

Absent Sites	0	Aarl,AbsI,Ajul,Ajul',AlfI,AlfI',Alol,Alol',Ascl,AsiSI,AvrII,BaeI,BaeI',BamHI,BarI,BarI',BclI,BlpI,BmgBI,BsaBI,BsiWI,BspMI,BstBI,BstEII,BstXI,BstZ17I,FspAI,MauBI,MreI,PmlI,PshAI,PsiI,PspXI,Psrl,Psrl',RsrII,SbfI,SexAI,SfiI,SgrAI,Smal,SphI,SrfI,StuI,Swal,TstI,TstI',Tth111I,XcmI,XmaI
Acc65I	1	6218
AfeI	1	3195
AgeI	1	3199
AhdI	1	7683
ApaI	1	2572
BbeI	1	984
BbvCI	1	1767
BmtI	1	3194
BsaXI	1	2191
BsaXI'	1	2161
BsrGI	1	3921
BssHII	1	1054
Bsu36I	1	6214
DrdI	1	6898
EcoNI	1	1513
EcoO109I	1	2277
EcoRI	1	4178
FseI	1	1491
FspI	1	7905
HpaI	1	4058
KaI	1	980
KpnI	1	6222
MscI	1	5029
NarI	1	981
NheI	1	3190
NotI	1	3932
NsiI	1	2598
PacI	1	5394
PciI	1	5370
PpuMI	1	2277
PspOMI	1	2568
PstI	1	2380
SacII	1	5995
SanDI	1	2277
SapI	1	1443
SfoI	1	982
SgrDI	1	2
SpeI	1	253
XbaI	1	2576
XhoI	1	4073

p201 (pPRIME-CMV-GFP-FF3)

o SgrDI

5' gtcgacggatcgggagatctcccgatcccctatggtgcactctcagtacaatctgctctgatgccgcatagttaagccagtatctgctccctgcttgtgt
o ++++++ 100
3' cagctgcctagccctctagagggctaggggataccacgtgagagtcaggttagacgagactacggcgtatcaattcgggtcatagacgagggacgaacaca
o ++++++

o

5' gttggaggtcgctgagtagtgcgcgagcaaaathtaagctacaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttaggggttaggcgtttt
o ++++++ 200
3' caacctccagcgactcatcacgcgctcgttttaattcgatggttccgttccgaactggctgtaacgtacttcttagacgaatccaatccgcaaaa
o ++++++

o

o Spel

5' gcgctgcttcgogatgtacgggcccagatatacgcgcttgacattgattattgactagttattaatagtaatacaattacgggggtcattagttcatagcccat
o ++++++ 300
3' cgcgacgaagcgctacatgcccggctctatatgcgcaactgtaactaataactgatcaataattatcattagttaatgcccagtaatacaagtatcgggta
o ++++++

o

5' atatggagttccgcttacataaacttacggtaaatggcccgcctggctgaccgcccacgacccccgccattgacgtcaataatgacgtatgttcccat
o ++++++ 400
3' tatacctcaaggcgcaatgtattgaatgccatttacggggcggaccgactggcgggttgctggggcgggtaactgcagttattactgcatacaagggtta
o ++++++

o

5' agtaacgccaatagggactttccattgacgtcaatgggtggagatattacggtaaaactgcccaacttggcagtacatcaagtgtatcatatgccaaagtacg
o ++++++ 500
3' tcatgcggttatccctgaaaggtaactgcagttaccacctcataaatgccattgacgggtgaaccgtcatgtagttcacatagatacggttcatgc
o ++++++

o

5' cccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtacatgacctatgggactttcctacttggcagtacatctacgtattag
o ++++++ 600
3' gggggataactgcagttactgccatttacggggcggaccgtaatacgggtcatgtactggaataccctgaaaggatgaaccgtcatgtagatgcataatc
o ++++++

o

5' tcatcgctattaccatgggtgatgcgggttttggcagtacatcaatgggcgtggatagcgggttgactcacggggatttccaagtctccacccattgacgt
o ++++++ 700
3' agtagcgataatggtaccactacgcaaaaaccgtcatgtagttaccgcacctatcgccaaactgagtgcccctaaagggttcagaggtgggtaactgca
o ++++++

