

Absent Sites	0	AarI, AbsI, Alfi, AlfI', Alol, Alol', AscI, AvrII, BaeI, BaeI', BamHI, BarI, BarI', BclI, BplI, BmgBI, BsaBI, BsiWI, BsrGI, BstBI, BstEII, BstXI, BstZ17I, FspAI, HpaI, MauBI, MreI, PmlI, PstI, PspXI, PstI, PstI', SbfI, SexAI, SfiI, SgrAI, SmaI, SphI, SrfI, StuI, SwaI, TstI, TstI', XcmI, XhoI, XmaI
Acc65I	1	6296
AfeI	1	3195
AgeI	1	3199
AhdI	1	7761
AjuI	1	3927
AjuI'	1	3895
AleI	1	1920
ApaI	1	2572
AsiSI	1	3578
BbeI	1	984
BbvCI	1	1767
BcgI	1	8266
BcgI'	1	8300
BmtI	1	3194
BspMI	1	3527
BssHII	1	1054
Bsu36I	1	6292
EcoNI	1	1513
EcoO109I	1	2277
FseI	1	1491
FspI	1	7983
KasI	1	980
KpnI	1	6300
MscI	1	5107
NarI	1	981
NheI	1	3190
NotI	1	4241
NsiI	1	2598
PacI	1	5472
PciI	1	5448
PfoI	1	5843
PpuMI	1	2277
PshAI	1	3241
PspOMI	1	2568
RsrII	1	3622
SanDI	1	2277
SapI	1	1443
SfoI	1	982
SgrDI	1	2
SpeI	1	253
XbaI	1	2576

p201 (pPRIME-CMV-GFP-FF3)

SgrDI

5' gtcgacggatcgggagatctcccgatcccctatggtgcactctcagtacaatctgctctgatgccgcatagttaagccagtatctgctccctgcttgtgt
 100
 3' cagctgcctagccctctagagggctaggggataccacgtgagagtcaggttagacgagactacggcgtatcaattcgggtcatagacgagggacgaacaca
 +

5' gttggaggtcgctgagtagtgcgcgagcaaaathtaagctacaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttaggggttaggcgttt
 200
 3' caacctccagcgactcatcacgcgctcgttttaattcgatggttccgttccgaactggctgtaacgtacttcttagacgaatccaatccgcaaaa
 +

Spel

5' gcgctgcttcgogatgtacgggcccagatatacgcgcttgacattgattattgactagttattaatagtaatacaattacgggggtcattagttcatagcccat
 300
 3' cgcgacgaagcgctacatgcccggctctatatgcgcaactgtaactaataactgatcaataattatcattagttaatgcccagtaatacaagtatcgggta
 +

5' atatggagttccgcttacataaacttacggtaaatggcccgcctggctgaccgcccacgacccccgccattgacgtcaataatgacgtatgttcccat
 400
 3' tatacctcaaggcgcaatgtattgaatgccatttacggggcggaccgactggcgggttgctggggcgggtaactgcagttattactgcatacaagggt
 +

5' agtaacgccaatagggactttccattgacgtcaatgggtggagatattacggtaaaactgcccaacttggcagtacatcaagtgtatcatatgccaaagtacg
 500
 3' tcatgcggttatccctgaaaggtaactgcagttaccacctcataaatgccattgacgggtgaaccgtcatgtagttcacatagtatacggttcatgc
 +

5' cccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtagacattatgggactttcctacttggcagtagacatctacgtattag
 600
 3' gggggataactgcagttactgcccattaccggggcggaccgtaatacgggtcatgtactggaataccctgaaaggatgaaccgtcatgtagatgcataatc
 +

5' tcatcgctattaccatgggtgatgcgggttttggcagtagacatcaatgggcgtggatagcgggttgactcacggggatttccaagtctccacccattgacgt
 700
 3' agtagcgataatggtaccactacgcaaaaaccgtcatgtagttaccggcacctatcgccaaactgagtgcccctaaagggttcagaggtgggtaactgca
 +

5' caatgggagttgttttggcaccaaaatcaacgggactttccaaaatgtcgtacaactccgccccattgacgcaaatgggcggtaggcgtgtacgggtg
 800
 3' gttaccctcaaacaaaaccgtggttttagttgcctgaaagggttttacagcatggtgagggcgggtaactgcgtttaccggccatccgcatgccacc
 +

