## SUPPLEMENT TABLE 1

Listing of GenBank accesssion numbers for new Mamu-KIR3DH, 1D and 2DL4 alleles.

		GenBank Accession No.
KIR3DH	allele 1	GU564157
	allele 4	GU564158
	allele 5	GU564159
	allele 6	GU564160
	allele 7	GU564161
	allele 8	GU564162
	allele 9	GU564163
	allele 10	GU564164
	allele 11	GU564165
	allele 12	GU564166
	allele 13	GU564167
	allele 14	GU564168
KIR1D	allele 9A	GU564169
	allele 9B	GU564170
	allele 10A	GU564171
	allele 10 B	GU564172
	allele 11	GU564173
	allele 10sv1	GU564174
	allele 11sv1	GU564175
KIR2DL4	allele 3	GU564176
	allele 4	GU564177
	alllele 5	GU564178
	allele 6	GU564179
	alllele 7A	GU564180
	allele 7B	GU564181

#### SUPPLEMENT FIGURE 1 A and B

Alignment of the Mamu-KIR2DL4 sequences of alleles 1, 2, 3, 4, 5, 6, 7 A and 7B at the (A) nucleotide and (B) amino acid level

# (A) nucleotide level

Signal peptide Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-6 KIR2DL4 allele-6 KIR2DL4 allele-7B		
Do domain Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-5 KIR2DL4 allele-6 KIR2DL4 allele-7B		.43 .43 .22 .22 .22 .22 .22 .22
Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-5 KIR2DL4 allele-7A KIR2DL4 allele-7A		223 202 202 202 202 202 202 202 202
Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-5 KIR2DL4 allele-7A KIR2DL4 allele-7A		803 803 882 882 882 882 882 882 882
Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-5 KIR2DL4 allele-7A KIR2DL4 allele-7B	TCCCCCACTGAGTGGTCGGCAACCCAGCAACCCCTGGTGATCATGGTCACA 354 354 333 333 333 333 333 333 333 333	

GGTCTATATGAGAAAACCTTCTCTCAGCCCAGCCGGGCCCCACGGTTCCCACAGGAGAGAACATGACCTTGTCCTGCA	
T	49
TCAATGGAACATTCCAGGCTGACTTCCCTCTGGGCCCTGCCACCCAC	
	-
GACTCTCCCTACGAGTGGTCAGACCCAAGTGACCCACTGCCCGTTTCTGTCACA	
GGAAACCCTTCAAGTAGTTGGCCTTCACCCACTGAACCAAGCTTCAAAA-CTGGTATCGTCACACACCTGCCT	
720	)
	)
699	•
699	-
	-
	5
n	
GCTGTGATTAGGTACTCGGTGGCCACCATCTTCCTCACCATCCTCTTCTTTCT	
AT	
CCATCGTTGCTGGTGCTCCGACAAAAA-GAATGCTGCTGTTAATGGACC	
CCATCGTTGCTGGTGCTCCGACAAAAA-GAATGCTGCTGTAATGGACC 823	

KIR2DL4 allele-1 and allele-2 refer to GenBank ac. no. EU702486 and AY728182, respectively.

### (B) amino acid level

Signal peptide Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-5 KIR2DL4 allele-6 KIR2DL4 allele-7 KIR2DL4 allele-7B	LACLGFFLDQRVRA MSPTVVI	1 4 4 4 4 4			
Do domain Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-3 KIR2DL4 allele-5 KIR2DL4 allele-6 KIR2DL4 allele-7A KIR2DL4 allele-7B	HVGGQDKPFCSAWPSAVVPQGGHVT G		.V		118           118           111           111           111           111           111           111           111           111           111
D2 domain Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-5 KIR2DL4 allele-6 KIR2DL4 allele-7 KIR2DL4 allele-7B	G			. C	
Stem Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-6 KIR2DL4 allele-6 KIR2DL4 allele-7B	GNPSSSWPSPTEPSFKTGIVTHLP TR A*.R GNWYRHTPA ETLQVVGLH.LNQAS.LVSPHTCL ETLQVVGLH.LNQAS.LVSSHTCL	240 240 233 233 233 233 233 233 233	Transmembrane doma: Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-6 KIR2DL4 allele-6 KIR2DL4 allele-7A KIR2DL4 allele-7B	IN AVIRYSVATIFLTILLFFL I V CCD*VLGGHHLPHHPPLLS L*LGTRWPPSSSPSSSS.S L*LGTRWPPSSPSSSS.S	259 259 252 252 252 252 252 252 252
Cytoplasmic tail Consensus KIR2DL4 allele-1 KIR2DL4 allele-2 KIR2DL4 allele-3 KIR2DL4 allele-4 KIR2DL4 allele-6 KIR2DL4 allele-6 KIR2DL4 allele-7B	HRCWCSDKKNAAVMD 				

\* stop codon

KIR2DL4 allele-1 and allele-2 refer to GenBank ac. no. EU702486 and AY728182, respectively.