o

5' caatgggagttgttttggcaccaaaatcaacgggactttccaaaatgctgtaacaactccgccccattgacgcaaatggcggttaggcgtgtacgggtg
o ++++++ 800
3' gttaccctcaaacaaaaccgtggttttagttgcctgaaagggttttacagcatggttgaggcgggtaactgcgtttaccggccatccgcacatgccacc
o ++++++

o

5' gaggtctatagaccagatctgagcctgggagctctctggctaactaggaaccactgcttaagcctcaataaagcttgcttgagtgctcaagtagtg
o ++++++ 900
3' ctccagatatctggctagactcggaccctcgagagaccgattgatccctgggtgacgaattcggagttatttgaacggaactcacgaagttcatcac
o ++++++

o LTR

o ++++++

o

o KasI
o NarI
o SfoI
o BbeI

5' tgtgccgctctgttgtgtgactctggtaaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgggcggccgaacagggacttgaa
o ++++++ 1000
3' acacgggcagacaacacactgagaccattgatctctagggagctctgggaaaaatcagtcacaccttttagagatcgtcaccgcgggcttgcctcctgaactt
o ++++++

o LTR

o ++++++

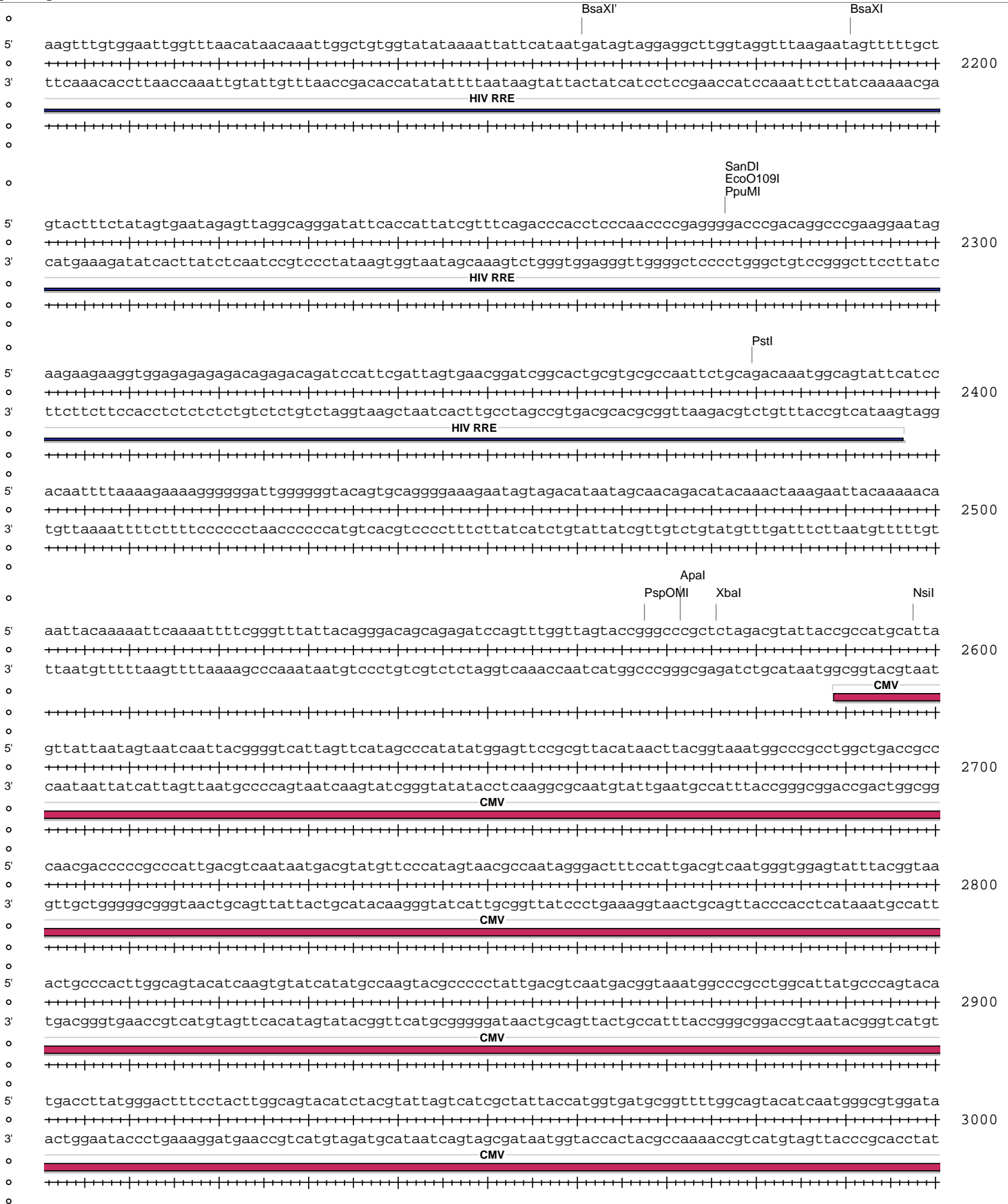
o

o BssHII

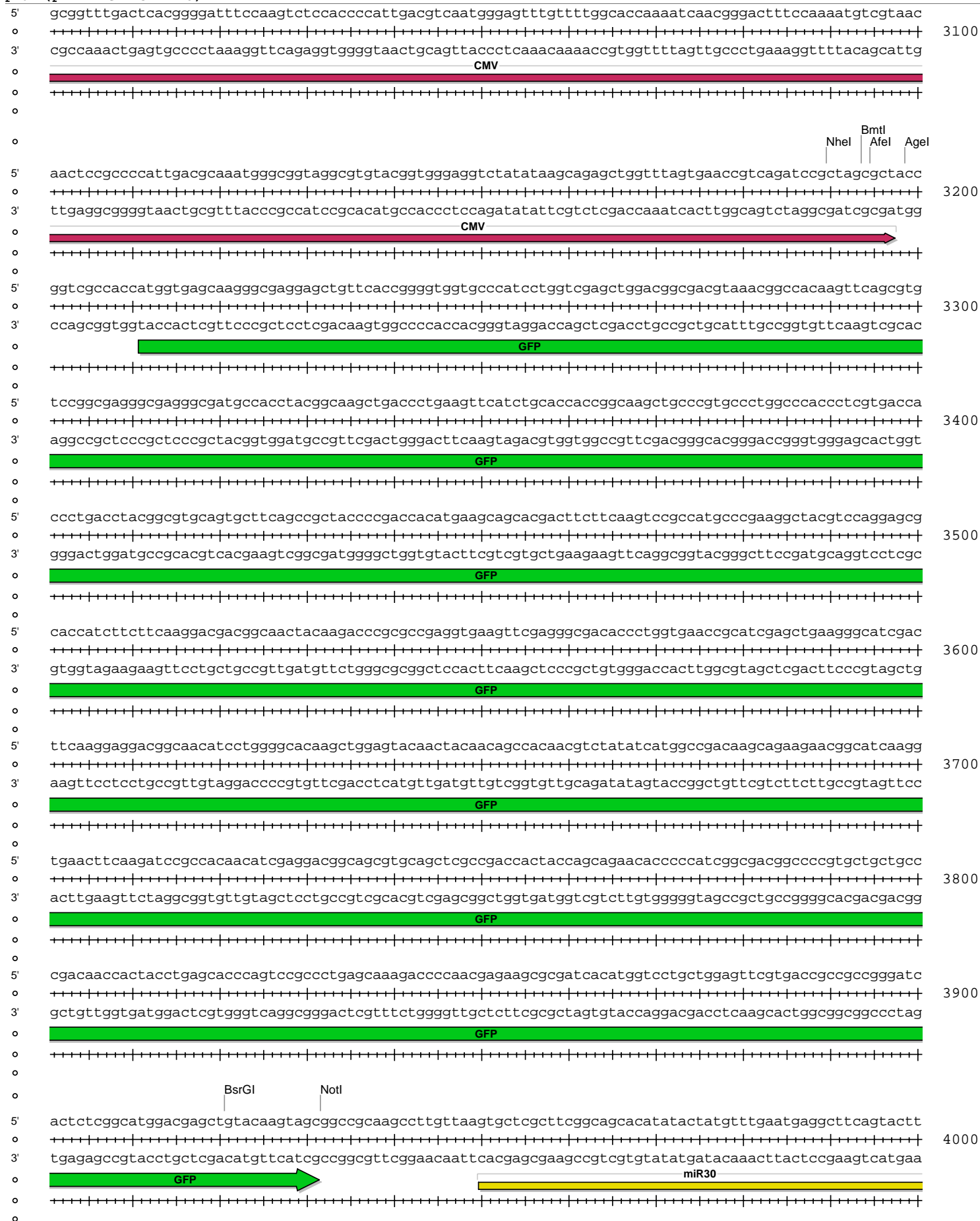
5' agcgaagggaaccagaggagctctctcgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcggcactggtgagtagcgcacaaa
o ++++++ 1100
3' tcgctttcccttggctcctcagagagactgcgctcctgagccgaacgacttcgcgcgctgcccgttctccgctccccgcccgtgaccactcatgcggtttt
o ++++++

