplotype 1	B147a	B0136	B094a	B008b	B064a	B0136	B038b	B0666
Mafa-B Haplotype 2	B0286	B184	B066c	B164	B147b	B184	B002	B184
Mafa-DRB Haplotype 1	DR17	DR19	DR15	DR04	DR15	DR19	DR08	DR14a
Mafa-DRB Haplotype 2	DR09c	DR21	DR13	DR13	DR08a	DR21	DR03a	DR03a
Comments			shared DRB	shared DRB			shared DRB	shared DRB
Mafa-A1								
A1*003:01	2,298							
A1*004:03			16,947				15,270	
A1*006:01/A1*006:01:01, A1*006:01:02							10,954	
A1*007:02/A1*007:02, A1*007:nov:02				10,886				
A1*008:02								16,708
A1*018:03/A1*018:SP:exp13367:ctg4888:138:3000p, A1*018:SP:exp13367:ctg4891:173:3000p	2,739							
A1*019:03								
A1*040:02/A1*040:02, A1*040:nov:01								
A1*066:01/A1*066:01:01, A1*066:01:02, A1*066:05		369				369		
A1*080:01/A1*080:04, A1*080:nov:01			8,621		720			
A1*086:02/A1*086:02:01, A1*086:03, A1*086:05		411				411		
A1*087:01								
A1*088:01/A1*088:02, A1*088:03, A1*088:nov:01, A1*088:nov:02, A1*088:w:02				369				
A1*089:01, A1*088:02				26,357				
A1*090:SP:exp3386:ctg2710:23:3000p								
A1*090:01/A1*090:01, A1*090:nov:01, A1*090:nov:03, A1*090:SP:exp13367:ctg3216:11:3000p								2,846
A1*091:nov:03					1,263			
A1*092:02/A1*092:02, A1*092:03								4,891
A1*101:01			18,916		1,237			
A1*103:01/A1*103:01, A1*103:02				41				
Mafa-A2/A3/A4/A5/A6								
A2:05/01/A2:05:36 alleles	74	10		289		10	472	
A2:05:02/A2:05:13, A2:05:16, A2:05:25/01, A2:05:25:01, A2:05:27, A2:05:36, A2:05:03, A2:05:54, A2:05:w:21			177				182	108
A4:01:01/A4:13:06, A4:13:10, A4:13:nov:01, A4:01:01, A4:01:03:01, A4:01:06, A4:01:05, A4:01:10, A4:03:01, A4:03:nov:01, A4:01:SP:exp14060:ctg20194:27:3000p			4,097				6,198	
A4:01:02/A4:13:05, A4:13:nov:04, A4:01:02, A4:01:04, A4:01:nov:01, A4:01:SP:exp396:ctg4806:49:3000p, A4:14:nov:01			4,857		299			
A4:03/A4:13:16, A4:13:SP:exp396:ctg5032:32:3000p, A4:02:w:01, A4:05:02, A4:03:SP:exp396:ctg5037:13:3000p								1,114
A4:14:01/A4:14:03, A4:14:04, A4:14:06, A4:14:nov:02, A4:14:SP:exp14060:ctg2099:28:3000p					344			
A4:14:03/A4:13:SP:exp13367:ctg2189:13:3000p, A4:14:01, A4:14:02, A4:14:05, A4:14:07, A4:14:08:01, A4:14:10, A4:14:SP:J4408:ctg914:35:3000p, A4:14:SP:exp13367:ctg2196:20:3000p	476			2,985				
A5:08/01/A5:08:01, A5:08:02, A5:08:nov:04		25				25		
A6:01/g/A6:01:01, A6:01:05, A6:01:w:01, A6:01:SP:exp396:ctg3033:21:3000p		11				11		
Mafa-B								
B:002/01B:002:9 alleles, B:136:2 alleles							5,180	
B:004:02								8,133
B:004/01B:004:03, B:004:nov:01:01, B:004:nov:01:11, B:004:nov:02, B:004:nov:03, B:004:SP:exp13367:ctg5033:5:3000p			22,247		1,349			
B:007/02B:007:01:02, B:007:01:05, B:007:nov:05, B:007:w:01, B:007:w:03								
B:008/01B:008:nov:03, B:008:SP:exp13367:ctg2759:5:3000p				15,858				
B:011/01B:011:01, B:011:02			2,273		116			1,458
B:013:11		119				119		
B:021/01B:021:01, B:021:nov:01, B:021:nov:02	862							
B:022:01			8,494					
B:025/01B:025:nov:01, B:025:nov:02, B:025:w:01							4,866	
B:027/01B:027:01, B:027:02, B:027:nov:01, B:027:nov:02, B:044:08	514				308			
B:028/01B:028:03, B:028:05, B:028:w:01, B:028:w:02	2,084							
B:030/01B:030:19 alleles	2,112			4,962				
