

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,Psil,PspXI,Psrl,Psrl',RsrII,SbfI,SexAI,Sfil,SgrAI,SmaI,SphI,SrfI,StuI,Swal,TstI,TstI',Tth111I,XcmI,XmaI
Acc65I	1	6223
AfeI	1	3195
AgeI	1	3199
AhdI	1	7688
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	6219
DrdI	1	6903
EcoNI	1	1513
EcoO109I	1	2277
EcoRI	1	4183
FseI	1	1491
FspI	1	7910
HpaI	1	4058
KaI	1	980
KpnI	1	6227
MscI	1	5034
NarI	1	981
NheI	1	3190
NotI	1	3932
NsiI	1	2598
PacI	1	5399
PciI	1	5375
PpuMI	1	2277
PspOMI	1	2568
PstI	1	2380
SacII	1	6000
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)

SgrDI

5' gtcgacggatcgggagatctcccgatcccctatggtgcactctcagtacaatctgctctgatgccgcatagttaagccagtatctgctccctgcttgtgt
 100
 3' cagctgcctagccctctagagggctaggggataccacgtgagagtcattgtagacgagactacggcgtatcaattcgggtcatagacgagggacgaacaca
 +

5' gttggaggtcgctgagtagtgcgcgagcaaaatctaagctacaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttaggggttaggcgttt
 200
 3' caacctccagcgactcatcacgcgctcgttttaaattcgatggtgttccgttccgaactggctgtaacgtacttcttagacgaatccaatccgcaaaa
 +

Spel

5' gcgctgcttcgogatgtacgggcccagatatacgcgcttgacattgattattgactagttattaatagtaatacaattacgggggtcattagttcatagcccat
 300
 3' cgcgacgaagcgtacatgcccggctctatatgcgcaactgtaactaataactgatcaataattatcattagttaatgcccagtaatacaagtatcgggta
 +

5' atatggagttccgcttacataaacttacggtaaatggcccgcctggctgaccgcccacgacccccgccattgacgtcaataatgacgtatgttcccat
 400
 3' tatacctcaaggcgcaatgtattgaatgccatttacggggcggaccgactggcgggtgctggggcgggtaactgcagttattactgcatacaagggt
 +

5' agtaacgccaatagggactttccattgacgtcaatgggtggagatattacggtaaaactgcccaacttggcagtacatcaagtgtatcatatgccaaagtacg
 500
 3' tcatgcggttatccctgaaaggtaactgcagttaccacactcataaatgccattgacgggtgaaccgtcatgtagttcacatagatacggttcatgc
 +

5' cccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtacatgacctatgggactttcctacttggcagtacatctacgtattag
 600
 3' gggggataactgcagttactgccatttacggggcggaccgtaatacgggtcatgtactggaataccctgaaaggatgaaccgtcatgtagatgcataatc
 +

5' tcatcgctattaccatgggtgatgcggttttggcagtacatcaatgggcgtggatagcgggttgactcacggggatttccaagtctccacccattgacgt
 700
 3' agtagcgataatggtaccactacgcaaaaaccgtcatgtagttaccgcacactatcgccaaactgagtgcccctaaagggttcagaggtgggtaactgca
 +

5' caatgggagttgttttggcaccaaaatcaacgggactttccaaaatgtcgtacaactccgccccattgacgcaaatggcggttaggcgtgtacgggtg
 800
 3' gttaccctcaaacaaaaccgtggttttagttgcctgaaagggttttacagcattggtgagggcgggtaactgcgtttaccggccatccgcacatgccacc
 +

5' gaggtctatagaccagatctgagcctgggagctctctggctaactagggaaaccactgcttaagcctcaataaagcttgcttgagtgctcaagtagtg
 900
 3' ctccagatatctggctagactcggaccctcgagagaccgattgatccctgggtgacgaattcggagttatttgaacggaactcacgaagttcatcac
 +

LTR

KasI
 NarI
 SfoI
 BbeI

5' tgtgccgctctgttgtgtgactctggtaaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgggcggccgaacagggacttgaa
 1000
 3' acacgggcagacaacacactgagaccattgatctctagggagctctgggaaaaatcagtcacaccttttagagatcgtcaccgcgggcttgctccctgaactt
 +

