

Absent Sites	0	Aarl,AbsI,Ajul,Ajul',AlfI,AlfI',Alol,Alol',AscI,AsiSI,AvrII,BaeI,BaeI',BamHI,BarI,BarI',BclI,BlpI,BsaBI,BsiWI,BspMI,BstBI,BstEII,BstXI,BstZ17I,FspAI,MauBI,MreI,PmlI,PshAI,PsiI,PspXI,PsrI,PsrI',RsrII,SbfI,SexAI,SfiI,SgrAI,SmaI,SphI,SrfI,StuI,Swal,Tth111I,XcmI,XmaI
Acc65I	1	6216
AfeI	1	3195
AgeI	1	3199
AhdI	1	7681
ApaI	1	2572
BbeI	1	984
BbvCI	1	1767
BmgBI	1	4120
BmtI	1	3194
BsaXI	1	2191
BsaXI'	1	2161
BsrGI	1	3921
BssHII	1	1054
Bsu36I	1	6212
EcoNI	1	1513
EcoO109I	1	2277
EcoRI	1	4176
FseI	1	1491
FspI	1	7903
HpaI	1	4058
KasI	1	980
KpnI	1	6220
MscI	1	5027
NarI	1	981
NheI	1	3190
NotI	1	3932
NsiI	1	2598
PacI	1	5392
PciI	1	5368
PpuMI	1	2277
PspOMI	1	2568
PstI	1	2380
SacII	1	5993
SanDI	1	2277
SapI	1	1443
SfoI	1	982
SgrDI	1	2
SpeI	1	253
TstI	1	4136
TstI'	1	4104
XbaI	1	2576
XhoI	1	4073

p201 (pPRIME-CMV-GFP-FF3)

SgrDI

5' gtcgacggatcgggagatctcccgatcccctatggtgcactctcagtacaatctgctctgatgccgcatagttaagccagtatctgctccctgcttgtgt
 100
 3' cagctgcctagccctctagagggctaggggataccacgtgagagtcaggttagacgagactacggcgatcaattcgggtcatagacgagggacgaacaca
 +

5' gttggaggtcgctgagtagtgcgcgagcaaaathtaagctacaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttaggggttaggcgttt
 200
 3' caacctccagcgactcatcacgcgctcgttttaattcgatggtgttccgttccgaactggctgtaacgtacttcttagacgaatccaatccgcaaaa
 +

Spel

5' gcgctgcttcgogatgtacgggcccagatatacgcgcttgacattgattattgactagttattaatagtaatacaattacgggggtcattagttcatagcccat
 300
 3' cgcgacgaagcgctacatgcccggctctatatgcgcaactgtaactaataactgatcaataattatcattagttaatgcccagtaatacaagtatcgggta
 +

5' atatggagttccgcttacataaacttacggtaaatggcccgcctggctgaccgcccacgacccccgccattgacgtcaataatgacgtatgttcccat
 400
 3' tatacctcaaggcgcaatgtattgaatgccatttacggggcggaccgactggcgggtgctggggcgggtaactgcagttattactgcatacaagggt
 +

5' agtaacgccaatagggactttccattgacgtcaatgggtggagatattacggtaaaactgcccaacttggcagtacatcaagtgtatcatatgccaaagtacg
 500
 3' tcatgcggttatccctgaaaggtaactgcagttaccacactcataaatgccattgacgggtgaaccgtcatgtagttcacatagatacggttcatgc
 +

5' cccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtacatgacctatgggactttcctacttggcagtacatctacgtattag
 600
 3' gggggataactgcagttactgccatttacggggcggaccgtaatacgggtcatgtactggaataccctgaaaggatgaaccgtcatgtagatgcataatc
 +

5' tcatcgctattaccatgggtgatgcggttttggcagtacatcaatgggcgtggatagcgggttgactcacggggatttccaagtctccacccattgacgt
 700
 3' agtagcgataatggtaccactacgcaaaaaccgtcatgtagttaccgcacactatcgccaaactgagtgcccctaaagggttcagaggtgggtaactgca
 +

