

Figure S3. Secondary structure predictions of SIVmus-09Gab-OI81 and -11Gab-Pts02 TAR element. Secondary structure predictions showed that all arboreal *Cercopithecus* SIVs have a duplicated stem-loop structure consisting of a single nucleotide bulge (C or U), a 3-bp stem, and a 6-bp terminal loop with the sequence 5'-CUGGGA-3'. The predicted TAR secondary structures for SIVmus-09Gab-OI81 and 11Gab-Pts02 also exhibited duplicated TAR elements containing a 3-bp stem between the bulge and the terminal loop.



	Loop 1			Loop 2		
	Bulge	bp stem	Loop	Bulge	bp stem	Loop
SIVtal	C	3	CUGGGA	C	3	CUGGGA
SIVdeb	C	3	CUGGGA	U	3	CUGGGA
SIVgsn	C	3	CUGGGA	C	3	CUGGGA
SIVsyk	C	3	CUGGGA	C	3	CUGGGA
SIVmon	C	3	CUGGGA	C	3	CUGGGA
SIVmus	C	3	CUGGGA	C	3	CUGGGA
SIVmus-OI81	C	3	CUGGGA	C	3	CUGGGA
SIVmus-Pts02	C	3	CUGGGA	C	3	CUGGGA

Table S1. Primers used to amplify full-length genomes of SIVmus-09Gab-OI81 and SIVmus-11Gab-Pts02.

Samples	Primers ^a	Size (kb)
<i>SIVmus-09Gab-OI81</i>		
First round	* Polis4 (5'-CCAGCNCACAAAGGNATAGGAGG-3'); * PolOR (5'-ACBACYGCNCCTTCHCCTTTC-3')	
Second round	* Polis2 (5'TGGCARATRGAYTYACNCAYNTRGAA-3); * Uni2 (5'-CCCCTATTCCTCCCCTTCTTTTAAAA-3')	0.4
First round	§ OIPolF1 (5'-TAGCAAGTCAATGGCCAGTAAGTC -3'); * SIVenvR (5'-YTBYTGCTGCTGCAMTATCCC -3')	
Second round	* cpz6768 (5'-TTAAYTGTCATGGRGAATTYTTYTAYTG-3'); * SIVenvR	0.5
First round	§ OIPolF1 5'-TAGCAAGTCAATGGCCAGTAAGTC -3'); § OIEnvR3 (5'-GTCTATCTCCACCACTTTGTA-3')	
Second round	§ OIPolF2 (5'-GCAAACAAGCAGCTAAAGACACA-3'); § OIEnvR2 (5'-GCTTTATTTGCAAGTCATCCA-3')	3.1
First round	§ OIEnvF1 (5'-TGGATGACTTGCAAATAAAGC-3'); * SIVnef-as (5'-CAGTCCHCCCTTTTCTTT-3')	
Second round	§ OIEnvF2 (5'-TCTAAGTCAATATATCTCCACCA-3'); * SIVnef-as	1.4
First round	§ OINefF1 (5'-CTCCGCAGAACCCTATCCATC-3'); * SIVgagR (5'-GGNCCTCCCACTCCTTGGCADGC-3')	
Second round	§ OINefF2 (5'-CGGAGGCAACGTCAAATCAG-3'); * SIVgagR	1.5
First round	§ OIGagF1 (5'-ACAGGGACCTAAGGAACCATT-3'); § OIPolR1 (5'-CTTGACTTTGAGGGTTGTATGGTA-3')	
Second round	§ OIGagF2 (5'-CCTAAGGGCAGAACAGACA-3'); § OIPolR2 (5'-GCTGTGTTTCTCCCTGTTTCTCTA-3')	2.8
<i>SIVmus-11Gab-Pts02</i>		
First round	& PolCMN F1 (5'-TCTYTATCCYTCCCTGTCTATCYCTCT-3'); & PolCMNR1 (5'-TCCCCYATTCCTCCCYTYTTTAA-3')	
Second round	& PolCMN F2 (5'-GACACMGGRGCNGAYGACACCAT-3'); & PolCMNR2 (5'-GCCTGTGCTACTGCTGTTTC-3')	2.4
First round	& EnvCMNF1 (5'-TGTGTVAAYTGACHCCNATGTGTGT-3'); * SIVnef-as (5'-CAGTCCHCCCTTTTCTTT-3')	
Second round	& EnvCMNF2 (5'-CARATAGGAGCAGGMATGAC-3'); & EnvCMNR1 (5'-TTGGAGTTCTTGGAKCCCAT-3')	2.1
First round	# Pts02-PolF1 (5'-TGGAATCAGGACAAAGCAACT-3'); # Pts02-EnvR1 (5'-CAAGCAAACCAATGTGTCTCTACT-3')	
Second round	# Pts02-PolF2 (5'-TACAATTAACAGAGGCAGCAGAAG-3'); # Pts02-EnvR2 (5'-GGCTTGTCACCTCATTGTTACT-3')	4.1
First round	# Pts02-EnvF1 (5'-GGAGCTACCAGACCTTGAGAA-3'); # Pts02-PolR1 (5'-CATCTCCTGGGTTATCTGCT-3')	
Second round	# Pts02-EnvF2 (5'-GACGAAGCTGGTGGCAACTCA-3'); # Pts02-Pol R2 (5'-CTGTTACCGGGAAATTTAGTGTGA-3')	3.2

^a Y = C ou T; W = A ou T; R = A ou G; H = A ou C ou T; B = C ou G ou T; M = A ou C; S = G ou C; K = G ou T; V = G ou A ou C; D = G ou A ou T; N = A ou G ou C ou T, I = inosine; * SIV generic primers, § SIVmus-09Gab-OI81 specific primers; # SIVmus-11Gab-Pts02 specific primers; & SIVmus/mon/gsn/ lineage specific primers.