

Table S3

Splint oligo

ACACGACGCTCTTCCGATCT

ViCAR i701 primer

caagcagaagacggcatcacgagatTCGCCTTAGTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

ViCAR i702 primer

caagcagaagacggcatcacgagatCTAGTACGGTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

ViCAR i703 primer

caagcagaagacggcatcacgagatTTCTGCCTGTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

ViCAR i704 primer

caagcagaagacggcatcacgagatGCTCAGGAGTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

ViCAR i705 primer

caagcagaagacggcatcacgagatAGGAGTCCGTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

ViCAR i501 primer

AATGATACGGCGACCACCGAGATCTACACTATAGCCTACACTCTTTCCCTACACGACGCTCTTCCG
ATCT

ViCAR i502 primer

AATGATACGGCGACCACCGAGATCTACACATAGAGGCACACTCTTTCCCTACACGACGCTCTTCC
GATCT

ViCAR i503 primer

AATGATACGGCGACCACCGAGATCTACACCCTATCCTACACTCTTTCCCTACACGACGCTCTTCCG
ATCT

ViCAR i504 primer

AATGATACGGCGACCACCGAGATCTACACGGCTCTGAACACTCTTTCCCTACACGACGCTCTTCC
GATCT

ViCAR i505 primer

AATGATACGGCGACCACCGAGATCTACACAGGCGAAGACACTCTTTCCCTACACGACGCTCTTCC
GATCT

sgRNA 1 for enhancer G4 mutation (forward)

CACCGGAGATATGACCGCAGAGGCG

sgRNA 1 for enhancer G4 mutation (reverse)

AAACCGCCTCTGCGGTCATATCTCC

sgRNA 2 for enhancer G4 mutation (forward)

CACCGCTAAAGAGATATGACCGCAG

sgRNA 2 for enhancer G4 mutation (reverse)

AAACCTGCGGTCATATCTCTTAGC

WT enhancer G4 for *in vitro* biophysical analyses

GGCGGGGGAGGGAGTCAGGGAGGGCTGGGTGG

Mutant enhancer G4 for *in vitro* biophysical analyses

GGCGAGAGAGAGAGTCAGAGAGAGCTGAGTGG