

TABLE S1. Nucleic Acid Reagents**A. Oligonucleotides and Gene Blocks**

Oligo Name	Direction	Sequence (5'-to-3')
BAC Construction Oligos		
TB40/E UL79N-galk	Forward	TGCTCGTCCATCGTCATTGTCCTCACCGTCGCTACCCGCTCACCGAGCGAACGTCAGCACTGTCCTGCTCCTT
TB40/E UL79N-galk	Reverse	TTGCCCGTGC GGACCCGCGGGACGGCGGGGTTCTCTTCGTCGCGGGCCATCCTGTTGACAATTAATCATCGGCA
TB40/E UL79C-galk	Forward	GGCCGTA CTGGCCGCCCGCGCCCTTCATATGCCGACGCTGGCTAACGACGTGTCAGCACTGTCCTGCTCCTT
TB40/E UL79C-galk	Reverse	GCGCTGTACGGCAGCGGGGAGAAAAGTGGCAGATAAA TCACGTCAGGTTACCTGTTGACAATTAATCATCGGCA
Sequencing Oligos		
TB40/E UL79N	Forward	GACTGGTCGTAGCGGGCGAG
	Reverse	CGCGGTGAAAGAGGAGGACGC
TB40/E UL79C	Forward	CCACAACAGCAGCAGCACCACCAC
	Reverse	TGTTTCGGCCGAAAGTTCCTCCGTC
Towne UL87C	Forward	AAGATCAAGCACACTTGCGCGCTC
	Reverse	GCGGTAACACACGGCGAATCAGTT
Gene Blocks (dsDNA)		
TB40/E UL79N-HA		TGCTCGTCCATCGTCATTGTCCTCACCGTCGCTACCCGCTCACCGAGCGAACGATGTACCCATACGATGTTCCAGATTACGCTCTGATGGCCC GCGACGAAGAGAACCCCGCGGTCCCGCGGGTCCGCACGGGCAAATTC
TB40/E UL79C-FKBP12		GGCCGTA CTGGCCGCCCGCGCCCTTCATATGCCGACGCTGGCTAACGACGTGGGAGTGCAGGTGGA AACCATCTCCCCAGGAGACGGCGGCACCTTCCCCAAGCGCGGCCAGACCTGCGTGGTGC ACTACACCGGGATGCTTGAAGATGGA AAGAAAGTTGATTCCTCCCGGGA CAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCAGATGAGTGTGGGTCA GAGAGCCAAACTGACTATATCTCCAGATTATGCCTATGGTGCCA CTGGGCACCCAGGCATCATCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAA ACTGGAATGAACCTGACGTGATTTATCTGCCACTTTTCTCCCCGCTGCCGTACAGCGCC

B. Adapters and Illumina index primers**Adapters**

VRA3-8N:

/5Phos/rNrNrNrNrNrNrNrNrNrNrGrArUrCrGrUrCrGrGrArCrUrGrUrArGrArArCrUrCrUrGrArArC/3Inv dT/

VRA5-8N: rCrCrUrUrGrGrCrArCrCrGrArGrArArUrUrCrCrArNrNrNrNrNrNrNrN

Illumina index primers

RP1: AATGATACGGCGACCACCGAGATCTACACGTT CAGAGTTCTACAGTCCGA

RPI-1 [ATCACG]:
CAAGCAGAAGACGGCATAACGAGATCGTGATGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-2 [CGATGT]:
CAAGCAGAAGACGGCATAACGAGATACATCGGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-3 [TTAGGC]:
CAAGCAGAAGACGGCATAACGAGATGCCTAAGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-4 [TGACCA]:
CAAGCAGAAGACGGCATAACGAGATTGGTCAGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-5 [ACAGTG]:
CAAGCAGAAGACGGCATAACGAGATCACTGTGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-6 [GCCAAT]:
CAAGCAGAAGACGGCATAACGAGATATTGGCGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-7 [CAGATC]:
CAAGCAGAAGACGGCATAACGAGATGATCTGGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-8 [ACTTGA]:
CAAGCAGAAGACGGCATAACGAGATTCAAGTGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-9 [GATCAG]:
CAAGCAGAAGACGGCATAACGAGATCTGATCGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-10 [TAGCTT]:
CAAGCAGAAGACGGCATAACGAGATAAGCTAGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-11 [GGCTAC]:
CAAGCAGAAGACGGCATAACGAGATGTAGCCGTGACTGGAGTTCCTTGGCACCCGAGAA
TTCCA

RPI-12 [CTTGTA]:
CAAGCAGAAGACGGCATAACGAGATTACAAGGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-18 [GTCCGC]:
CAAGCAGAAGACGGCATAACGAGATGCGGACGTGACTGGAGTTCCTTGGCACCCGAGAA
TTCA

RPI-19 [GTGAAA]:
CAAGCAGAAGACGGCATAACGAGATTTTCACGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-22 [CGTACG]:
CAAGCAGAAGACGGCATAACGAGATCGTACGGTGACTGGAGTTCCTTGGCACCCGAGAA
TTCCA

RPI-25 [ACTGAT]:
CAAGCAGAAGACGGCATAACGAGATATCAGTGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-27 [ATTCCT]:
CAAGCAGAAGACGGCATAACGAGATAGGAATGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA

RPI-29 [CAACTA]:

CAAGCAGAAGACGGCATACGAGATTAGTTGGTGACTGGAGTTCCTTGGCACCCGAGAAT
TCCA
