171mer

*GCATC****GAATTC****GTGCACGTGC*GCTGTC

GTTCCGTTATCGCTATTCTGCCATCTTACCCCATTGTTTCACTTCGCTCCACCTTGCCTCATCCTGCTTTATTACCACTGCCGTCCCGCCCTATCACTATTTTGTCTCGTCACTCTACCGTTG*CACGCGTACA****GAATTC****GATGC*

Primer1:(22mer)

*GCATC****GAATTC****GTGCACGTGC*G

(Tm=61.8/hairpin 35.4)

Primer2:(25mer)

*GCATC****GAATTC****TGTACGCGTG*CAAC

(Tm=60.8/hairpin 30.1)

Strand1: (48mer)5’-OH-*GCATC****GAATTC***GTGCACGTGCGCTGTCGTTCCGTTATCGCTATTCTGC

Strand2: (42mer) 5’-P-CATCTTACCCCATTGTTTCACTTCGCTCCACCTTGCCTCATC

Strand3: (41mer) 5’-P-

CTGCTTTATTACCACTGCCGTCCCGCCCTATCACTATTTTG

Strand4: (40mer)5’-P-

TCTCGTCACTCTACCGTTGCACGCGTACA***GAATTC****GATGC*

Scaffold1: (39mer) 5’-OH-

GTGAAACAATGGGGTAAGATGGCAGAATAGCGATAACGG

Scaffold2: (34mer) 5’-OH-

GGCAGTGGTAATAAAGCAGGATGAGGCAAGGTGG

Scaffold3:(35mer) 5’-OH-

CGGTAGAGTGACGAGACAAAATAGTGATAGGGCGG

155mer

***AATTC****GTGCACGTGC*GCTGTCGTTCCGTTATCGCTATTCTGCCATCTTACCCCATTGTTTCACTTCGCTCCACCTTGCCTCATCCTGCTTTATTACCACTGCCGTCCCGCCCTATCACTATTTTGTCTCGTCACTCTACCGTTG*CACGCGTACA****G***

149mer

*GTGCACGTGC*GCTGTCGTTCCGTTATCGCTATTCTGCCATCTTACCCCATTGTTTCACTTCGCTCCACCTTGCCTCATCCTGCTTTATTACCACTGCCGTCCCGCCCTATCACTATTTTGTCTCGTCACTCTACCGTTG*CACGCGTACA*

TCTACCGTTG*CACGCGTACAGTGCACGTGC*GCTGTCGTTC

Primer 1:

*GTGCACGTGC*GCTGTCGTTC

(20mer)62.1 ºC(Hairpin 38.3)

Primer 2 :

*TGTACGCGTG*CAACGGTAGAGTG

(23mer) 61.3 ºC(Hairpin 51.5)

cirScaff

35mer

CGACAGCGCACGTGCACTGTACGCGTGCAACGGTA

Otherstrand:

Other 171mer :

GCATCGAATTCTGTACGCGTGCAACGGTAGAGTGACGAGACAAAATAGTGATAGGGCGGGACGGCAGTGGTAATAAAGCAGGATGAGGCAAGGTGGAGCGAAGTGAAACAATGGGGTAAGATGGCAGAATAGCGATAACGGAACGACAGCGCACGTGCACGAATTCGATGC

Other 149mer:(no CPD):

TGTACGCGTGCAACGGTAGAGTGACGAGACAAAATAGTGATAGGGCGGGACGGCAGTGGTAATAAAGCAGGATGAGGCAAGGTGGAGCGAAGTGAAACAATGGGGTAAGATGGCAGAATAGCGATAACGGAACGACAGCGCACGTGCAC

M-Primer 1:

GTG CAC GTG CGmC TGT mCGT TmC

60.5 ºC

149mer-strand1

GTGCACGTGCGCTGTCGTTCCGTTATCGCTATTCTGCCATCTTACCCCAT

149mer-strand2

TGTTTCACTTCGCTCCACCTTGCCTCATCCTGCTTTATTACCACTGCCGT

149mer-strand3

CCCGCCCTATCACTATTTTGTCTCGTCACTCTACCGTTGCACGCGTACA

TGmCmCTmCATmCmCTGmCTTTATTAmCmCA

23MER

57.4 ºC

TGT ACG CGT GCA ACG GTA G

19MER

57.9 ºC