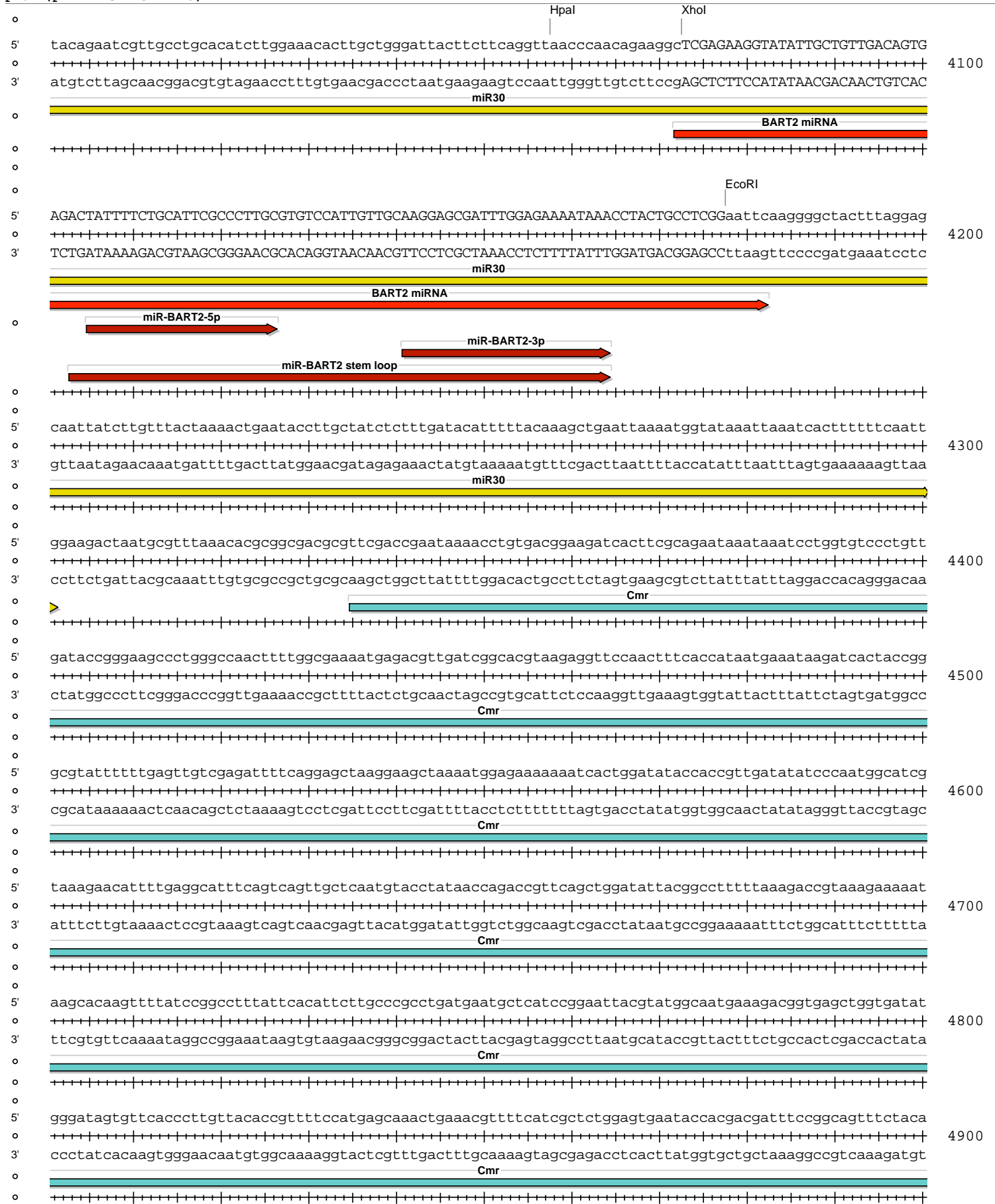
o LTR

o ++++++



p201 (pPRIME-CMV-GFP-FF3)





p201 (pPRIME-CMV-GFP-FF3)