B:033:03								
B:036/01B:036:01:01, B:036:01:02, B:036:02, B:036:nov:02, B:036:nov:03, B:036:SP:J4408:ctg1875:44:3000p							1,940	
B:039/01B:039:nov:01, B:168:01				1,067				
B:041:nov:01								
B:041:nov:02	811							
B:044/01B:044:01:01, B:044:01:02, B:044:03, B:044:nov:01								861
B:044:02/B:044:04, B:044:05, B:044:07		69				69		
B:045:SP:exp13367:ctg5487:8:3000p	162							
B:045:02/B:045:nov:02, B:045:SP:exp13367:ctg2247:91:3000p							2,156	
B:045:03/B:045:nov:03, B:045:nov:04				11,949				
B:046:01/A*							13	
B:046:13		10				10		
B:046:14	19							
B:046:02/B:046:03, B:046:05, B:046:11							572	
B:046:03/B:046:04, B:046:06, B:046:09								
B:046:02/B:046:02:01, B:046:02:02, B:046:SP:exp13367:ctg4988:16:3000p								
B:050:03/B:050:01, B:050:02, B:050:04, B:078:04							1,931	
B:051:07							353	
B:051:SP:exp13367:ctg3330:5:3000p			474		188			
B:051:SP:exp13367:ctg5022:5:3000p	90							
B:051:02/B:051:05, B:051:06:01, B:051:06:02, B:051:06:03								112
B:054:nov:03	1,828							
B:056:01/B:056:01:01, B:056:02:01, B:056:02:02, B:056:w:01			10,397					5,097
B:060:nov:02							2,290	
B:060:01/B:060:02, B:060:03:01, B:060:03:02, B:060:04, B:060:05, B:060:06, B:060:nov:06, B:060:nov:08, B:060:nov:09, B:060:nov:10, B:060:nov:11, B:060:SP:exp14060:ctg870:20:3000p		12	2,028	2,847		12		
B:060:08/B:060:05:01, B:060:05:02, B:060:06, B:060:07							135	
B:063:B:063:01, B:063:02	31							
B:067:01/B:067:nov:01, B:067:SP:exp13367:ctg2883:162:3000p							2,896	
B:070:01/B:070:w:04, B:070:01:01, B:070:01:02, B:070:02:01, B:070:02:02, B:070:03, B:070:nov:01	108							
B:072:SP:exp13367:ctg5676:18:3000p			2,139	2,483	114		1,286	
B:075/01B:075:01, B:075:02		45		1,335		45		
B:075:02/B:075:nov:02, B:075:nov:07, B:075:nov:09				433				
B:075:03/B:075:nov:03, B:075:SP:J4408:ctg2144:8:3000p		39		467		39		
B:076:nov:02	21			291	50		278	
B:079:01								
B:079:03/B:079:01 alleles, B:170:1 allele	234		1,386	1,997	450			1,287
B:083:02/B:083:01:01, B:083:02:01, B:083:03	1,273							
B:088:SP:exp13367:ctg3519:27:3000p								177
B:089:03/B:089:01:01, B:089:01:02, B:089:01:03, B:089:02, B:089:nov:01, B:089:w:01, B:089:w:02	401			30				
B:090:01								
B:097:w:01				66				
B:098:02/B:098:02:01, B:098:03, B:098:nov:02, B:098:nov:03	109			2,483			439	
B:099:04/B:099:06, B:099:07				1,335				
B:109:02/B:109:SP:exp13367:ctg2892:26:3000p, B:109:SP:exp13367:ctg2892:V1:5:3000p				433				
B:108:03/B:108:02, B:108:03, B:108:06, B:108:08:01, B:108:08:01, B:166:nov:01			248	467	240			
B:112:08/B:112:nov:01, B:112:SP:exp14060:ctg13796:11:3000p								
B:164:01	7					7		
B:115:01								
B:115:03								74
B:116:SP:exp13367:ctg5942:30:3000p	219							
B:117:01							9,399	
B:119:nov:01		33				33		
B:127:nov:01					58			
B:137:02		193				193		
B:147:01/B:147:01, B:147:02, B:147:03, B:147:SP:exp14060:ctg7063:62:3000p					1,290			
B:147:02/B:147:nov:01, B:147:SP:exp13367:ctg3442:3:3000p	1,864							
B:149:01/B:149:01, B:149:02, B:149:SP:J4408:ctg2538:7:3000p, B:149:SP:J4408:ctg2942:5:3000p					330			