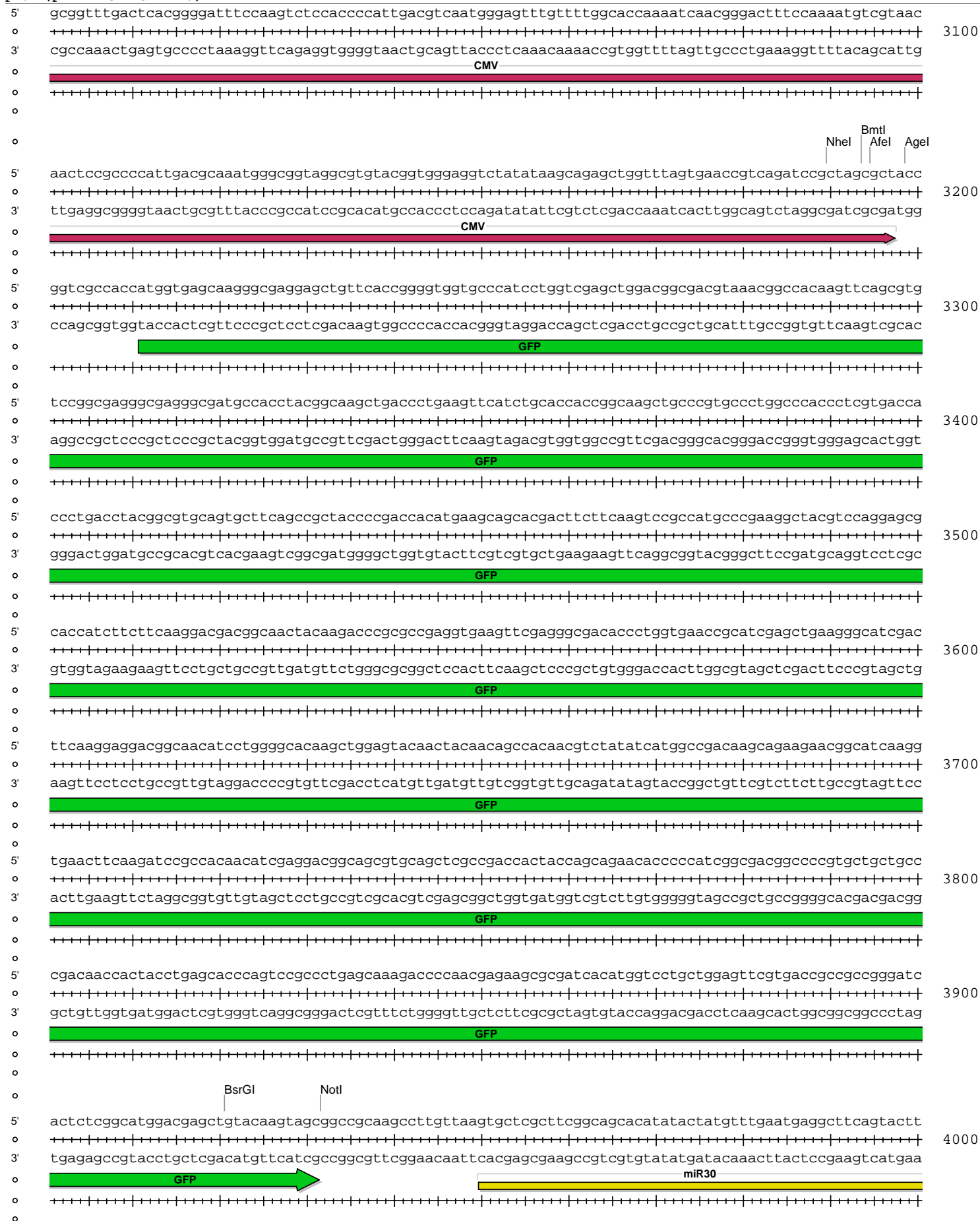
LTR

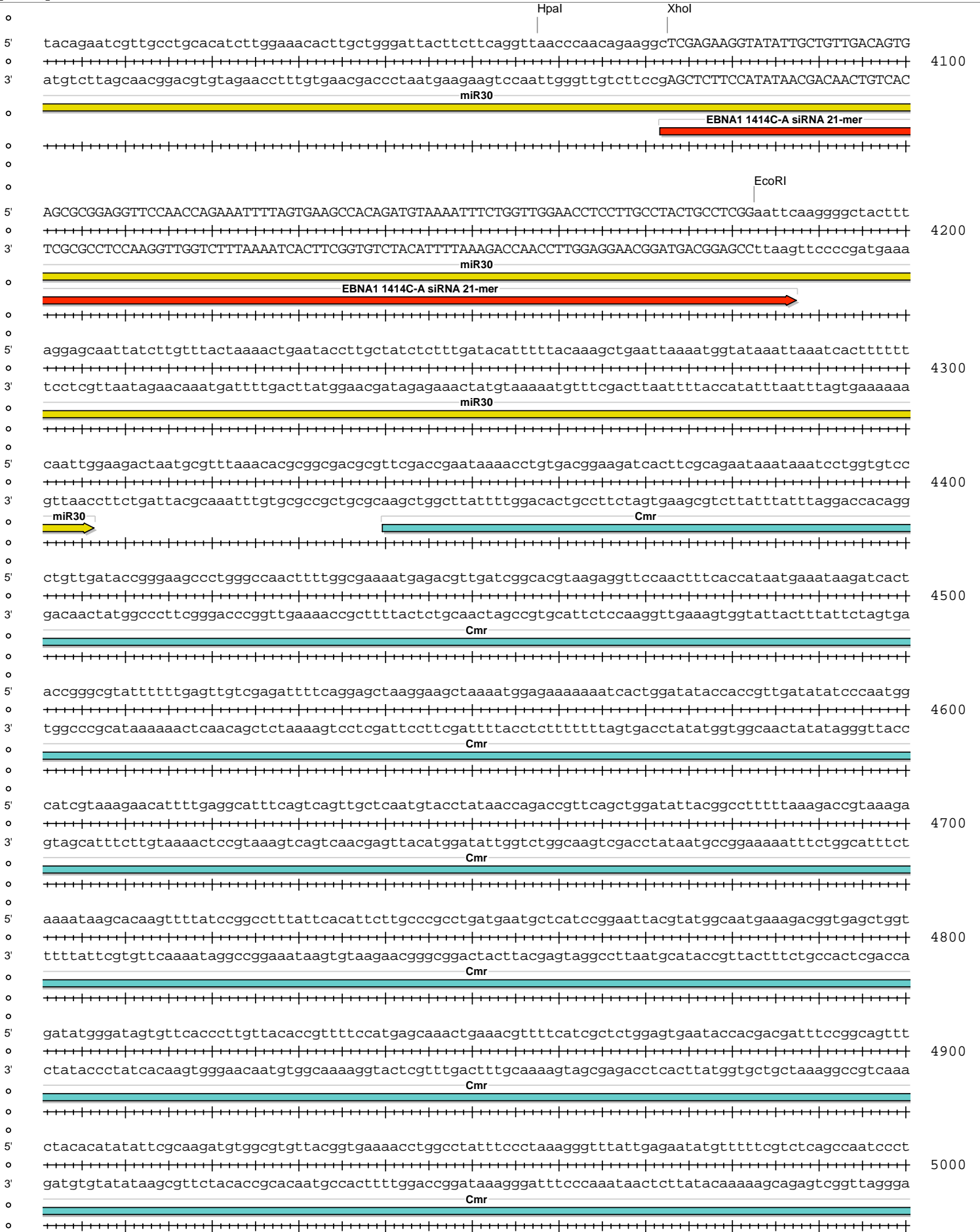
BssHII

5' agcgaagggaaccagaggagctctctcgacgcaggactcggcttgcctgaagcgcgcacggcaagaggcgaggggcggcactggtagtagcgcacaaa
 1100
 3' tcgctttcccttggctcctcagagagactgcgctcctgagccgaacgacttcgcgcgctgcccgttctccgctccccgcccgtgaccactcatgcggtttt
 +

LTR

p201 (pPRIME-CMV-GFP-FF3)





MscI

5' ggggtgagtttcaccagttttgatttaaacgtggccaatatggacaacttcttcgccccggtttccaccatgggcaaataattatacgaaggcgacaaggt 5100
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' cccactcaaagtggtcaaaactaaatttgcaccgggtatacctgttgaagaagcgggggcaaaagtggtaccggtttataatatgcggtcccgctgttcca