5' catatattcgaagatgtggcgtgttacggtgaaaacctggcctatttcctaaggggtttattgagaatatgttttctcagccaatccctgggtg
 3' gtatataagcgttctacaccgcacaatgccacttttgaccggataaaggatttcccaataactcttatacaaaaagcagagtcgggttagggaccac
 Cmr

5' agtttcaccagttttgatttaacgtggccaatatggacaacttcttcgccccgtttcaccatgggcaaataattatacgaaggcgacaagggtgctga
 3' tcaaagtggtcaaaactaaatttgcaccgggtatacctgttgaagaagcgggggcaaaagtggtaccggttataaatatgcggtccgctgttccacgact
 Cmr

5' tgccgctggcgattcagggttcatcatgcccgtttgtgatggcttccatgtcggcagaatgcttaataatgaaatacaacagtagctgcatgagtgccagggcgg
 3' acggcgaccgctaagtccaagtagtacggcaaacactaccgaaggtacagccgctctacgaattacttaatgtgtcatgacgctactcaccgtcccgc
 Cmr

5' ggcgtaatttttaaggcagttattggtgcccttaaacgcctggttgcctacgcctgaataagtataaagcggatgaatggcagaaattcggatctc
 3' ccgcatataaaaaattccgtaataaccacgggaatttgcggaccacgatgcccacttattcactattatcgcctacttaccgctcttaagcctagag
 Cmr

5' gaccgcttggggcgtggctccctgccacgcggctccgaacagaagctgatctccaagaggatctgacatgtgttaaacctcgacttaattaagtgc
 3' ctggcgcaaacccgccaccgaggacggtgcgccgaggcttctcctagactgtacacaaattggagctgaattaattcagc
 Cmr

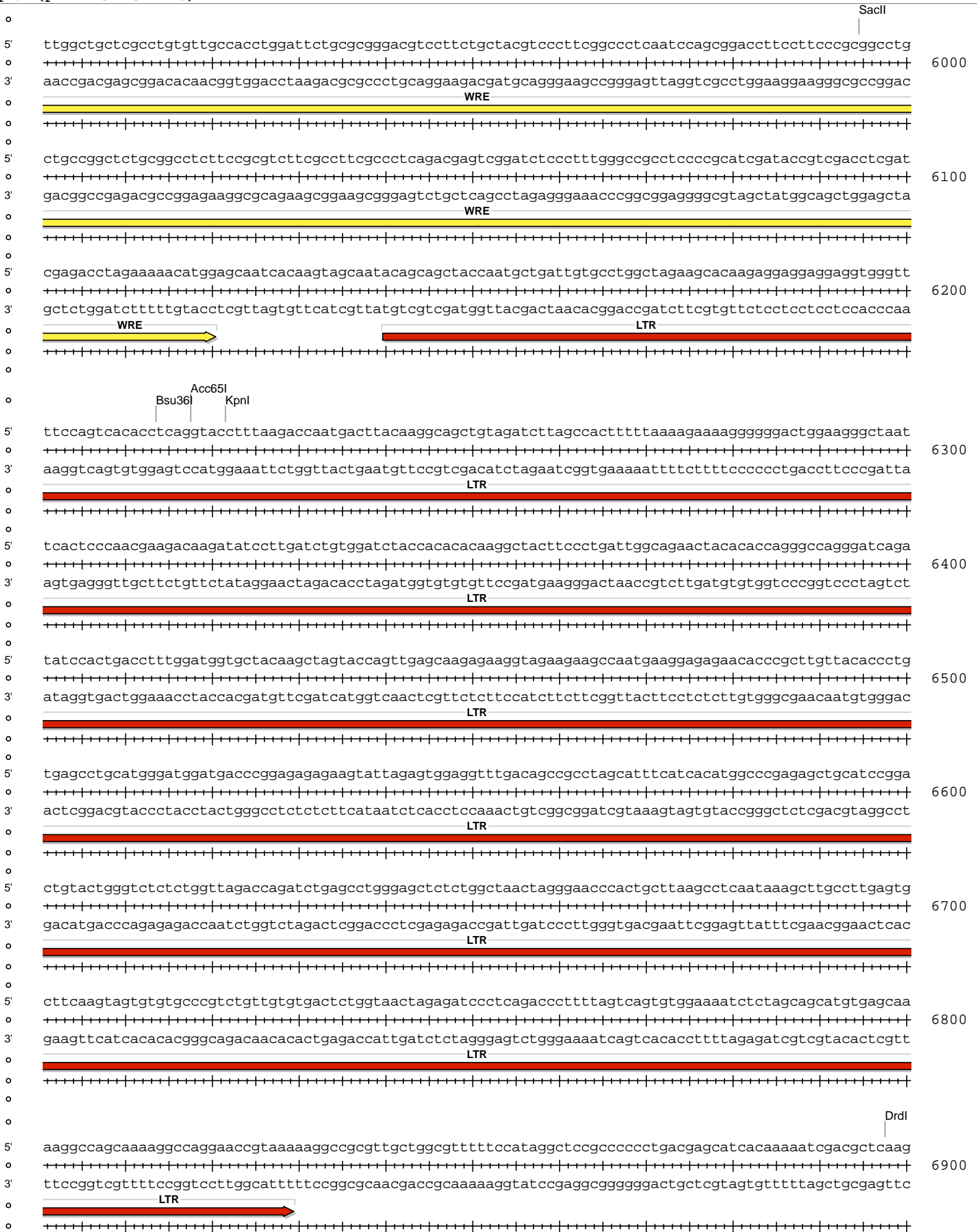
5' agggtcgacggtatcgataagctcgcttccagagatcatgtttaagggttccggttccactaggtacaattcgatatcaagcttatcgataatcaacctc
 3' tcccagctgcatagctattcgagcgaagtgcctagtagcaaatcccaaggccaaggtgatccatgttaagctatagttcgaatagctatagttggag