5' gaggtctatagaccagatctgagcctgggagctctctggctaactaggaaccactgcttaagcctcaataaagcttgcttgagtgctcaagtagtg
 900
 3' ctccagatatctggctagactcggaccctcgagagaccgattgatccctgggtgacgaattcggagttatttgaacggaactcacgaagttcatcac
 +

LTR

KasI
 NarI
 SfoI
 BbeI

5' tgtgccgctctgttgtgtgactctggttaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgggcggccgaacagggacttgaa
 1000
 3' acacgggcagacaacacactgagaccattgatctctagggagctctgggaaaaatcagtcacaccttttagagatcgtcaccgcgggcttgctccctgaactt
 +

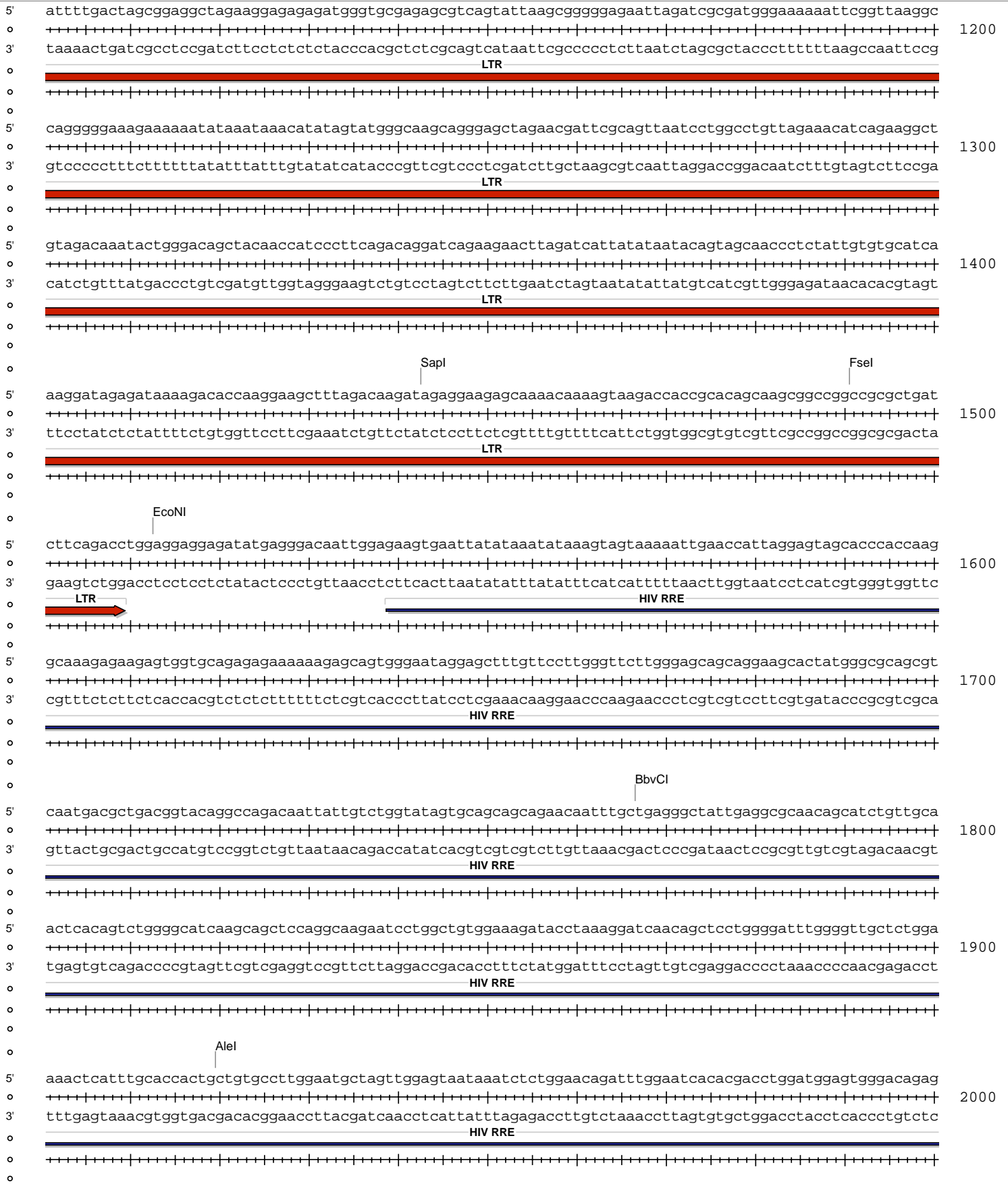
LTR

BssHII

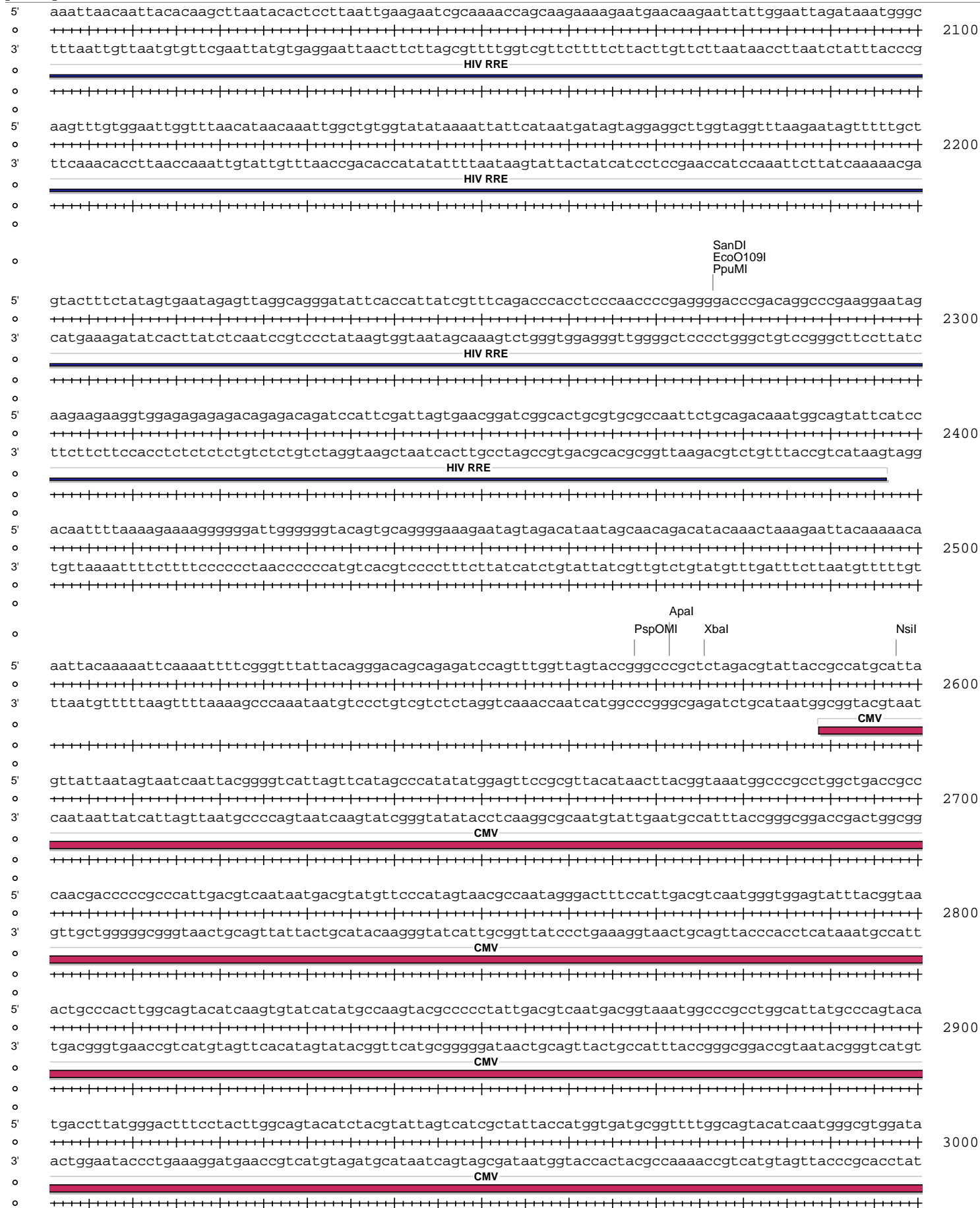
5' agcgaagggaaccagaggagctctctcgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcggcactggtgagtacgcaaaa
 1100
 3' tcgctttcccttggctcctcagagagactgcgctcctgagccgaacgacttcgcgctgcccgttctccgctccccgcccgtgaccactcatgcggtttt
 +

