

Sequences obtained by linear amplification-mediated polymerase chain reaction are first localized to the rhesus genome to identify the integration site because of the higher homology to the baboon genome. The corresponding location on the human genome is then identified using the UCSC website as follows.

1) Integrant in monkey J01174, day 364 after transplant

LTR-chromosome junction

CCTACAGGTGGGGTCTTTCA**G**AGTCATCTGGCGCTCGGAACGCTAGTACAAGGCCCACTACTCAGTTGGCTCTTAAT
 AAAATCTGTGAAACGAATTATAAAGTTGTTTTCTACTAGACCCTGTTGGGACACCAAGAAGCCTTCGTTCGGTAGCTT
 AACTTGGCTGCGGTGCCGACCTGGAGGAAGGCGAAAGGGTTGTTAGCGTGACCAGACTCTGGTGACCTACACTGAG
 AAGCTGAAGGGTCTCTTAAGCTTTGCGGTGC

Sequence localized to rhesus genome chromosome 14

gctagccagc	gttcatgtct	acattattga	tctcgtcttc	ccctgtgtga	14971629
gtcactcacc	tgtgagctcc	tagaggtcag	ggaatgaatg	tggttccgtg	14971679
G gGTCATCTG	GCcCTCGGAA	CGCTAGTACA	AGGCCCACTA	CTCAGTTGGC	14971729
TCTTAATAAA	ATCTGTGAAA	CGAATTATAA	AGTTGTTTTT	TACTAGACCT	14971779
TGTTGGGACA	CCAAGAAGCC	TTCGTTCGGTA	GCTTAACTTG	GCTGCGGTGC	14971829
CCaACCTGGA	GGAAGGCGAA	AGGGTTGTTA	GCGTGACCAG	ACTCTGGTGA	14971879
CCTACACTGA	GAAGCTGAAG	GGTCTCTTAA	GCTcTGC GGc	CGgaagccat	14971929
gtgcttctgc	ggtttataca	atagcagctt	tatcagaagt	tacttttctg	14971979
cacactagcg	tgtgacgta	atttgtcttc	ctgattcatc	aa	

Alignment of rhesus chromosome 14 to homologous human chromosome 11

tcttactttt	tatctgggcg	ttggcgtaacc	tttctcgggg	tgtctgcgta	58102160
actgccca	cttgcccttg	tttggtcaga	tgacacctcc	tctgggactg	58102110
GCTAGCCAGC	GTTTCATGTCT	ACATTATTGA	TCTCGTCTTC	CggTGTGTGA	58102060
GTCACCTACC	TGTGAGCTCC	TAGAGGTCAG	cGAcTaAATc	TGGTTCCaTG	58102010
G GTCcTtgG	GCCCTCGGAg	CcTAGcACA	AGGCCCACTA	CTCAGTTGGC	58101960
TCTTAATcAA	ATCTGTGAAA	CGAATTATAA	AGTTGcTTTT	CTACTAGACC	58101910
TTGTTGGGAC	ACCAAGgAGC	CggCGTCCGT	tGCTTAACTT	GGaTGC GG TG	58101860
CCTgACCTaG	AGGgAGGCGA	AAGGGTTGTg	AGCGTGACat	gaCTGGTGAC	58101810
CTACACcGAG	AAGCTGAAGG	GTCTCTTAAG	CTCTGCGGCC	GGAAGCCATc	58101760
TGCTTCTGCG	GTTTATACAA	TAGCAaCTTT	ATCAGAgGTT	ACTTTTCTGC	58101710
ACgCTAGCGT	aTGACaTTAA	TTTGTCTTCC	TGATTCATCA	Aaggggaattt	58101660
ccgttgca	gtgtgatgca	gtggcctct	cccatttctt	ttttcttttc	58101610
atccattaca	atcaaggaac	gatttgcaag	aacatccttt	a	

The position of the vector provirus in monkey J01174 is on human chromosome 11:58102008

Supplementary Figure E1. Localization of vector proviruses to rhesus and human genomes.

2) Integrant in monkey J00116, day 372 after transplant:**LTR-chromosome junction**

CCTACAGGTGGGGTCTTTCA**A**GGGGACGACGAGATCAATAATGTAGACATGAACGCTGGCTAGCCAGTTCAGAGGA
GGTGTCTATCTGACCAAACCAAGGTAAGTCGGGGCAATT

Sequence localized to rhesus genome chromosome 14

tgagtagtgg	gccttgact	agcgttccga	gggccagatg	acccacgga	14971674
accacattca	ttccctgacc	tctaggagct	cacaggtgag	tgactcacac	14971624
A GGGGAaGAC	GAGATCAATA	ATGTAGACAT	GAACGCTGGC	TAGCCAGTTC	14971574
CAGAGGAGGT	GTCATCTGAC	CAAACCAAGG	TAAGTCGGGG	CAATTacgca	14971524
gacaccccga	gaaaggtacg	ccaacgcccc	gataaaaagt	aacaaaaaat	14971474
aggaaaaacc	ctcccatcag	accagcaatt	ggctcaacgt	ttgag	

