

M13 Fwd (-20) Primer Binding Site

531 GACGTTGTA AACGACGGCC AGTCTTAAGC TCGGGCCCCA AATAATGATT TTATTTTGAC
CTGCAACATT TTGCTGCCGG TCAGAATTCG AGCCCGGGGT TTATTAATAA AATAAACTG
attL3

591 TGATAGTGAC CTGTTTCGTTG CAACAAATTG ATGAGCAATG CTTTTTTATA ATGCCAACT
ACTATCACTG GACAAGCAAC GTTGTTTAAC TACTCGTTAC GAAAAAATAT TACGGTTGA

651 2896
650 TTG TAT AAT AAA GTT GNN TAC CCA GCT TTC TTG TACAAAGT TGGCATTATA
AAC ATA TTA TTT CAA CNN ELEMENT 3 ATG GGT CGA AAG AAC ATGTTTCA ACCGTAATAT
attL2

2918 AGAAAGCATT GCTTATCAAT TTGTTGCAAC GAACAGGTCA CTATCAGTCA AAATAAAATC
TCTTTCGTAA CGAATAGTTA AACAAACGTTG CTTGTCCAGT GATAGTCAGT TTTATTTTAG

2978 ATTATTTGCC ATCCAGCTGC AGGGCGGCCG CGATATCCCC TATAGTGAGT CGTATTACAT
TAATAAACGG TAGGTTCGACG TCCCGCCGGC GCTATAGGGG ATATCACTCA GCATAATGTA

M13 Reverse Primer Binding Site

3038 GGTCATAGCT GTTTCCTGGC AGCTCTGGCC
CCAGTATCGA CAAAGGACCG TCGAGACCGG