5' tggattacaaaatttgtaaagattgactggatcttctaactatgttgcctctttacgctatgtggatacgcctttaaagccttggatcatgctat
 3' acctaagtgtttaaacactttctaactgaccataagaattgatacaacgaggaatgagatacacctatgacgacgaaatcaggaacatagtagcagata
 WRE

5' tgcttcccgtatggctttcattttctcctccttgataaatcctgggtgctgctctttatgaggagttgtggcccgttgcaggcaacctggcgtggg
 3' acgaagggcataccgaaagtaaaagaggaggaacatatttaggaccaacgacagagaataactcctcaacaccgggcaacagtcggttgcaccgcaccac
 WRE

5' tgcactgtgtttgctgacgcaacccccactggttggggcattgccaccacctgctcagctccttccgggactttcgcttccccctccctattgccacgg
 3' acgtgacacaaacgactgcttgggggtgaccaaccccgtaacggtggtggacagtcgaggaaggccctgaaagcgaagggggagggataacggtgcc
 WRE

5' cggaaactcatcgccgctgcttgcctgcccgtgctggacaggggctcggtgttgggcaactgacaattccgtggtgtgtcggggaatcatcgctccttcc
 3' gccttgagtagcggcgacggaacgggcgacgacctgtcccagccgcaaacccgtgactgttaaggcaccacaacagccccttagtagcaggaagg
 WRE



