

M13 Forward (-20) priming site

531 GACGTTGTAA AACGACGGCC AGTCTTAAGC TCGGGCCCCA AATAATGATT TTATTTTGAC
 AGCCCGGGGT TTATTACTAA AATAAAACTG

591 TGATAGTGAC CTGTTCGTTG CAACACATTG ATGAGCAATG CTTTTTTATA ATG CCA ACT
 ACTATCACTG GACAAGCAAC GTTGTGTAAC TACTCGTTAC GAAAAAATAT TAC GGT TGA

attL1

651 651 2896

650 TTG TAC AAA AAA GCA GGC TNN --- --- --- NAC CCA GCT TTC TTG TAC AAA
 AAC ATG TTT TTT CGT CCG ANN --- Gene --- NTG GGT CGA AAG AAC ATG TTT

2906 GTT GGC ATT ATAAGAAAGC ATTGCTTATC AATTTGTTGC AACGAACAGG TCACTATCAG
 CAA CCG TAA TATCTTTTCG TAACGAATAG TAAACAACG TTGCTTGTC CAGTATAGTC

attL2

2965 TCAAAATAAA ATCATTATTT GCCATCCAGC TGATATCCCC TATAGTGAGT CGTATTACAT
 AGTTTTATTT TAGTAATAAA CCGTAGGTCG

M13 Reverse priming site

3025 GGCATAGCT GTTCCTGGC AGCTCTGGCC CGTGTCTCAA AATCTCTGAT GTTACATTGC