Alignment of rhesus chromosome 14 to homologous human chromosome 11

atccaagtta	agcaaccgac	gocggctcct	tggtgtccca	acaaggtcta	58101915
gtagaaaagc	aactttataa	ttcgtttcac	agatttgatt	aagagccaac	58101965
T GAGTAGTGG	GCCTTGTgCT	AGgGcTCCGA	GGGCCcaAgG	ACCCCAtGGA	58102015
ACCagATTta	gTCgCTGACC	TCTAGGAGCT	CACAGGTGAG	TGACTCACAC	58102065
A ccGGAAGAC	GAGATCAATA	ATGTAGACAT	GAACGCTGGC	TAGCCAGTcC	58102115
CAGAGGAGGT	GTCATCTGAC	CAAACCAAGG	cAAGTCtGGG	CAgTTACGCA	58102165
GACACCCCGA	GAAAGGTACG	CCAACGCCCA	GATAAAAAGT	AAgAAAAAgT	58102215
AGGAAAAACC	CTCCCATCAG	ACCAGCAATT	GGCTcgacgc	ttgagcccgg	58102265
atgtacggca	cgcgtcgcga	cctaaccggg	aaacactgcc	tcccgaaaaa	58102315
aaggtaaact	ctagactgcg	gaaagtaaac	tacct		

The position of the vector provirus in monkey J00116 is on human chromosome 11:58102066

3) Integrant in monkey M01277, day 398 after transplant**LTR-chromosome junction**

CCTACAGGTGGGGTCTTTCA**T**TTCCTGTCTTTGGCCTTTCTGTCCCAGCGCCGAGATCTTGCGCGGAGAAGGGG
GTAGTATTTTGGAGCTGTCGCTTCTCCTTTAAGAAAAAAGCCCCGTCGGTTGCCG

Sequence localized to rhesus genome chromosome 14:

ctgcctccct	aaggagccac	tgatgcccga	agggctcttt	ctattcttct	14970965
ttaggccgca	gaggtagcct	ggcgcttctt	cctcctccac	cctacccac	14971015
T TTCCTGTCT	TTGGCCTTTC	TGTCCCAGC	GCCGCCAGAT	CTTGCGCGGA	14971065
GAAGGGGGTA	GTATTTTGGAG	CTGTGCTTTC	TCCTTTAAGA	AAAAAAGCCC	14971115
CGTCGGTTGC	CGgatgaaag	tctctgaaaa	aatggcgggcg	gcaaaaacgga	14971165
ggcgggggtg	tgggtcaacg	agggcccggc	tcctagcgca	tgtgcaccgt	14971215
taacttaacc	aa				

Supplementary Figure E1. (continued)

Alignment of rhesus chromosome 14 to homologous human chromosome 11:

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aggggcagtg cgagggggcag gtctcgcgag ggagggcgggt gagaagaaat 58102822
cgcacctctt tccccgcctc acgcaaacc tagactggct gcgcgcgcac 58102772
CTGCCTCCCT gAGGAGCCAC TGATaCCaCA AGGGCTCTTT CTATTCTTCT 58102722
TTAGGCCGCA GAaGTAGCCT GGGCGTTCTT CCgCCTCCAC CCTACCCAC 58102672
TTTCCTGTCT TTGGCCTTTC TGTCCCAGC GCCGCCAGAT CTTGCGCGGA 58102622
GAAGGGGGTA GTATTTTGAG CTGTGCTTC TCCTTTAAGA AAAAAAGCCC 58102572
CGTCGGTTGC CGGATGAAA TCTCTGAAA AATGGCGGCG GCAAAACGGA 58102522
GGCGGGGTTG TGGGggCAAC GAGGGCCCGC CTctTgGCGC ATGcGCACCG 58102472
TTAACTTAAC CAAgggcatt ctgggagatg aagtcttatt tcgcctaggc 58102422
tttaggaaaa atagatggga aaccagaggt ggagaggatg ccgggagggt 58102372
ctaactgagt cac

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The position of the vector provirus in monkey M01277 is on human chromosome 11:58102671

4) Location of all three vector proviruses on human chromosome 11

- monkey J01174 chr 11:58102008 (reverse)
- monkey J00116 chr 11:58102066 (forward)
- monkey M01277 chr 11:58102671 (reverse)

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CAAGGACcCC ATGGAACCAG ATTTAGTCGC TGACCTCTAG GAGCTCACAG 58102050
GTGAGTGACT CACACaCCGG AAGACGAGAT CAATAATGTA GACATGAACG 58102100
CTGGCTAGCC AGTCCCAGAG GAGGTGTCAT CTGACCAAAC CAAGGCAAGT 58102150
CTGGGCAGTT ACGCAGACAC CCCGAGAAAG GTACGCCAAC GCCCAGATAA 58102200
AAAGTAAGAA AAAGTAGGAA AAACCTCCC ATCAGACCAG CAATTGGCTC 58102250
GACGCTTGAG CCCGGATGTA CGGCACGCGT CGCGACCTAA CCCGAAACA 58102300
CTGCCCTCCG AAAAAAAGGT AAACCTAGA CTGCGGAAAG TAAACTACCT 58102350
TTCCCGTCGT GACTCAGTTA GAACCTCCC GCATCCTCTC CACCTCTGGT 58102400
TTCCCATCTA TTTTCTCTAA AGCCTAGGCG AAATAAGACT TCATCTCCA 58102450
GAATGCCCTT GGTTAAGTTA ACGGTGCGCA TGCGCCAAGA GGCGGGCCCT 58102500
CGTTGCCCCC ACAACCCCGC CTCCGTTTTG CCGCCGCCAT TTTTTCAGAG 58102550
ACTTTCATCC GGCAACCGAC GGGGCTTTTT TTCTTAAAGG AGAAGCGACA 58102600
GCTCAAAATA CTACCCCTT CTCCGCGCAA GATCTGGCGG CGCTGGGGAC 58102650
AGAAAGGCCA AAGACAGGAA aGTGGGGTAG GGTGGAGGCG GAAGAACGCC 58102700

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Supplementary Figure E1. (continued)