

pMSCVneo-GFP-miR BHRF1-2

Absent Sites	0	AarI, AbsI, AjuI, AjuI', AlfI, AlfI', ApaI, AsiSI, BarI, BarI', BbsI, BclI, BpII, BpII', BsaBI, BsiWI, BstBI, BstXI, BstZ17I, CspCI, CspCI', DraIII, FspAI, HpaI, MauBI, MluI, MreI, NruI, PacI, PmeI, PmlI, PshAI, PspOMI, PspXI, PstI, PstI', SacII, SanDI, SbfI, SfiI, SgrDI, SnaBI, SrfI, SwaI, XcmI, XhoI
AccI	1	3722
AflIII	1	4811
Arsl	1	1732
Arsl'	1	1700
AvrII	1	2357
BamHI	1	3715
BglII	1	1411
BlnI	1	2669
BsaAI	1	3350
BsmI	1	2827
BspEI	1	2815
BstEII	1	1089
Clal	1	3742
EcoRI	1	2376
FseI	1	2221
HincII	1	3723
HindIII	1	3735
MfeI	1	2346
NdeI	1	6875
NotI	1	2158
NsiI	1	2181
PciI	1	4811
PfiMI	1	2199
PsiI	1	2184
RsrII	1	3562
Sall	1	3721
Scal	1	6184
SexAI	1	1217
SgrAI	1	7247
StuI	1	2690

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5' TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGC AAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGG
 100
 3' ACTTTCTGGGGTGGACATCCAAACCGTTCGATCGAATTCATTGCGGTA AACCGTTCCGTACCTTTTATGTATTGACTCTTATCTCTTCAAGTCTAGTTCC
 5' pCMV LTR

5' TTAGGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCG
 200
 3' AATCCTTGTCTCTCTGTGCTTATACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCCAGTCTTGTCTACCAGGGGTCTACGC
 5' pCMV LTR

5' GTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTC
 300
 3' CAGGGCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAG
 5' pCMV LTR

5' GCTTCTCGTCTCTGTTCGCGCCTTCTGCTCCCCGAGCTCAATAAAAAGAGCCACAAACCCCTCACTCGGCGCGCAGTCTCCGATAGACTGCGTCCCC
 400
 3' CGAAGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTAATTTCTCGGGTGTGGGGAGTGAGCCGCGCGGTGAGGAGGCTATCTGACGCAGCGGG
 5' pCMV LTR

5' GGGTACCCGTATTCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGACTCGCTGATCCTTGGGAGGGTCTCCTCAGATTGATTGACTGCCACCT
 500
 3' CCCATGGGCATAAGGGTTAATTTGCGGAGAACGACAAACGTAGGCTTAGCACCTGAGCGACTAGGAACCCCTCCAGAGGAGTCTAACTAACTGACGGGTGGA
 5' pCMV LTR

5' CGGGGTCTTTTCAATTTGGAGGTTCCACCGAGATTGGAGACCCCTGCCAGGGACCACCGACCCCCCGCGGGAGGTAAGCTGGCCAGCGGTCTGTTTCG
 600
 3' GCCCCAGAAAGTAAACCTCCAAGGTGGCTCTAAACCTCTGGGGACGGGTCCCTGGTGGCTGGGGGGCGGCCCTCCATTTCGACCGGTTCGCCAGCAAAGC
 5' pCMV LTR Pack Signal

5' TGTCTGTCTCTGTCTTTGTGCGTGTTTGTGCCGCATCTAATGTTTGC GCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGG
 700
 3' ACAGACAGAGACAGAAACACGCACAAACACGGCCGTAGATTACAAACCGGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCTGGGCACC
 Pack Signal