LTR

p201 (pPRIME-CMV-GFP-FF3)

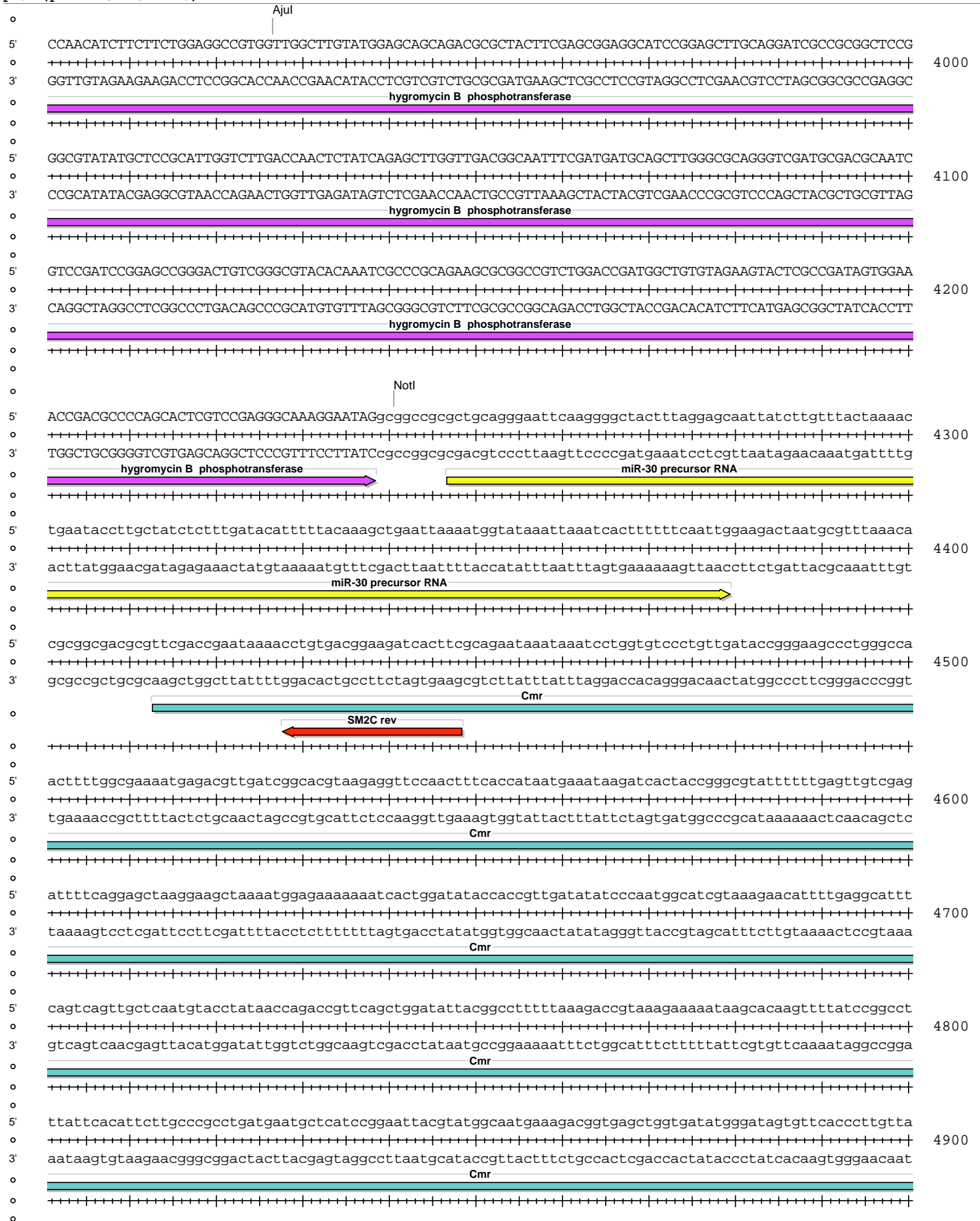


p201 (pPRIME-CMV-GFP-FF3)



p201 (pPRIME-CMV-GFP-FF3)





p201 (pPRIME-CMV-GFP-FF3)

