

SUPPLEMENTAL DATA

Table 1. Oligonucleotide and Primer Sequences (all 5' to 3')

<i>attR_for</i>	CTTGCGCTAATGCTCTGTAC
<i>attR_rev</i>	ACCTTCCCGTTTCGCTCAAG
<i>attL_for</i>	GAAAAATGAATCCGTTGAAG
<i>attL_rev</i>	GTGATGACAGAGGCAGGGAG
HJ_R_primer	AGAATTCCAACCTAGTA
P'1_TS	GCATTTGTTGCAACGAACAGGTCACTATCAGGG
P'1Bio_TS	GCATTTGTTGCAACGAACAGG[Bio-dT]CACTATCAGGG
P'1_BS	CCCTGATAGTGACCTGTTCTGTTGCAACAAATGC
P'123_TS (50mer)	CGAACAGGTCACTATCAGTCAAAAATAAAAATCATTATTTGATTACCATCAA
P'12[Bio3]_TS (50mer)	CGAACAGGTCACTATCAGTCAAAAATAAAA[Bio_dT]CATTATTTGATTACCATCAA
P'123_BS (50mer)	TTGATGGTAATCAAATAATGATTTTATTTTGACTGATAGTGACCTGTTTCG
P'12[Bio3]_BS (50mer)	TTGATGGTAATCAAATAA[Bio_dT]GATTTTATTTTGACTGATAGTGACCTGTTTCG
PR45 (WT <i>attR</i> forward)	GCTCTGTTACAGGTCACTAATACCATCTAAGTAGTTGATTCATAG
P2_Bio (<i>attR</i>)	GCTCTGTTACAGGTCACTAATACCATCTAAGTAGTTGATTCATAG[Bio_dT]GACTGCATATGTTG
NC(-117Bio) (<i>attR</i>)	GCTCTGTTACAGGTCACTAATACCATCTAAGTAGT[Bio_dT]GATTCATAGTGACTGC
PR45_mut (mutated <i>attR</i> for -112 and -122 insertions)	GCTCTGTTACAGGTCACTAATACCATCTAATTAGTTGATTATAG
NC(-112Bio) (<i>attR</i>)	GCTCTGTTACAGGTCACTAATACCATCTAATTAGTTGATT[Bio_dT]ATAG
NC(-122Bio) (<i>attR</i>)	GCTCTGTTACAGGTCACTAATACCATCTAA[Bio_dT]TAGTTGATTATAG
PBSPM1 (reverse <i>attR</i> primer)	GATGGTCGTCATCTACCTGCTGGACAGCATGG
WT_attL (reverse <i>attL</i> primer)	GAAATCAAATAATGATTTTATTTTGACTGATAGTGACCTGTTCTGTTGC
P'1Bio (<i>attL</i>)	GAAATCAAATAATGATTTTATTTTGACTGATAG[Bio_dT]GACCTGTTCTGTTGC
P'2Bio (<i>attL</i>)	GAAATCAAATAATGATTTTATTT[Bio_dT]GACTGATAGTGACCTGTTCTGTTGC
P'3Bio (<i>attL</i>)	GAAATCAAATAA[Bio_dT]GATTTTATTTTGACTGATAGTGACCTGTTCTGTTGC
apaLI (<i>attL</i> forward primer)	GCAGATTGTAAGTGTGACAGGTCAC
H= (mutated H1 site, <i>attR</i>)	TACAGGTCACTAATACCATCTAACCAAGCCATGCATAGTGACTGC
NC resect (<i>attR</i>)	CATAGTACTGATGTTGTTTACAG
P'3 resect (<i>attL</i>)	GCGTATTTTGACTGATAGTGACC
XbaP (wt attP forward primer) (<i>attP</i>)	GACAAAAATCACCTTGCTCTAGAGCTTTGTTACAGGTCACTAATACC
XbaP(-149Bio) (<i>attP</i>)	GACAAAAATCACCTTGCTCTAGAGCT[Bio_dT]TGTTACAGGTCACTAATACC
Xba(P1Bio) (<i>attP</i>)	GACAAAAATCACCTTGCTCTAGAGCTTTGTTACAGG[Bio_dT]CACTAATACC
XbaP2 (mutated attP for -154 and -144 mut.)	GCGCAAGAAGTCTAGAATCACCTTGCGCTATTGCTTTGTTTCAGGTCACTAAT
Xba(-154Bio) (<i>attP</i>)	GCGCAAGAAGTCTAGAATCACCTTGCGCTA[Bio_dT]TGCTTTGTTTCAGGTCACTAAT
Xba(-144Bio) (<i>attP</i>)	GCGCAAGAAGTCTAGAATCACCTTGCGCTATTGCTTTGTT[Bio_dT]CAGGTCACTAAT
Xba_rev (<i>attP</i> reverse primer)	GTCATCAAACCTGTCGCACCTAGAGAAGCACAAG
BstP (wt attP forward primer)	GCTTATCAATTTGTTTCGAACGAACAGGTCACTATCAGTC
BstP(P'1Bio)	GCTTATCAATTTGTTTCGAACGAACAGG[Bio_dT]CACTATCAGTC
BstP(P'2Bio)	GCTTATCAATTTGTTTCGAACGAACAGGTCACTATCAG[Bio_dT]CAAAAATAAAATC
BstP(P'3Bio)	GCTTATCAATTTGTTTCGAACGAACAGGTCACTATCAGTCAAAAATAAAA[Bio_dT]CATT
BstPrev1 (<i>attP</i> rev primer)	GACTGATAGTGACCTGTTTCGAACAAATG
BstPrev2 (<i>attP</i> rev primer)	GACCTGTTCTGTTTCGAACAAATGATAAGCAATGCTTTTTTAG
P'123_TS (40mer)	GAACAGGTCACTATCAGTCAAAAATAAAAATCATTATTTGAT
P'123_BS (40mer)	ATCAAATAATGATTTTATTTTGACTGATAGTGACCTGTTTC
P'12[Bio3]_TS (40mer)	GAACAGGTCACTATCAGTCAAAAATAAAA[Bio_dT]CATTATTTGAT
P'12[Bio3]_BS (40mer)	ATCAAATAA[Bio_dT]GATTTTATTTTGACTGATAGTGACCTGTTTC
P'12_TS (40mer)	GAACAGGTCACTATCAGTCAAAAATTTGATTTTCATACCATA
P'12_BS (40mer)	TATGGTATGAAATCAAATTTTGACTGATAGTGACCTGTTTC
CM7COB' (HJ)	GATCGAGTGTATTGCGACTTTTTTATACTAACTTGAGCGG
CM7BOC' (HJ)	GAACCTGCTTATTATACAAAAGTTGGATCACAATGAA
CM7C'OC (HJ)	TTCATTGTGATCCAACCTTTGTATAAAAAAGCTGCAATACACTCGATC
CM7BOB' (HJ)_	CCGCTCAAGTTAGTATAAATAAGCAGAGTTC
CM7BOB'_Fluor (HJ)	CCGCTCAAGTTAGTATAAATAAGCAGAG[Bio-FL]TTC