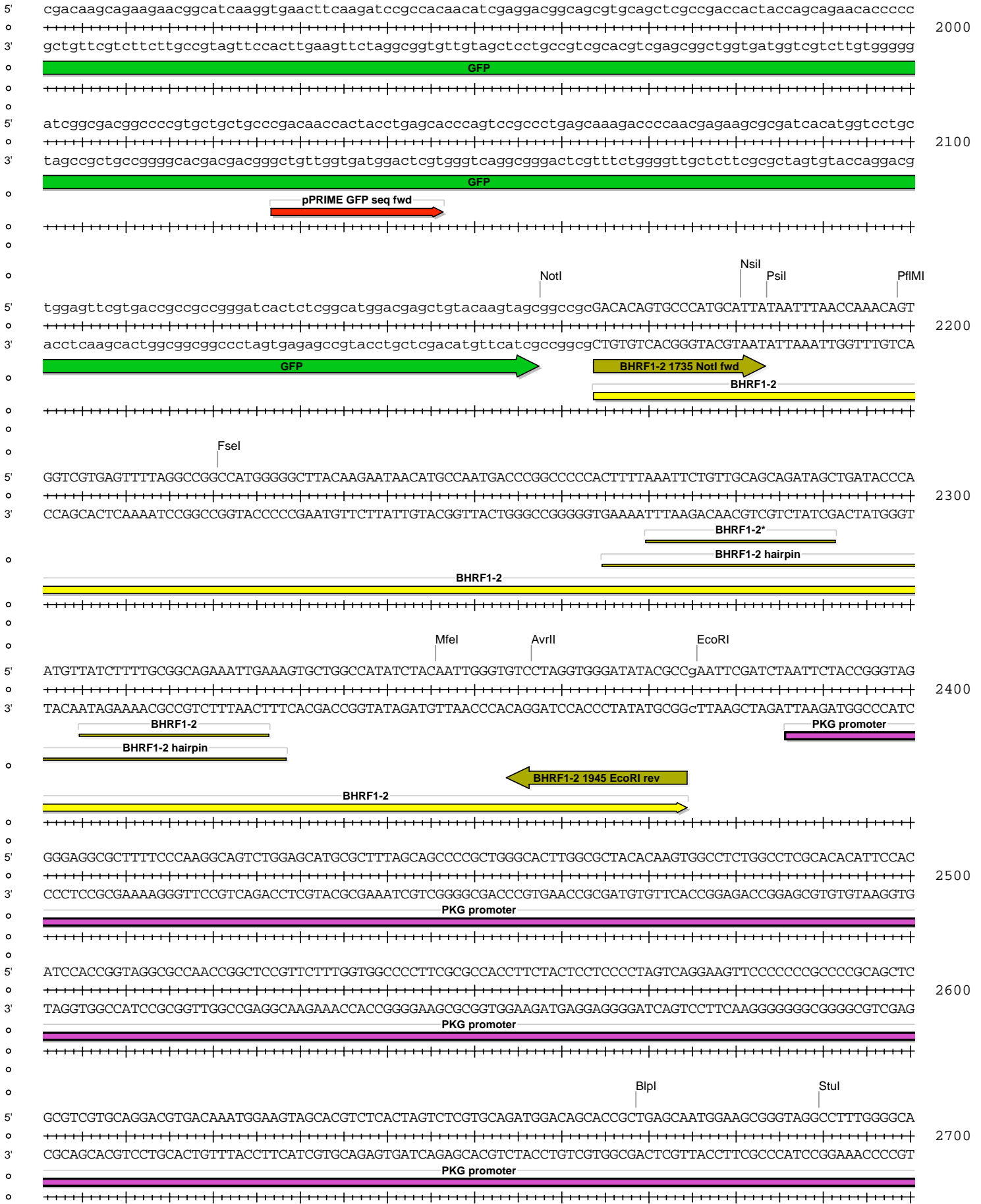
5' TGGAATGACGAGTCTGAACACCCGCGCAACCCCTGGGAGACGTCCCAGGGACTTTGGGGCCGTTTGTGGCCCGACCTGAGGAAGGGAGTCGATG
 800
 3' ACCTTGACTGCTCAAGACTTGTGGGCCGGCGTTGGGACCCTCTGCAGGGTCCCTGAAACCCCGGCAAAAACACCGGGCTGGACTCCTTCCTCAGCTAC
 Pack Signal