5' caatgggagttgttttggcaccaaaatcaacgggactttccaaaatgctgtaacaactccgccccattgacgcaaatggcggttaggcgtgtacgggtg
 800
 3' gttaccctcaaacaaaaccgtggttttagttgcctgaaagggttttacagcatggttgaggcgggtaactgcgtttaccggccatccgcacatgccacc
 +

5' gaggtctatagaccagatctgagcctgggagctctctggctaactaggaaccactgcttaagcctcaataaagcttgcttgagtgctcaagtagtg
 900
 3' ctccagatatctggctagactcggaccctcgagagaccgattgatccctgggtgacgaattcggagttatttgaacggaactcacgaagttcatcac
 +

LTR

KasI
 NarI
 SfoI
 BbeI

5' tgtgccgctctgttgtgtgactctggtaaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgggcgccgaacagggacttgaa
 1000
 3' acacgggcagacaacacactgagaccattgatctctagggagctctgggaaaaatcagtcacaccttttagagatcgtcaccgcgggcttgcctcctgaactt
 +

LTR

BssHII

5' agcgaagggaaccagaggagctctctcgacgcaggactcggcttgcctgaagcgcgcacggcaagaggcgaggggcggcactggtgagtagcgcacaaa
 1100
 3' tcgctttcccttggctcctcagagagactgcgctcctgagccgaacgacttcgcgcgctgcccgttctccgctccccgcccgtgaccactcatgcggtttt
 +

LTR

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5' atttgactagcggaggctagaaggagagagatgggtgcgagagcgtcagtagtaagcgggggagaattagatcgcgatgggaaaaattcgggtaaggc
 1200
 3' taaaactgatcgcctccgatcttctctctctaccacgctctcgcagtcataattcgccccctctaatctagcgtacccttttttaagccaattccg
 LTR

5' caggggaaagaaaaatataataaacatatagtatgggcaagcaggagctagaacgattcgcagttaatcctggcctgtagaaacatcagaaggct
 1300
 3' gtcccccttctttttatattttgtatatacataccggttcgctcctcgatcttgtaagcgtcaattaggaccggacaatctttgtagtctccga
 LTR

5' gtagacaaatactgggacagctacaaccatcccttcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatca
 1400
 3' catctgtttatgacctgtcgatggtgtaggaagtctgtcctagctctcttgaatctagtaatatattatgtcatcgtgggagataacacacgtagt
 LTR

5' aaggatagagataaaagacaccaaggaagctttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggccggccgctgat
 1500
 3' ttctatctctatcttctgtggttccctcgaaatctgttctatctccttctcgtttcttctcattctggtggcgtgctcgttcgccggccggccgacta
 LTR

5' cttcagacctggaggaggagatagaggacaattggagaagtgaattatataataataaagtagtaaaaattgaaccattaggagtagcaccaccaag
 1600
 3' gaagtctggacctcctcctctataactcctgtaacctctcacttaatatattatattcatcatttttaacttggtaatcctcatcgtgggtggttc
 LTR HIV RRE

5' gcaaagagaagagtggcagagagaaaaagagcagtggaataggagctttgttccttgggttcttgggagcagcaggaagcactatgggagcagcgt
 1700
 3' cgtttctctcaccacgtctctcttttctcgtcacccttatcctcgaacaaggaaccaagaaccctcgtcgtcctcgtgataaccgcgctcgca
 HIV RRE

5' caatgacgctgacggtacaggccagacaattatgtctggtatagtcgagcagcagaacaatttgctgagggctattgaggcgcaacagcatctgttgca
 1800
 3' gttactgagactgccatgtccggtctgtaataacagaccatcacgctcgtcgtcttggtaaacgactcccgataactccgctgtgctgtagacaacgt
 HIV RRE

5' actcacagtctggggcatcaagcagctccaggcaagaatcctggctgtgaaagatacctaaaggatcaacagctcctggggatttggggtgctctgga
 1900
 3' tgaggtgcagaccctgtagttcgtcgaggtccgttcttaggaccgacaccttctatggatttctagttgctgaggaccctaaacccaacgagacct
 HIV RRE

