

Table S1. Primers used in this study

Primer Name	Primer Sequence (5' -> 3')	Details	
IR037	AAATGGTATCATGCCAAATCTAAACCCAAGC	RanBP2 amplicon (5684 bps) containing RanCyp domain	Amplify and sequence RanCyp and CypA
NRM038	CTGCAATTTTACATTTGTAAATCGGAACGCTC	Phusion in HF buffer + 3% DMSO - 58°C anneal - 1 min 40 s elongation	
NRM376	GARCAATAGTGTACTACAGAGG	Sequencing primers for RanCyp domain	
NRM377	GGACTGCTGAGAATCTCAGAGC		
NRM445	TGGTATAAAAGGGGGGGGAGG	CypA amplicon (756 bps)	Generate TRIM-RanCyp chimeras
NRM448	CATAAACTTAACCTGCAATCCAGCTAGG	Phusion in HF buffer - 60°C anneal - 15s elongation	
NRM447	AACCCAAAGGAACCTGACGCG	Sequencing primer for CypA	
NRM523	GGTCTGGTGTCTGGTCT ATGGCTTCCGAATCCTGGTCAATA	Owl monkey TRIM-Cyp RBCC fragment containing N-term linker for HA addition and C-term overlap for human, chimp, gorilla, orangutan, red-capped mangabey, and titi monkey RanCyp	
NRM524	CCACAGGATTTGGTCTCCCTTTGATAAGGCTGATGCTACAAGGTCC	Used with NRM523 to generate TRIM-Cyp fragment with C-term overlap for marmoset RanCyp	
NRM525	CCACAGGATTTGGTCTCCCTTTGATAAGGCTGATGCTACAAGGTCC		
NRM526	GGACTTGTAGCATCAGCCTTATCAAGGAGACCAATCCTGTGG	RanCyp domains containing N-term overlap with owl monkey TRIM-Cyp RBCC fragment	
NRM527	GGACTTGTAGCATCAGCCTTATCAAGGAGACCAATCCTGTGG	NRM526/NRM510 - human, chimp, gorilla, orangutan, red-capped mangabey fragments	
NRM510	TCATATCTGTCCAACTCTGTGATAG	NRM527/NRM511 - marmoset fragment	
NRM511	TCAAATCTGTCCAACTCTGTGATAG	NRM526/NRM511 - titi monkey fragment	
NRM531	TTAAGTTTCCACACTCAGCAATGG	Used with NRM523 to generate full-length owl monkey TRIM-Cyp with N-term epitope linker	
NRM530	TGCGCACCATGGGTTAGCCATAACGAGCTCCACAGACTACGCCGTGGTGGTGGTGGT	Adds N-terminal HA tag	
NRM1136	CATGATGGAACAGGGCAGCAGTCCATTTATGGAGACAAT	G75R point mutation in the human TRIM-RanCyp background	Generate TRIM-RanCyp mutants
NRM1137	CATAAATGGACTGTCTGCGCTTCCATCATGTTTGGTGT		
NRM1138	CATGATGGAACAGGGCAGCAGTCCATTTATGGAGACAGAT	R75G point mutation in the gorilla TRIM-RanCyp background	
NRM1139	CATAAATGGACTGTCTGCGCTTCCATCATGTTTGGTGT		
NRM1140	CCATTTATGGAGACAGATTTGAAGATGAAATTTTGATGT	K82R point mutation in the human TRIM-RanCyp background	
NRM1141	TTTTCACTTCAAATCTGTCTCCATAAATGACTGTCCCG		
NRM1142	CCATTTATGGAGACAGATTTGAAGATGAAATTTTGATGT	R82K point mutation in the gorilla TRIM-RanCyp background	
NRM1143	TTTTCACTTCAAATTTGTCTCCATAAATGACTGTCTCCG		
NRM557	CTATCCATGGCCAAATGAAAGCCAGAATACCA	Q103E point mutation in the human or chimp TRIM-RanCyp background	
NRM558	TGGTATCTGGCCTTCAATGGCCATGGATAG		
NRM559	CTATCCATGGCCAAATGAAAGCCAGAATACCA	E103Q point mutation in the gorilla TRIM-RanCyp background	
NRM560	TGGTATCTGGCCTTCAATGGCCATGGATAG		