### SUPPLEMENT FIGURE 2

Alignment of Mamu-KIR2DL4 sequences of 6 clones from 6 monkeys with "early" stop codons showing > 98% homology with Mamu-KIR2DL4 allele 5

consensus	$eq:label_$	358
2DL4 mm 04 clone 2.seq	$eq:label_$	358
2DL4 mm 20 clone 1.seq	$eq:label_$	358
2DL4 mm 22 clone 5.seq	LACLGFFLDQRVRAHVGGQDKPFCSAWPSAVVPQGGHVTLWCHYRPGFNIFTLYKEDGVPVPELYKRIFWNSFLISPVTAAHAGTY*CRVFHPHSPTEWSAPSNPLVIMVTGLYEKPSLS	358
2DL4 mm 25 clone 2.seq	LACLGFFLDQRVRAHVGGQDKPFCSAWPSAVVPQGGHVTLWCH*RPGFNIFTLYKEDGVPVPELYKRIFWNIFLISPVTAAHAGTYRCRVFHPHSPTEWSAPSNPLVIMVTGLYEKPSLS	358
2DL4 mm 26 clone 1.seq	$eq:label_$	358
2DL4 mm 33 clone 4.seq	$eq:label_$	358
consensus	AQPGPTVPTGENMTLSCSSRRSFDMYHLSREGEAHELRLPAVPSVNGTFQADFPLGPATHGGNYRCFGSLRDSPYEWSDPSDPLPVSVTGNPSSSWPSPTEPSFKTGIVTHLPAVIRYSV	718
2DL4 mm 04 clone 2.seq	AQPGPTVPTGENMTLSCSSRRSFDMYHLSREGEAHELRLPAVPSVNGTFQADFPLGPATHGGNYRCFGSLRDSP*EWSAPSDPLPVSVTGNPSSSWPSPTEPSFKTGITRHLPIVIRYSV	718
2DL4 mm 20 clone 1.seq	A*PGPTVPTGENMTLSCSSRRSFDMYHLSREGKAHELRLPAVPSVNGTFQADFPLGPATHGGNYRCFGSLRDSPYEWSDPSDPLPVSVTGNPSSSWPSPTEPSFKTGFVTHLPAVIRYSV	718
2DL4 mm 22 clone 5.seq	AQPGPTVPTGENMTLSCSSRRSFDMYHLSREGEAHELRLPAVPSVNGTFQADFPLGPATHGGNYRCFGSLRDSPYEWSDPSDPLPVSVTGNPSSSWPSPTEPSFKTGIVTHLPAVIRYSV	718
2DL4 mm 25 clone 2.seq	AQPGPTVPTGENMTLSCSSRRSFDMYHLSREGEAHELRLPAVPSVNGTFQADFPLGPATHGGNYRCFGSLRDSPYEWSDPSDPLPVSVTGNPSSSWPSPTEPSFKTGIVTHLPAVIRYSV	718
2DL4 mm 26 clone 1.seq	AQPGPTVPTGENMTLSCSSRRSFDMYHLSREGEAHELRLPAVPSVNGTFQADFPLGPATHGGNYRCFGSLRDSPYEWLDPSDPLPVSVTGNPSSSWPSPTEPSFKTGIVTHLPAVIRYSV	718
2DL4 mm 33 clone 4.seq	AQPGPTVPTGENMTLSCSSRRSFDMYHLSREGEAHELRLPAVPSVNGTFQADFPLGPATHGGNYRCFGSLRDSPYEWSDPSDPLPVSVTGNPSSSWPSPTEPSFKTGIVRHLPAVIRYSV	718
consensus	ATIFLTILLFFLHRCWCSDKKNAAVMDP 802	
2DL4 mm 04 clone 2.seq	ATIFLTILLFFLLRCWCSDKKNAAVMDP 802	
2DL4 mm 20 clone 1.seq	ATIFLTILLFFLHRCWCSDKKNAAVMDP 802	

2DL4	mm	20	clone	1.seq	ATIFLTILLFFLHRCWCSDKKNAAVMDP	802
2DL4	mm	22	clone	5.seq	ATIFLTILLFFLHRCWCSDKKNAAVMDP	802
					ATIFLTILLFFLHRCWCSDKKNAAVMDP	802
2DL4	mm	26	clone	1.seq	ATIFLTILLFFLHRCWCSDKKNAAVMDP	802
2DL4	mm	33	clone	4.seq	ATIFLTILLFFLLRCWCSDKKNAAVMDP	802

#### SUPPLEMENT FIGURE 3

Mamu-KIR1D variants of allele 9A and 9B showing deletions of thymine at position 623 (allele 9A) and adenine at position 662 (allele 9B) using the sequence of KIR1D allele 8 (previously designated KIR3DL7) as a consensus sequence

Cytoplasmic tail				
KIR1D allele-8	AGGAGGTGACATACGCACAGTTGGATCACTGCGTTT	<b>F</b> CACACAGGGAAAAATCACTTGCCCTTCTCAGAGGTCCA	AGAGACCCCCAACAGATACCAGCGT	686
KIR1D allele-9A	·	<mark>-</mark>		691
KIR1D allele-9B			<mark>-</mark>	691