Cmr

5' gctgatgccgctggcgattcaggttcatcatgcccgtttgtgatggcttccatgctcggcagaatgcttaataatgaaacagtagctgcatgagtgccag 5200
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' cgactacggcgaccgctaagtccaagtagtacggcaaacactaccgaaggtacagccgctctacgaattacttaatggtgcatgacgctactcaccgctc

Cmr

5' ggccggggcgtaatttttttaaggcagttattggtgcccttaaacgcctggttgctacgcctgaataagtataataagcggatgaaaggcagaaattcgg 5300
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' ccgccccgcatataaaaaattccgctcaataaccacgggaatttgcggaccaacagatgaggacttattcactattatcgcctactaccgctcttaagcc

Cmr

PciI

Pacl

5' atctcgaccgctttggcggtggctccctgccacgcccctcgaacagaagctgatctccgaagaggatctgacatggttttaaacctcgacttaatta 5400
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' tagagctggcgcaaaccgccaccgaggagcgggtgcccggaggcttctcctcgactagaggcttctcctagactgtacacaaatttgagctgaattaat

Cmr

5' agtcgagggctcgacggatcgataagctcgcttcacgagatcatgtttaagggttccggttccactaggtacaattcgatatcaagcttatcgataatca 5500
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' tcagctcccagctgccatagctattcgagcgaagtgccttagtacaattccaaggccaaggtgatccatgtaagctatagttcgaatagctattagtt

5' acctctggattacaaaatttgtgaaagattgactggatattcttaactatggtgctccttttacgctatgtggatagcgtgctttaatgcctttgtatcat 5600
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' tggagacctaatgttttaaacactttctaactgaccataagaattgatacaacgaggaaaatgcgatcacctatgagcgaatttacggaacatagta

WRE

5' gctattgcttcccgtatggctttcattttctcctcctgtataaatcctgggtgctgctctttatgaggagtgtggcccgtgtcaggcaacgtggcg 5700
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' cgataacgaagggcataaccgaaagtaaaagaggaggaacatattaggaccaacgacagagaaatactcctcaacaccgggcaacagtcggtgacccgc

WRE

5' tgggtgactgctgtttgctgacgcaacccccactgggtggggcatgcccaccactgtcagctcctttccgggactttcgctttcccctccctattgc 5800
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' accacacgtgacacaaaacgactgcgttgggggtgaccaaccccgtaacgggtggtagcagtcgaggaaagccctgaaagcgaagggggaggataacg

WRE

5' cacggcggaaactcatcgccgctgccttgcccgtgctggacaggggctcggctgttgggcaactgacaattccgtgggtgtgtcggggaaatcatcgtcc 5900
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' gtgccgcttgagtagcggcgagcgaacgggcgacgacctgtcccagccgacaacccgtgactgtaaggcaccacaacagccccttagtagcagg

