

Supplementary Information

Sequences of Oligos:

Top strand with c overhang	5'- CGTCGGACATACGATCATATCTCTGTCACATGGTACAAGAATGT ATCCTACGATGTAACCTCTGTACGAGTGAACGTCATGGACGACAT AGCCAAGTCGAAACTGTTGATG-3'
Top strand with cc overhang	5'- CCGTCGGACATACGATCATATCTCTGTCACATGGTACAAGAATG TATCCTACGATGTAACCTCTGTACGAGTGAACGTCATGGACGACA TAGCCAAGTCGAAACTGTTGATG-3'
Top strand with ccc overhang	5'- CCCGTCGGACATACGATCATATCTCTGTCACATGGTACAAGAAT GTATCCTACGATGTAACCTCTGTACGAGTGAACGTCATGGACGAC ATAGCCAAGTCGAAACTGTTGATG-3'
Top strand with g overhang	5'- GGTCGGACATACGATCATATCTCTGTCACATGGTACAAGAATGT ATCCTACGATGTAACCTCTGTACGAGTGAACGTCATGGACGACAT AGCCAAGTCGAAACTGTTGATG-3'
Top strand with gg overhang	5'- GGGTCGGACATACGATCATATCTCTGTCACATGGTACAAGAATG TATCCTACGATGTAACCTCTGTACGAGTGAACGTCATGGACGACA TAGCCAAGTCGAAACTGTTGATG-3'
Top strand with ggg overhang	5'- GGGGTCGGACATACGATCATATCTCTGTCACATGGTACAAGAAT GTATCCTACGATGTAACCTCTGTACGAGTGAACGTCATGGACGAC ATAGCCAAGTCGAAACTGTTGATG-3'
Bottom strand	5'- CATCAACAGTTTCGACTTGGCTATGTCGTCCATGACGTTCACTCG TACAGAGTTACATCGTAGGATACATTCTTGTACCATGTGACAGA GATATGATCGTATGTCCGAC-3'
Bottom strand for blunt end oligo	5'- CATCAACAGTTTCGACTTGGCTATGTCGTCCATGACGTTCACTCG TACAGAGTTACATCGTAGGATACATTCTTGTACCATGTGACAGA GATATGATCGTATGTCCGACGG-3'

Top strand for oligo with no MmeI site	5'- CCCAACGTCAGTATGAATAATATTCTTGATGCACGTGTTGAGCT TGACTTTGATGTATGACGTAAC TAACAATCCTGACTTCGTATAAT GTATGCTACTAGAAACGGTACTTCCAGATGGTCTTCAGTCCTTC AGGCACGCTTGGTAAAGAGAGAGTGTAGGGTA-3'
Bottom strand for oligo with no MmeI site	5'- TACCTTACACTCTCTCTTTACCAAGCGTGCCTGAAGGACTGAAG ACCATCTGGAAGTACCGTTTCTAGTAGCATACATTATACGAAGT CAGGATTGTTAGTTACGTCATACATCAAAGTCAAGCTCAACACG TGCATCAAGAATATTATTCATACTGACGTTG-3'
Top strand for oligo with 2 MmeI sites	5'- GCACCGTGAACAACCACCACTTCAAGTGCGCCGTGAAGGGCGA AGGCATTCCGACCCGTCGGACATACGATCATATCTCTGTCACAT GAAGCATAAATGTATCCTACGAAATAA-3'
Bottom strand for oligo with 2 MmeI sites	5'- TTATTTTCGTAGGATACATTTATGCTTCATGTGACAGAGATATGAT CGTATGTCCGACGGGTCGGAATGCCTTCGCCCTTCACGGCGCAC TTGAAGTGGTGGTGTTCACGGTGC-3'