5' aaactcatttgcaccactgctgtgccttggaaatgctagttggagtaataatctctggaacagatttggaaatcacacgacctggatggagtgggacagag
 2000
 3' tttagtaaacggtggtgacgacaggaaccttacgatcaacctcattattagagacctgtctaaaccttagtgtgctggacctacctcacctgtctc
 HIV RRE

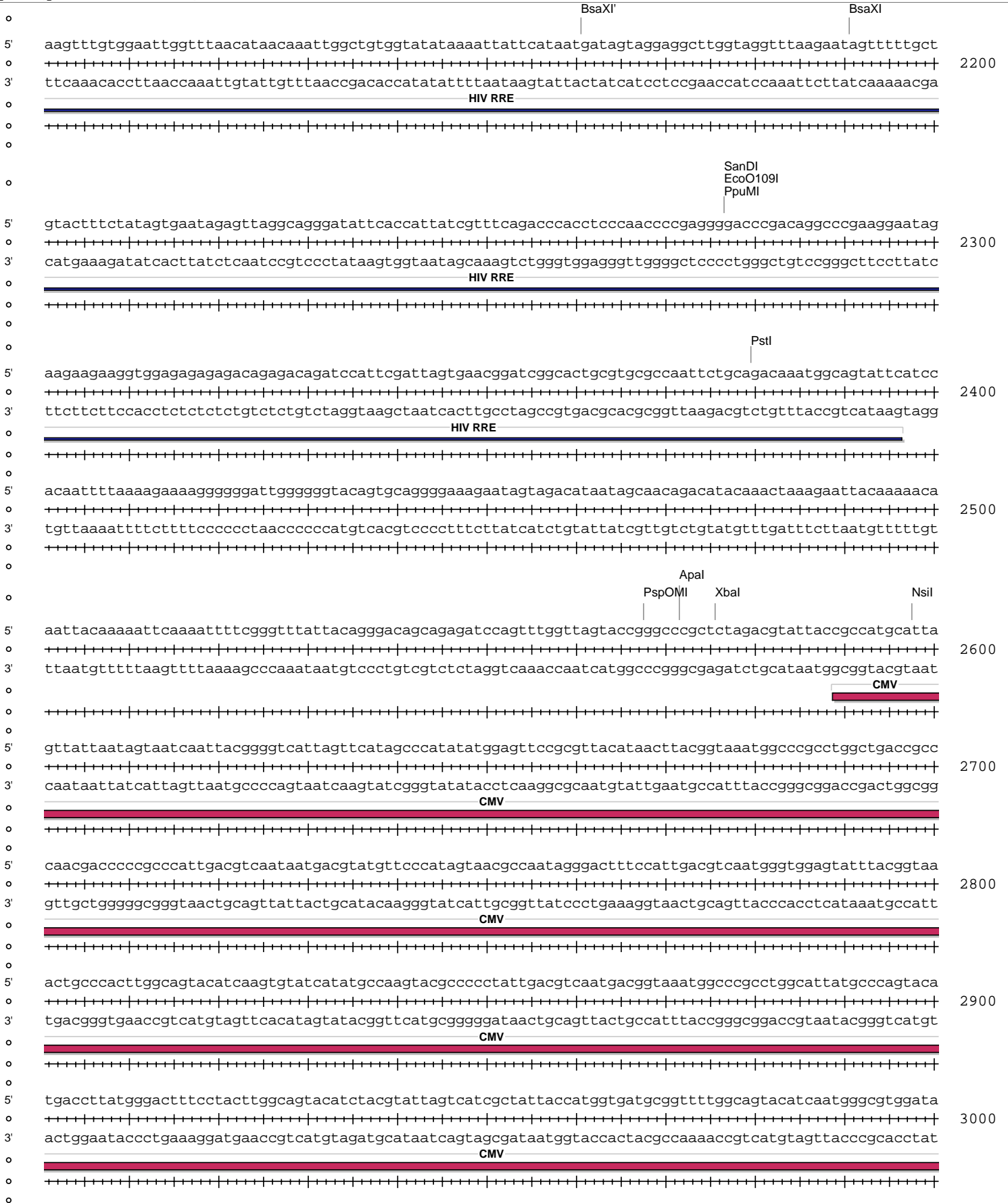
5' aaattaacaattacacaagcttaatacactccttaattgaagaatcgaaaaccagcaagaaagaatgaacaagaattattggaattagataaatgggc
 2100
 3' ttaattgttaagtgttcgaattatgtgaggaattaacttcttagcgttttggctgcttcttcttacttgttcttaataaccttaacttatttaccg
 HIV RRE