B:151:01/B:151:02:01, B:151:02:02, B:151:nov:01	369							
B:154:01/B:154:nov:01, B:154:w:02, B:154:w:03, B:154:w:04								6,642
B:155:01/B:155:01, B:155:w:01, B:155:w:02, B:155:SP:exp13367:ctg3912:15:3000p								2,112
B:163:01			330					
B:162:02					134			
B:164:01/B:164:01, B:164:02		210				210		
B:165:01/B:165:01, B:165:02	36							
B:169:02								
B:184:01/B:184:01, B:184:nov:01				9,863				
B11L:01:05		3		13		3		
B11L:01:nov:01	96							
B11L:01:SP:exp13367:ctg2918:5:3000p				40				18
B11L:01/g/B11L:01:01, B11L:01:SP:exp13367:ctg2011:11:3000p	6		13				11	63
B16:01/g/B16:01:01, B16:01:03, B16:01:11	38				101			
B18:02:06:2/B18:06:SP:exp13600:ctg7:2046:15:3p	42							
B16:01/B18:01:01, B18:01:02	31				90			
B17:01/B17:01:01, B17:01:02, B17:01:03, B17:01:04	39				312			
Mafa-I								
I:01:SP:exp13367:ctg5095:34:3000p								397
I:01/g/I:01:01 alleles	213	10	2,367	1,875	281	10	2,217	169
I:03:01:01:01, I:03:01:02, I:03:SP:exp396:ctg3381:16:3000p								
Mafa-DRB1								
DRB1*03:23							3,313	
DRB1*03:36								
DRB1*03:01/DRB1*03:03, DRB1*03:30								
DRB1*03:01/DRB1*03:12:01, DRB1*03:38								
DRB1*04:02:01		6				6		
DRB1*04:18								
DRB1*07:02:02								97
DRB1*10:02		15				15		
Mafa-DRB3								
DRB3*04:01/DRB3*04:07, DRB3*04:10			13,387		297			
Mafa-DRB4								
DRB4*01:08								108
Mafa-DRB5								
DRB5*03:01:03								
DRB5*03:10			8,243		191			
Mafa-DRB*W								
DRB*W13/DRB*W1:01, DRB*W1:07			13,021	10,111				
DRB*W2:01							3,977	
DRB*W2:07								
DRB*W3:04								
DRB*W3:01	89				52			
DRB*W3:08			6,318	4,470				
DRB*W4/DRB*W4:01, DRB*W4:08		4				4		
DRB*W6/DRB*W6:01, DRB*W6:06, DRB*W6:07, DRB*W6:nov:05							810	
DRB*W7:03					54			
DRB*W7/DRB*W7:02, DRB*W7:07	85							
DRB*W20:01	349							
DRB*W21/g/DRB*W21:01, DRB*W21:w:01							5,214	3,925
DRB*W21/g/DRB*W21:04, DRB*W21:nov:02								
DRB*W26:02:01			5,354	3,912				2,144
DRB*W27:01							17,325	12,734
DRB*W33/DRB*W33:01:01, DRB*W33:04				4,167				
DRB*W36:02:01				5,082				
DRB*W49/DRB*W49:01:01, DRB*W49:01:02		6				6		
DRB*W80:01	851							
DRB*W80:01								
Mafa-E								
E:02:03								
E:02/g/E:02:01, E:02:02, E:02:w:02				207				
E:02/2:02:02:01 alleles, E:02:SP:exp14060:ctg1145:13:3000p	2,881		30,165	25,155	3,025		12,358	10,071
E:02/g/E:02:nov:01, E:02:nov:02, E:02:SP:exp396:ctg1094:23:3000p, E:02:SP:exp13367:ctg1218:426:3000p, E:02:SP:exp13367:ctg1227:655:3000p								
E:02/g/E:02:nov:07, E:02:SP:J4408:ctg102:10:3000p			443		219		363	
E:02:01/E:02:nov:20, E:02:SP:exp396:ctg384:761:3000p, E:02:SP:exp396:ctg387:81:3000p		228		20,998		228		
E:02/g/E:02:nov:21, E:02:SP:J4408:ctg98:9:3000p	2,069							7,752
E:02/g/E:02:w:04, E:02:w:06, E:02:SP:J4408:ctg191:6:3000p, E:02:SP:exp396:ctg266:246:3000p, E:02:SP:exp13367:ctg583:201:3000p		21	20,382			21	16,094	
E:02/g/E:02:SP:J4408:ctg266:6:3000p, E:02:SP:J4408:ctg5269:5:3000p				252				
E:02:nov:08	69							104
E:02:nov:16			790		201		438	
E:02:nov:22	144							325
E:02:nov:23				739				
E:02:w:02								
E:02:SP:exp13367:ctg167:22:3000p			689		198			
E:02:SP:exp13367:ctg362:56:3000p							928	739