5' caccgttttccatgagcaaacgtaaactgaaacgcttttccatcgctctggagtgaaataccacgacgatttccggcagtttctacacatatattcgcaagatgtggcg
 3' gtggcaaaaggtactcgtttgactttgcaaaagtagcgcgagacctcacttatgggtgctgctaaaggccgtcaaagatgtgtatataagcgttctacaccgc
 Cmr

5' tgttacggtgaaaacctggcctatttccctaaagggtttattgagaatatgttttctcagccaatccctgggtgagtttcaccagtttgatttaa
 3' acaatgccacttttgaccggataaagggtatttccaaataactcttatacaaaaagcagagtcggttagggaccactcaaagtggtcaaaactaaatt
 Cmr

MscI

5' acgtggccaatatggacaacttcttcgccccgcttttcccatgggcaaatattatacgcaaggcgacaagggtgctgatgccgctggcgattcaggttca
 3' tgcaccggttatacctgttgaagaagcggggcaaaagtggtagccgtttataaatatgcttccgctgttccacgactacggcgaccgctaagtccaagt
 Cmr

5' tcatgccggttgatggcttccatgtcggcagaatgcttaataatgatacaacagctactgcgatgagtgccagggcggggcgtaattttttaaggcagt
 3' agtacggcaaacactaccgaaggtacagccgtcttacgaattacttaatgtgtcatgacgctactcaccgtcccgcgccgattaaaaaaaaattccgtca
 Cmr

5' tattggtgcccttaaacgcctgggtgctacgcctgaataagtgataataagcggatgaatggcagaaattcggatctcgaccgcttggggcggtggctc
 3' ataaccacgggaatttgcggaccaacgatgcggacttatcactattatcgcctactaccgctcttaagcctagagctggcgcaaacccgccaccgag
 Cmr

PciI Pacl

5' cctgccacgcggtccgaacagaagctgatctccgaagaggatctgacatgtgtttaaacctcgacttaattaagtcgagggctcgacgggatcgataagc
 3' ggacggtgcgcccaggcttgtcttcgactagaggttctcctagactgtacacaaatttggagctgaattaatcagctcccagctgccatagctattcg
 Cmr