SapI

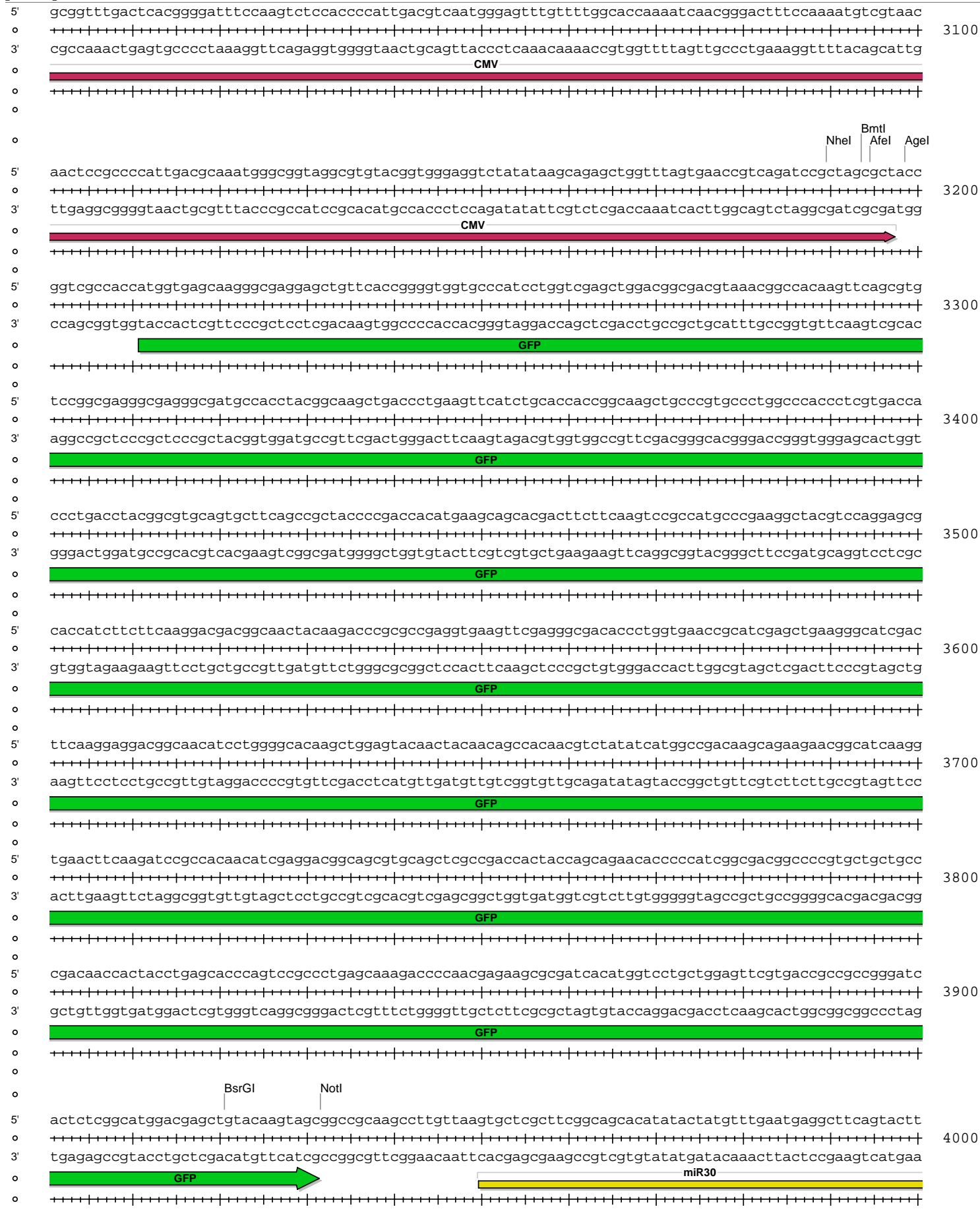
FseI

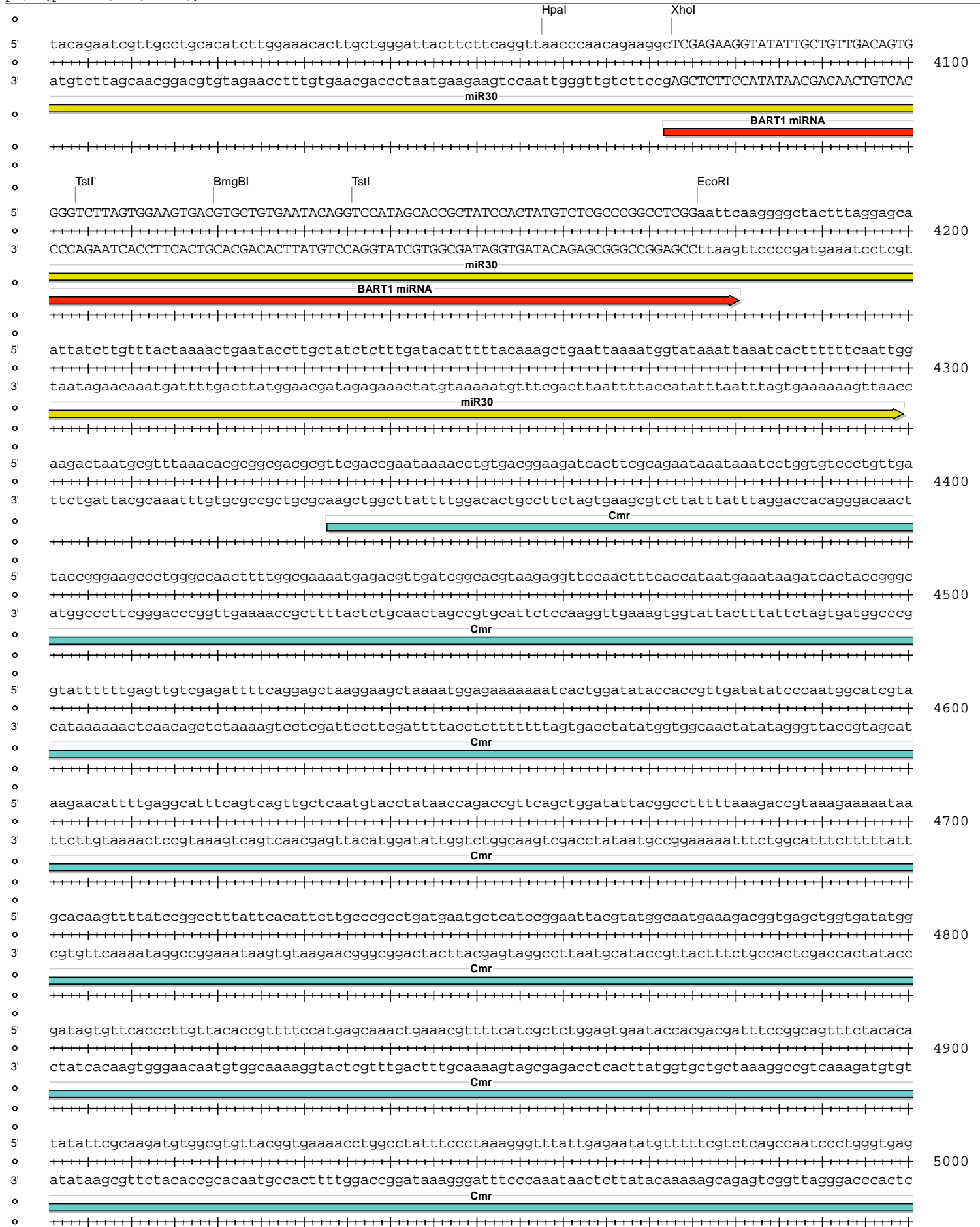
EcoNI

BbvCI



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