p201 (pPRIME-CMV-GFP-FF3)

```

5'   tcagaggtggcgaaacccgacaggactataaagataccaggcgtttcccctggaagctccctcgtgcgctctcctgttccgacacctgccgcttaccgga
o   ++++++
3'   agtctccaccgctttgggctgtcctgatatttctatggtccgcaagggggaccttcgagggagcacgcgagaggacaaggctgggacggcgaatggcct
o   ++++++
o
5'   tacctgtccgctttctccctcgggaagcgtggcgctttctcatagctcacgctgtaggtatctcagttcgggtgtaggtcgctccaagctgggct
o   ++++++
3'   atggacaggcggaaagaggaagcccttcgcaccgcgaaagagatcgagtgcgacatccatagagtcagccacatccagcaagcgaggttcgacccga
o   ++++++
o
5'   gtgtgcacgaaccccccgcttcagcccagccgctgcgcttatccggtaactatcgtcttgagtccaaccggtaagacacgacttatcgccactggcagc
o   ++++++
3'   cacacgtgcttggggggcaagtgggctggcgacgcggaataggccattgatagcagaactcaggttgggcatctctgtgctgaatagcggtgaccgtcg
o   ++++++
o
5'   agccactggtaacaggattagcagagcgaggtatgtaggcggtgctacagagttcttgaagtggggcctaactacggctacactagaagaacagattt
o   ++++++
3'   tcggtgaccattgtcctaactcgtctcgtccatacatccgccacgatgtctcaagaacttcaccaccgattgatgccgatgtgatcttctgtcataaa
o   ++++++
o
5'   ggtatctgcgctctgtggaagccagttaccttcggaaaaagagttggtagctcttgatccggcaaacaaaccacgctggtagcggtgttttttgttt
o   ++++++
3'   ccatagacgcgagacgacttcggtcaatggaagccttttctcaaccatcgagaactaggccggttgtttgggtggcgacatcgccaccaaaaaaaciaa
o   ++++++
o
5'   gcaagcagcagattacgcgcagaaaaaaggatctcaagaagatccttgatcttttctacggggtctgacgctcagtggaacgaaaactcacgtaagg
o   ++++++
3'   cgttcgtcgtctaatacgcgctcttttttctagagttcttctagaaaactagaaaagatgcccagactgcgagtcaccttgcttttgagtgcaattcc
o   ++++++
o
5'   gatttgggtcatgagattatcaaaaaggatcttcacctagatccttttaattaaaaatgaagttttaaataaatctaaagtataatgagtaaaactgg
o   ++++++
3'   ctaaaaccagtactctaatagttttctcctagaagtgatctaggaaaatttaattttacttcaaaatttagttagattccatatatactcatttgaacc
o   ++++++
o
o
o
5'   tctgacagttaccaatgcttaatcagtgaggcacctatctcagcgatctgtctatctcgttcacatagttgcctgactccccgctcgtgtagataacta
o   ++++++
3'   agactgtcaatgggtacgaatagtcactccgtggatagagtcgctagacagataaagcaagtaggtatcaacggactgaggggcagcacatctattgat
o   ++++++
o
5'   cgatacgggagggcttaccatctggcccagtgctgcaatgataccgcgagacccacgctcaccggctccagatttatcagcaataaaccagccagccg
o   ++++++
3'   gctatgccctccgaatggtagaccggggtcacgacgtactatggcgctctgggtgagtgagggcaggtctaaatagtcgttatgttggtcggtcgcc
o   ++++++
o
5'   aaggccgagcgcagaagtggctcctgcaactttatccgctccatccagtcatttaattgtgcccgggaagctagagtaagtagttcgccagttaatagt
o   ++++++
3'   ttcccggctcgcgcttcaccaggacgttgaataggcggaggtaggtagataattaacaacggcccttcgatctcatcatcaagcgggtcaattatca
o   ++++++
o
o
o
5'   ttgcgcaacgcttgggtccattgctacaggcatcgtgggtgcacgctcgtcgtttggtaggcttcattcagctccggttccaacgatcaaggcaggtta
o   ++++++
3'   aacgcgctgcaacaacggtaacgatgtccgtagcaccacagtgcgagcagcaaacataaccgaagtaagtcgagggccaagggtgctagttccgctcaat
o   ++++++
o
5'   catgatccccatgtgtgcaaaaaagcgggttagctccttcgggtcctccgatcgttgtcagaagtaagttggccgcagtggttatcactcatgggtatggc
o   ++++++
3'   gtactaggggtacaacacgctttttcgcctcaggaagcaggaggttagcaacagtcctcattcaaccggcgtcacaatagtgagtaccaataaccg
o   ++++++
o
5'   agcactgcataattctctactgtcatgccatccgtaagatgcttttctgtgactggtagtactcaaccaagtcatctgagaatagtgatgcccgca
o   ++++++
3'   tcgtgacgtattaagagaatgacagtagcgttaggcattctacgaaaagacactgaccactcatgagttgggtcagtaagactcttatcacatacgcgct
o   ++++++
o
o

```

AhdI

FspI

7000
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000
8100
8200