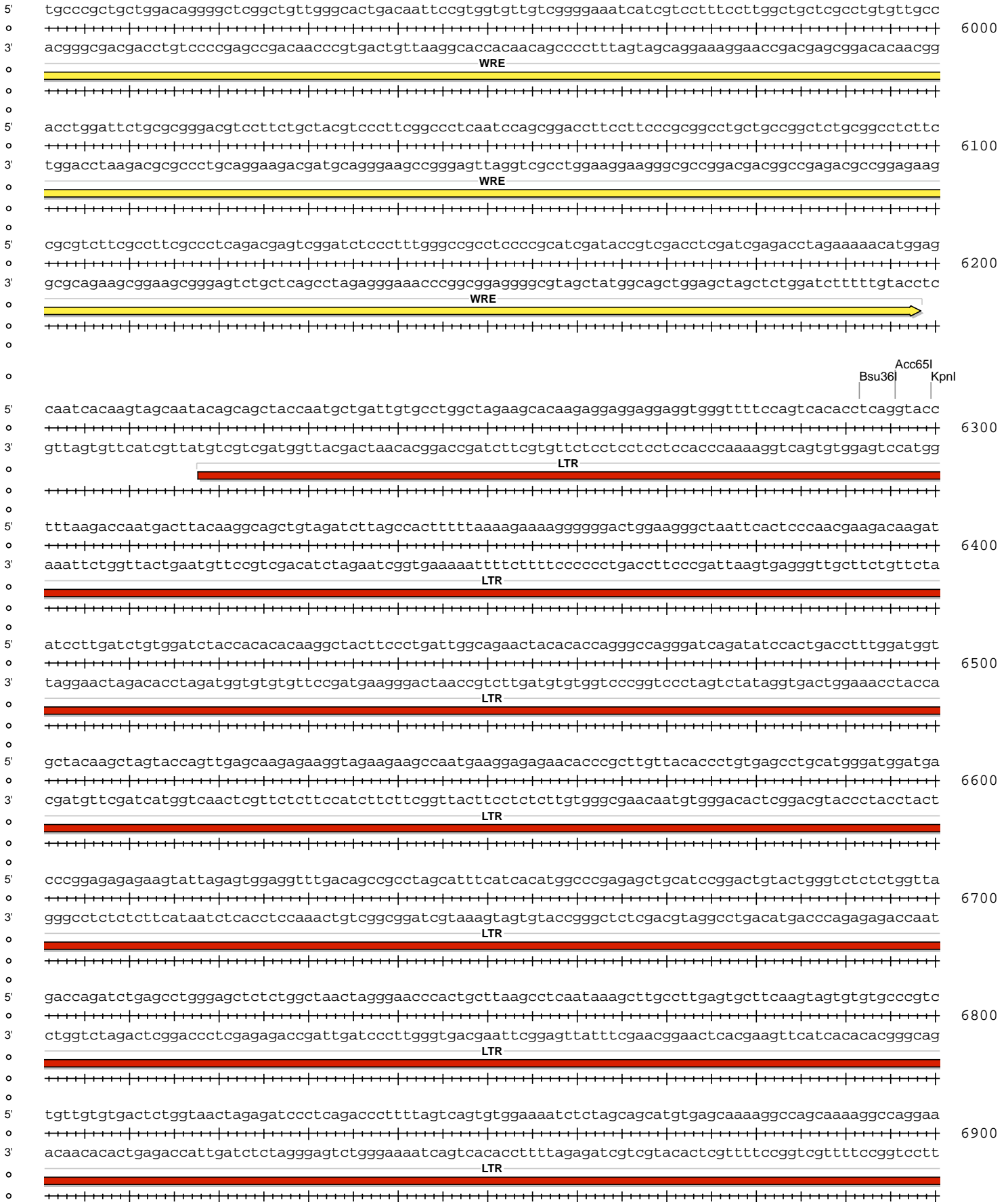
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 5' attgactggtattcttaactatgttgctccttttacgctatgtggatacgcgtgctttaatgcctttgtatcatgctattgcttcccgatggctttcatt
 3' taactgaccataagaattgatataacgaggaaaatgcgatacacctatgcgacgaaattacggaaacatagtagcgaacgaagggcataaccgaaagtaa
 WRE

5' ttctcctcctgtataaatcctggttgcgtctctttatgaggagtgtggcccgttgcaggaacgtggcgtgggtgactgtgttgcgca
 3' aagaggaggaacatattaggaccaacgacagagaataactcctcaacaccgggcaacagtcggttgaccgcaccacagtgacacaaacgactgcgtt
 WRE

PfoI

5' cccccactggttggggcattgccaccacctgtcagctcctttccgggactttcgtttccccctccctattgccacggcggaactcatcgccgctgct
 3' gggggtgaccaaccccgtaacggtggtggacagtgcgaggaaggccctgaaagcgaagggggaggataacggtgcccgccttgagtagcggcggaacgga
 WRE

p201 (pPRIME-CMV-GFP-FF3)



p201 (pPRIME-CMV-GFP-FF3)