NRM1144	AATAATCTCAAATTTTATAACACTGAAGAAGCAGAAC	V113F point mutation in the human TRIM-RanCyp background	
NRM1145	TCTTCAGTGTATAAAAAATGAGAATTTGGTATTCTG		
NRM1146	AATAATCTCAAATTTTATAACACTGAAGAAGCAGAAC	F113V point mutation in the chimp or gorilla TRIM-RanCyp background	
NRM1147	TCTTCAGTGTATAACAAAAATGAGAATTTGGTATTCTG		
NRM1148	TCATTTGGTCTCCCGAAGGCTGTGTTGTGGAAGAATAA	K149E point mutation in the human TRIM-RanCyp background	
NRM1149	GACAAACAGACCTTCGGGAGAACCAATGATTCATCTT		
NRM1150	TCATTTGGTCTCCCGAAGGCTGTGTTGTGGAAGAATAA	E149K point mutation in the gorilla TRIM-RanCyp background	
NRM1151	GACAAACAGACCTTCGGGAGAACCAATGATTCATCTT		
NRM561	GGGATAGATGCATCCAGCGTGTAGGGCCCTTCCAGTAGCCAGATGAGAGAACC	Swaps SIVgor CP684 cyclophilin-binding loop into pMDLG backbone	Generate capsid - cyclophilin binding loop chimeras
NRM562	GTTTCTCATCTGGCCCTAGGAAGAGGCCCTACAACCGCTGGATGCACTCTATCCC	Swaps SIVgor BP664 cyclophilin-binding loop into pMDLG backbone	
NRM563	GGGATAGATGCATCCAGCCCTGTAGGGCCCTTCCAGCCAGCCAGATGAGAGAACC		
NRM564	GTTTCTCATCTGGCCCTAGGAAGAGGCCCTACAAGGCTGTGGATGCACTCTATCCC	Swaps SIVcpz CAM155 cyclophilin-binding loop into pMDLG backbone	
NRM609	AGAGTCATCCCAACGCATCAGGGCCCTTGTACAGCCAGATGAGAGAACC		
NRM610	ATCTGGCCGTGTACAGAGGCCCTGATGCTGTGGATGCACTCTATCCCATCTGC	Swaps SIVcpz CAM3 cyclophilin-binding loop into pMDLG backbone	
NRM611	CATGCAGGCCCTGTGCACAGGCCAGATGAGAG		
NRM612	GGCCGTGTGCAACAGGCCCTGATGCTGTGGATG	Swaps SIVcpz LB7 cyclophilin-binding loop into pMDLG backbone	
NRM613	AGAGTCATCCCAATCCATATGGGGCCCTATGCAAGCCAGCCAG		
NRM614	TGCAATAGCCCCATATGGAATGGATGGACTCTATCCCATTC	Swaps SIVcpz TAN cyclophilin-binding loop into pMDLG backbone	
NRM615	GAGTGCATCCAGCCGATGCAAGGCCCTCAACAGCAGGCCAGATGAGAGAACC		
NRM616	TCATCTGGCCGTGTGTTGAGAGGCCCTGTACAGCCGTGGATGCACTCTATCCC	Swaps SIVcpz ANT cyclophilin-binding loop into pMDLG backbone containing SIVcpz TAN loop	
NRM669	AGAGTCATCCCAACGCATCAGGGCCCTGTACAGCAGGCCAGATGAGAG		
NRM670	TGGCCCTGTGTACAGGCCCTGCATGCTGTGATGCACTCTATCCCATTC	Swaps SIVrcm NG cyclophilin-binding loop into pMDLG backbone containing SIVgor BQ664 loop	
NRM671	AGAGTCATCCCAACCCGTGGCCCTTCCAGCAGGCCAGATGAGAGAACCAG		
NRM672	TCATCTGGCCGTGTGGAAGAGGCCCCAGGGTGGGATGCACTCTATCCCATTC	Swaps SIVrcm CAM cyclophilin-binding loop into pMDLG backbone containing SIVrcm NG loop	
NRM673	AGAGTCATCCCAACCTGTGGCCCTTCCAGCAGGCCAG		
NRM674	TGCTGGAAGAGGCCCAAGGTTGGATGCACTCTATCCC	Swaps SIVrcm GAB cyclophilin-binding loop into pMDLG backbone containing SIVrcm NG loop	
NRM675	GAGTGCATCCCGCTCTGGCCCTATTCCAGCAGGCCAGATGAG		
NRM676	CTGGCCGTGTGGAATAGGCCCCAGGGAGGGATGCACTCTATCCC	Swaps SIVmac cyclophilin-binding loop into pMDLG backbone containing SIVcpz TAN loop	
NRM677	AGAGTCATCCCAACCCGTGCACCTCAACAGGCCAGATGAGAGAACCAG		
NRM678	TCTCATCTGGCCCTGTGAGGTCAGGCCCTGATGCACTCTATCCCATTC		