5' TGGAATCCGACCCCGTCAGGATATGTGGTCTGGTAGGAGACGAGAACC TAAAACAGTTCGCCCTCCGTCTGAATTTTGTCTTTCGGTTTGAACCGAA
 900
 3' ACCTTAGGCTGGGGCAGTCTTATACACCAAGACCATCCTCTGCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGGCTT
 Pack Signal

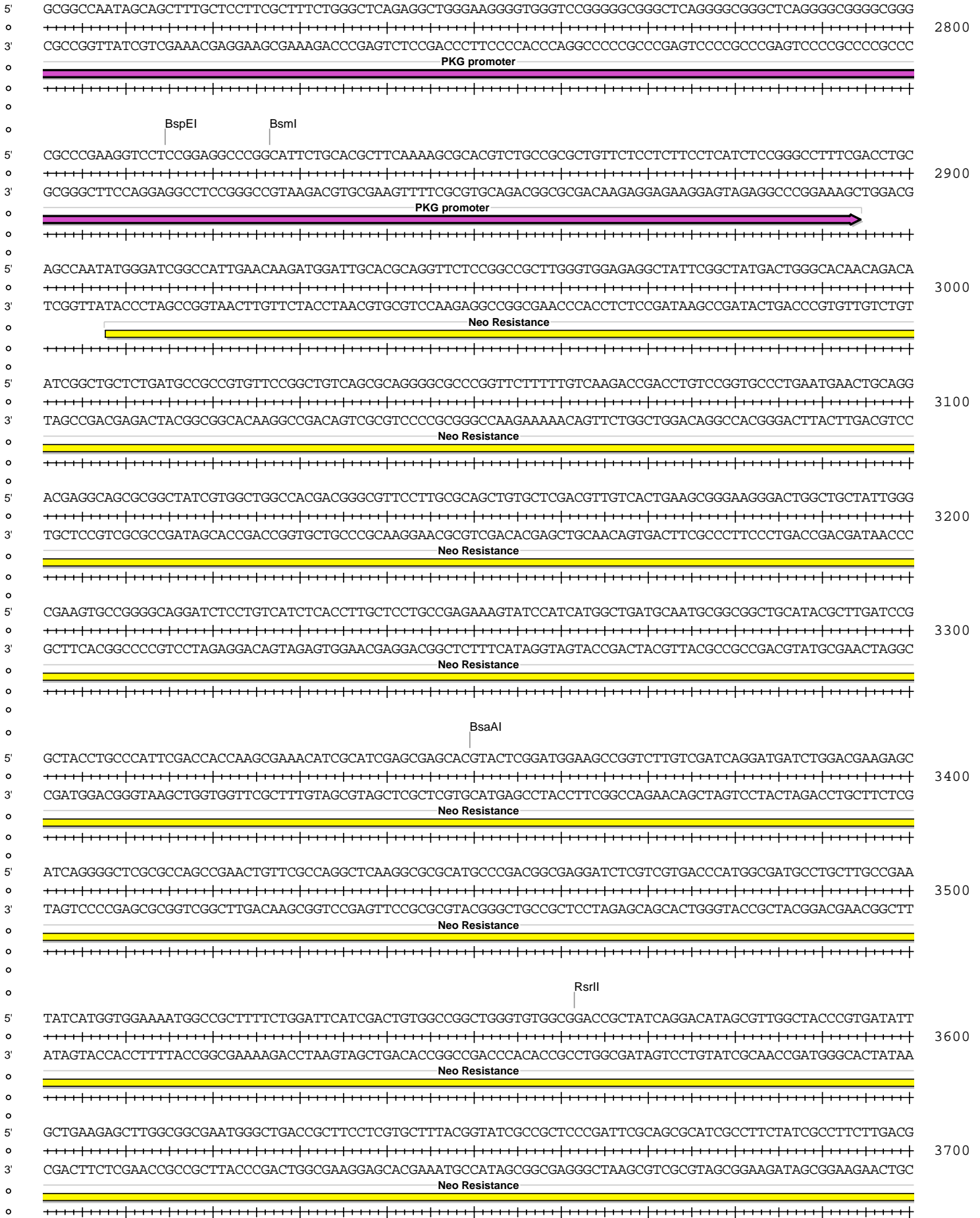
5' GCCGCGCTCTGTCTGCTGCAGCGCTGCAGCATCGTTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTTAC
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 3' CGGCGCGCAGAACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTTTAATCCCGGTCTGACAATG
 Pack Signal