5' ccgtaaaaaggccgcttgctggcgttttccataggctccgccccctgacgagcatcacaaaaatcgacgctcaagtcaagaggtggcgaaacccgcaca
 7000
 3' ggcatTTTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTAGCTGCGAGTTCAGTCTCCACCCTTTGGGCTGT
 LTR
 ggacataaaagataaccaggcgtttccccctggaagctccctcgtgcgctctcctggtccgacctgccgcttacgggatacctgtccgcctttctccctt
 7100
 3' cctgatatttctatgggtccgcaaagggggaccttcgagggagcagcgagaggacaaggctgggacggcgaatggcctatggacaggggaaagaggaa
 cgggaagcgtggcgctttctcatagctcacgctgtaggtatctcagttcggtgtaggtcggttcgctccaagctgggctgtgtgcacgaacccccgcttca
 7200
 3' gcccttcgaccgcgaaagagtatcgagtgcgacatccatagagtcaagccacatccagcaagcgaggttcgacccgacacacgtgcttggggggcaagt
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 7300
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 7400
 3' tctcgctccatacatccgccacgatgctcaagaacttcaccaccggatgatgccgatgctctcttgatataaacatagacgcgagacgacttcg
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 7500
 3' gtcaatggaagcctttttctcaaccatcgaaaactaggccgtttgttgggtggcgacctcgcacacaaaaaaacaaacgttcgtcgtcctaatgpcgctc
 aaaaaaggatctcaagaagatcctttgatcttttctacggggtctgacgctcagtggaacgaaaactcacgtaaagggattttggatgagattatca
 7600
 3' ttttttctctagagttcttctaggaactagaaaagatgccccagactgcgagtcaccttgcttttgagtgcaattccctaaaaccagtaactctaagat
 aaaagatcttcacctagatccttttaaataaaaatgaagttttaaatacaatcctaaagtatataatgagtaaaacttggctgacagttaccaatgcttaa
 7700
 3' tttcctagaagtggatctaggaaaatttaattttacttcaaaatttagttagattccatataactcatttgaaccagactgtcaatggttacgaatt
 tcagtgaggacacctatctcagcagatctgtctatttcgttcatccatagttgcctgactccccgctcgtgtagataactacgatacgggaggcttaccatc
 7800
 3' agtcactccgtggatagagtcgctagacagataaagcaagtaggtatcaaccggactgagggggcagcacatctatgatgctatgccctcccgaatggtag
 tggccccagtgctgcaatgataaccgcgagaccacgctcaccggctccagatattatcagcaataaacaccagccagccggaagggccgagcgcagaagtggt
 7900
 3' accggggtcagcagcttactatggcgctctgggtgaggtgagtgagggtctaataagtcgctatttgggtcggtcggcctcccggctcgcgctctcacca
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 3' ggacggtgaaataggcggaggttaggtcagataattaacaaccggcccttcgatctcattcatcaagcgggtcaattatcaaacgcggtgcaacaaccggtaac
 ctacaggcatcgtgggtgacgctcgtcgttgggtatggcttcattcagctccgggtcccaacgatcaagggcaggttacatgatccccatggtgtgcaa
 8100
 3' gatgctcgtagaccacagtcgagcagcaaacataccgaagtaagtcgaggccaaggggtgctagttccgctcaatgtactagggggtacaacacgctt

AhdI



FspI



p201 (pPRIME-CMV-GFP-FF3)

```

5'   aaaagcggtagctccttcggtcctccgatcgttgtcagaagtaagtggccgcagtggtatcactcatgggtatggcagcactgcataattctcttact
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'   ttttcgccaatcgaggaagccaggaggttagcaacagctcttcaaccggcggtcaccaatagtgagtagcaataaccgtcgtgacgtattaagagaatga
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
o
BclI                                     BclI'
|                                          |
5'   gtcatgccatccgtaagatgcttttctgtgactggtgagtactcaaccaagtcatctcgagaatagtgtatgcccggaccgagttgctcttgcccggcgt
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'   cagtacggtaggcattctacgaaaagacactgaccactcatgagttggttcagtaagactcttatcacatgcccgtgggtcaacgagaacgggccgca
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'   caatacgggataataccggccacatagcagaactttaaaagtgctcatcattgaaaacgttcttcggggcgaaaactctcaaggatcttaccgctgtt
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'   gttatgccctattatggcgcggtgatcgtcttgaattttcacgagtagtaaccttttgaagaagccccgcttttgagagttcctagaatggcgacaa
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'   gagatccagttcgatgtaaccactcgtgcaccaactgatcttcagcatctttactttcaccagcgttctctgggtgagcaaaaaagggaaggcaaaat
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'   ctctagggtcaagctacattgggtgagcacgtgggttgactagaagtcgtagaaaatgaaagtggtcgcaaaagaccactcgttttgtccttccgtttta
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'   gccgcaaaaaagggaataagggcgacacggaaatgttgaataactcatactcttcccttttcaatattatgaagcatttatcagggttattgtctcatga
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'   cggcggtttttcccttattcccgtgtgctttacaacttatgagtagagaaggaaaaagttataataacttcgtaaatagtccaataacagagtact
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'   gcgatacatatttgatgtatttagaaaaataacaaataggggttccgcgcacatttcccgaagaagtgccacctgac
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'   cgcctatgtataaacttacataaaactttttattgtttatcccgaaggcgcgtgtaaaggggcttttcacgggtggactg
o   +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o

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8200
8300
8400
8500
8600
8680