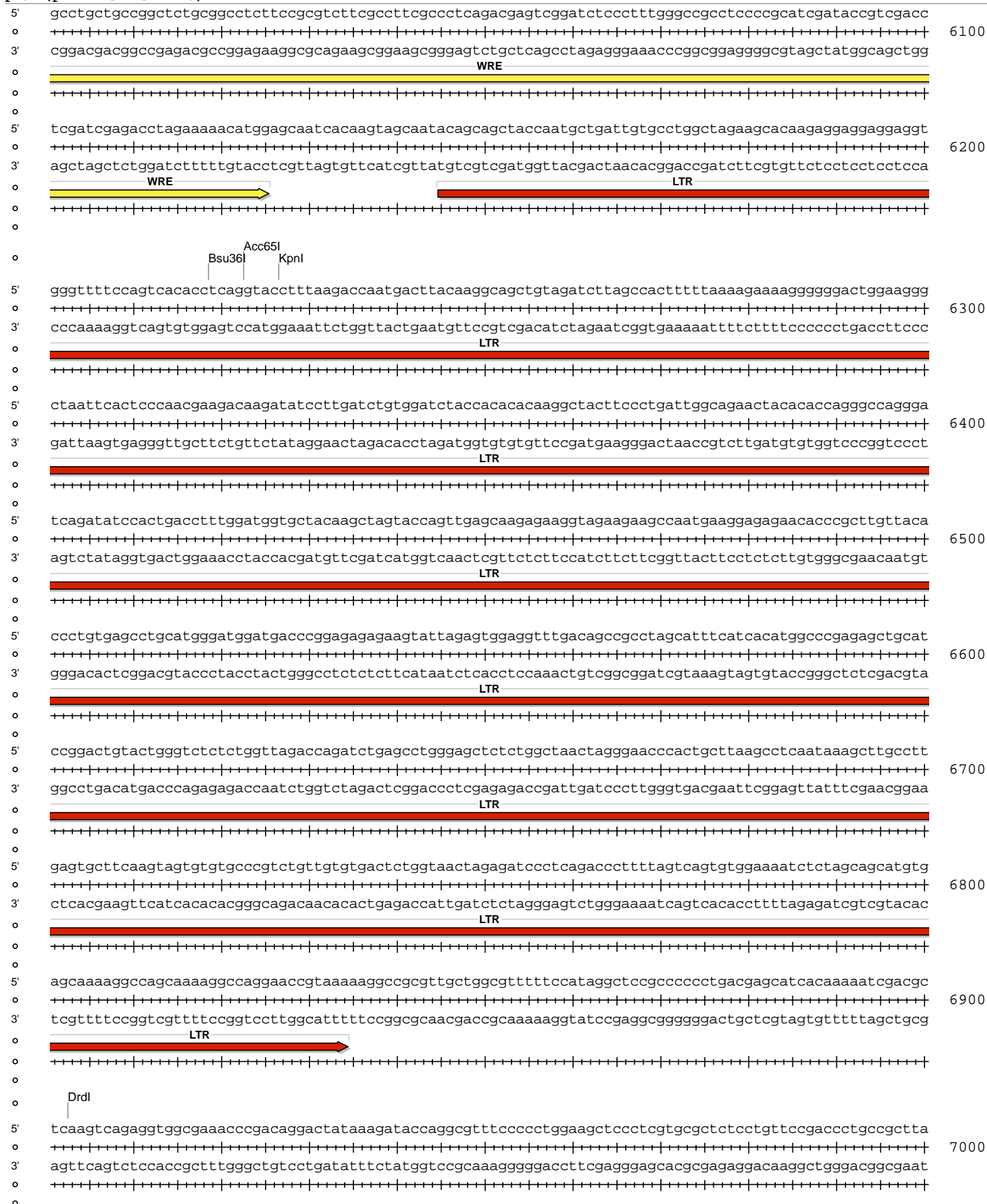
WRE

SacII

5' tttccttggtgctcgctgtgttgccacctggatttctgcggggagctccttctgctacgtcccttcggccctcaatccagcggaccttcttcccgcg 6000
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3' aaaggaaaccgacgagcggacacaaacggtggacctaaagacgcccctgcaggaagacgatgcagggaaagccgggagtaggtcgctggaaggaagggcgc

WRE

p201 (pPRIME-CMV-GFP-FF3)



p201 (pPRIME-CMV-GFP-FF3)

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5'   aaaactctcaaggatcttaccgctggtgagatccagttcgatgtaacccactcgtgcacccaactgatcttcagcatcttttactttcaccagcgtttct
o   ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
3'   ttttgagagttcctagaatggcgacaactctaggtcaagctacattgggtgagcacgtgggtgactagaagtcgtagaaaatgaaagtggcgcgaaaga
o   ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
o
5'   gggtgagcaaaaacaggaaggcaaaatgccgcaaaaagggaataagggcgacacggaaatgtgaatactcatactcttcctttttcaatattattgaa
o   ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
3'   ccactcgtttttgtccttccgttttacggcgtttttcccttattcccgtgtgcctttacaacttatgagtatgagaaggaaaaagttataataactt
o   ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
o
5'   gcatttatcagggttattgtctcatgagcggatacatattgaaatgtatttagaaaaataaacaataggggtccgcgcacatttccccgaaaagtgcc
o   ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
3'   cgtaaatagtcccaataacagagtactcgcctatgtataaacttacataaatctttttatttgtttatcccgaaggcgcgtgtaaaggggcttttcacgg
o   ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
o
5'   acctgac
o   ++++++
3'   tggactg
o   ++++++
o

```