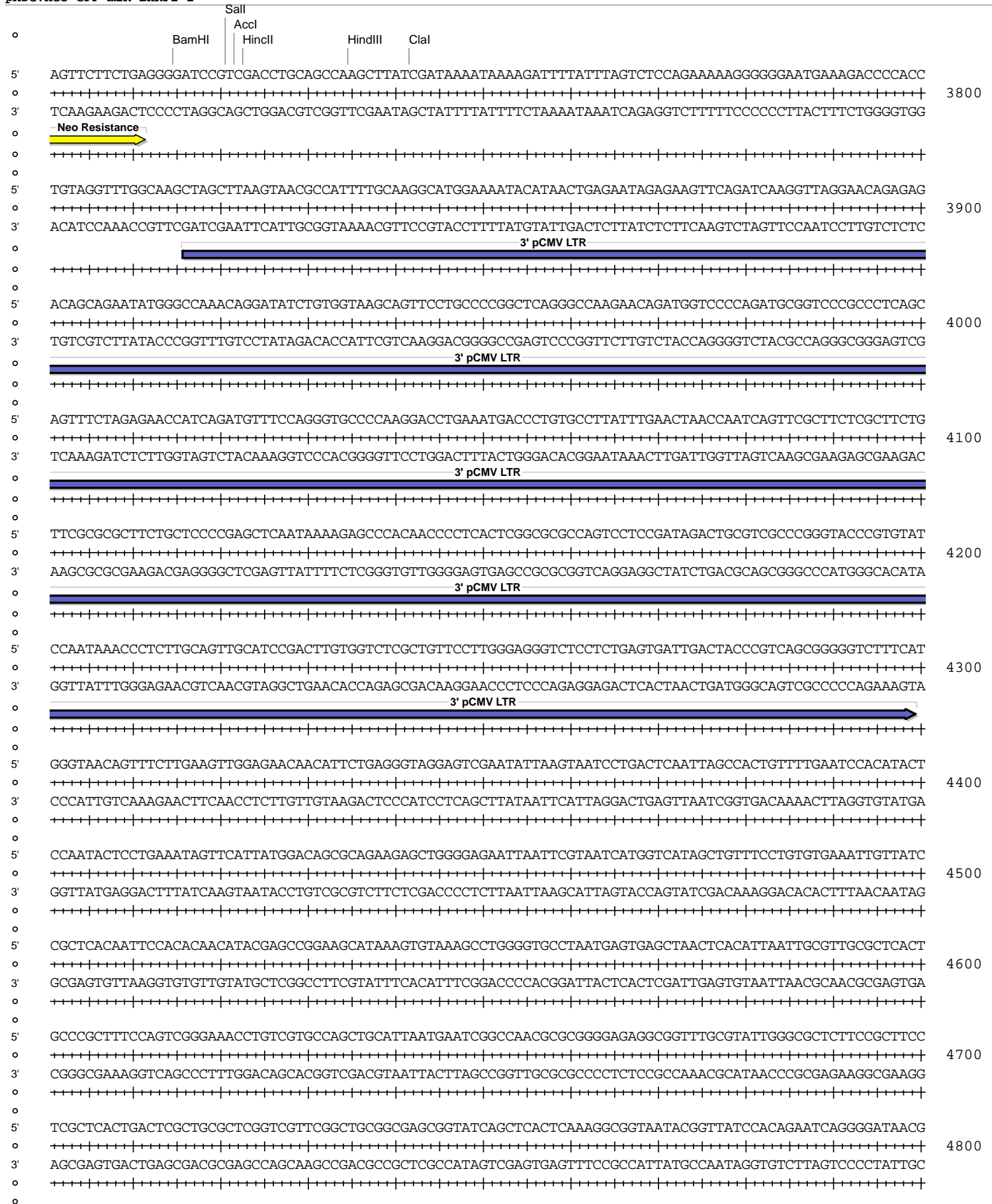


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Pcil
AflIII

5' CAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCA 4900
+
3' GTCCTTTCTTGTACACTCGTTTTCCGGTCTGTTTTCCGGTCTTGGCATTTTTCCGGCGCAACGACCCGAAAAAGGTATCCGAGGCGGGGGACTGCTCGT
+
5' TCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTTCCCCCTGGAAGCTCCCTCGTGCCTCTCCTGTT 5000
+
3' AGTGTTTTTAGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCTGATATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACGCGAGAGGACAA
+
5' CCGACCCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGG 5100
+
3' GGCTGGGACGCGAATGGCCTATGGACAGGCGAAAGAGGGAAGCCCTTCGCACCGCGAAAGAGTATCGAGTGGCAGATCCATAGAGTCAAGCCACATCC
+
5' TCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGTAGTCCAACCCGGTAAGACA 5200
+
3' AGCAAGCGAGGTTTCGACCCGACACACGTGCTTGGGGGCAAGTCCGGCTGGCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGT
+
5' CGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGC 5300
+
3' GCTGAATAGCGGTGACCGTCTGCGTGACCATTTGCTTAATCGTCTCGCTCCATACATCCGCCACGATGCTCAAGAATTCACCACCGGATTGATGCCG
+
5' TACTACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAACCACCGCTG 5400
+
3' ATGTGATCTTCTGTATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTGTGGTGGCGAC
+
5' GTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTG 5500
+
3' CATCGCCACCAAAAAACAACGTTTCGTCGTCTAATGCGCGCTTTTTTTTCTAGAGTTCTTCTAGGAACTAGAAAAGATGCCCCAGACTGCGAGTCA
+
5' GAACGAAAACCTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAATAAATGAAGTTTAAATCAATCTAA 5600
+
3' CTTGCTTTTGTAGTGAATCCCTAAAACAGTACTCTAATAGTTTTTCTTAGAAGTGGATCTAGGAAAATTAATTTTTACTTCAAATTTAGTTAGATT
+
5' AGTATATATAGATAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCCATCCATAGTTGCCTGAC 5700
+
3' TCATATATACTCATTGAACCCAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCTGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTG
+
Amp res
+
5' TCCCCGTCGTGATATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATC 5800
+
3' AGGGCAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGGTACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTAAATAG
+
Amp res
+
5' AGCAATAAACCCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCCCTCCATCCAGTCTATTAATTTGTTGCCGGAAGCTAGAGTA 5900
+
3' TCGTTATTTGGTCCGTCGGCTTCCCGCTCGCTCTTACCAGGACGTTGAAATAGGCGGAGGTAGGTGAGATAATTAACAACGGCCCTTCGATCTCAT
+
Amp res
+
5' AGTAGTTCGCCAGTTAATAGTTTGGCACAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTGACGCTCGTCTGGTATGGCTTCATTGAGTCCGGTT 6000
+
3' TCATCAAGCGGTCAATTATCAAACGCGTTGCAACAACGTTAACGATGTCCGTAGCACCACAGTGCAGCAGCAAACCATACCGAAGTAAGTTCGAGGCCAA
+
Amp res

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5' CCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGT
 6100
 3' GGGTTGCTAGTTCCGCTCAATGTACTAGGGGTACAACACGTTTTTTTCGCCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTCAACCGGCCTCA
 Amp res

5' GTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTC
 6200
 3' CAATAGTGAGTACCAATACCGTTCGTGACGTATTAAGAGAATGACAGTACGGTAGGCATTCTACGAAAAGACACTGACCACTCATGAGTTGGTTCAGTAAG
 Amp res

5' TGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGCGTCAATACGGGATAATACCGGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAA
 6300
 3' ACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCCGAGTTATGCCCTATTATGGCGCGGTGTATCGTCTTGAAATTTTACAGGAGTAGTAACCTT
 Amp res

5' AACGTTCTTCGGGGCGAAAACCTCAAGGATCTTACCGTGTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTAC
 6400
 3' TTGCAAGAAGCCCCGCTTTTGAGAGTTCTTAGAATGGCGACAACCTTAGGTCAAGCTACATTGGGTGAGCACGTGGGTTGACTAGAAGTCGTAGAAAATG
 Amp res

5' TTTCAACAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTT
 6500
 3' AAAGTGGTCGAAAGACCCACTCGTTTTTGTCCCTCCGTTTTACGGCGTTTTTCCCTTATTCCCGCTGTGCCCTTACAACCTATGAGTATGAGAAGGAA
 Amp res

5' TTTCAATATTATTGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAACAAATAGGGGTTCCGCGCACAT
 6600
 3' AAAGTTATAATAACTTCGTAAATAGTCCCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAACTTTTTATTGTTTATCCCCAAGGCGCGTGTA
 Amp res

5' TTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAAATAGCGTATCACGAGGCCCTTCGTCTCGCGCGTTT
 6700
 3' AAGGGGCTTTTACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTGTAATTGGATATTTTATCCGCATAGTGCTCCGGGAAAGCAGAGCGCGCAAA
 Amp res

5' CGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCCAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCG
 6800
 3' GCCACTACTGCCACTTTTGGAGACTGTGTACGTGAGGGCCTCTGCCAGTGTGCAACAGACATTCGCTACGGCCCTCGTCTGTTGCGGCAGTCCCGCGC
 Amp res

5' TCAGCGGTGTGGCGGGTGTGGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAGAT
 6900
 3' AGTCGCCCAACCGCCACAGCCCGACCGAATTGATACGCCGTAGTCTCGTCTAACATGACTCTCACGTGGTATACGCCACACTTTATGGCGTGTCTA
 Amp res

5' GCGTAAGGAGAAAATACCGCATCAGGCGCCATTCCGCCATTCAAGTGTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCAGCT
 7000
 3' CGCATTCCTCTTTTATGGCGTAGTCCGCGGTAAGCGGTAAGTCCGACGCGTGTGACAACTTCCCGTAGCCACGCCCGGAGAAGCGATAATGCGGTGCA
 Amp res

5' GGCGAAAGGGGATGTGCTGCAAGGCGATTAAAGTTGGGTAACGCCAGGGTTTTCCAGTACGACGTTGTAACCGACGGCGCAAGGAATGGTGCATGCA
 7100
 3' CCGCTTCCCGCTACACGACGTTCCGCTAATCAACCCATGCGGTCCCAAAGGGTCAGTGTGCAACATTTTGTGCGCGTTCCTTACCACGTACGT
 Amp res

Ndel

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5'  AGGAGATGGCGCCCAACAGTCCCCCGGCCACGGGGCCTGCCACCATACCCACGCCGAAACAAGCGCTCATGAGCCC GAAGTGGCGAGCCC GATCTTCCCC
o  |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
3'  TCCTCTACCGCGGGTTGT CAGGGGGCCGGTGCCCCGGACGGTGGTATGGGTGCGGCTTTGTTCGCGAGTACTCGGGCTTCACCGCTCGGGCTAGAAGGGG
o  |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
o
o
o
SgrAI
|
5'  ATCGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGCGATTAGTCCAATTTGTT
o  |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
3'  TAGCCACTACAGCCGCTATATCCGCGGTCGTTGGCGTGGACACCGCGGCCACTACGGCCGGTGCTACGCAGGCCGCATCTCCGCTAATCAGGTTAAACAA
o  |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5'  AAAGACAGGATATCAGTGGTCCAGGCTCTAGTTT TGACTCAACAATATCACCAGCTGAAGCCTATAGAGTACGAGCCATAGATAAAAATAAAAGATTTTAT
o  |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
3'  TTTCTGTCCTATAGTCACCAGGTCGAGATCAAAACTGAGTTGTTATAGTGGTCTGACTTCGGATATCTCATGCTCGGTATCTATTTTATTTTCTAAAATA
o  |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5'  TTAGTCTCCAGAAAAGGGGGGAA
o  |-----|-----|-----|-----|
3'  AATCAGAGGTC TTTTCCCCCTT
o  |-----|-----|-----|
o
o

```

7200

7300

7400

7424