

pMSCV-neo-GFP-miR 146a

Absent Sites	0	AarI,Abst,Ajul,Ajul',AlfI,AlfI',ApaI,AsiSI,AvrII,BarI,BarI',BclI,BsiWI,BstBI,BstXI,BstZ17I,CspCI,CspCI',DraIII,FseI,FspAI,HpaI,MauBI,MfeI,MluI,MreI,NruI,NsiI,Pacl,PfIMI,PmeI,PmlI,PshAI,PspOMI,Psri,Psri',SaclI,SanDI,SbfI,SgrDI,SnaBI,SrfI,Swal,XcmI
AccI	1	3972
AfIII	1	5061
Arsl	1	1732
Arsl'	1	1700
BamHI	1	3965
BbsI	1	2496
BglIII	1	1411
BsaAI	1	3600
BsaBI	1	2335
BsmI	1	3077
BspEI	1	3065
BstEII	1	1089
ClaI	1	3992
HincII	1	3973
HindIII	1	3985
NdeI	1	7125
NotI	1	2158
PciI	1	5061
PsiI	1	2191
PspXI	1	2616
RsrII	1	3812
Sall	1	3971
Scal	1	6434
SfiI	1	2166
SgrAI	1	7497
XhoI	1	2616

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

5' TTAGGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCG
 200
 3' AATCCTTGTCTCTCTGTGCTTATACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCCCTGTTCTGTCTACCAGGGGTCTACGC
 5' pCMV LTR

5' GTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTC
 300
 3' CAGGGCCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAG
 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' TGTCTGTCTCTGTCTTTGTGCGTGTGGTGGCCGCATCTAATGTTTGCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGG
 700
 3' ACAGACAGAGACAGAAACACGCACAAACACGGCCGTAGATTACAAACCGGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCTGGGCACC
 Pack Signal

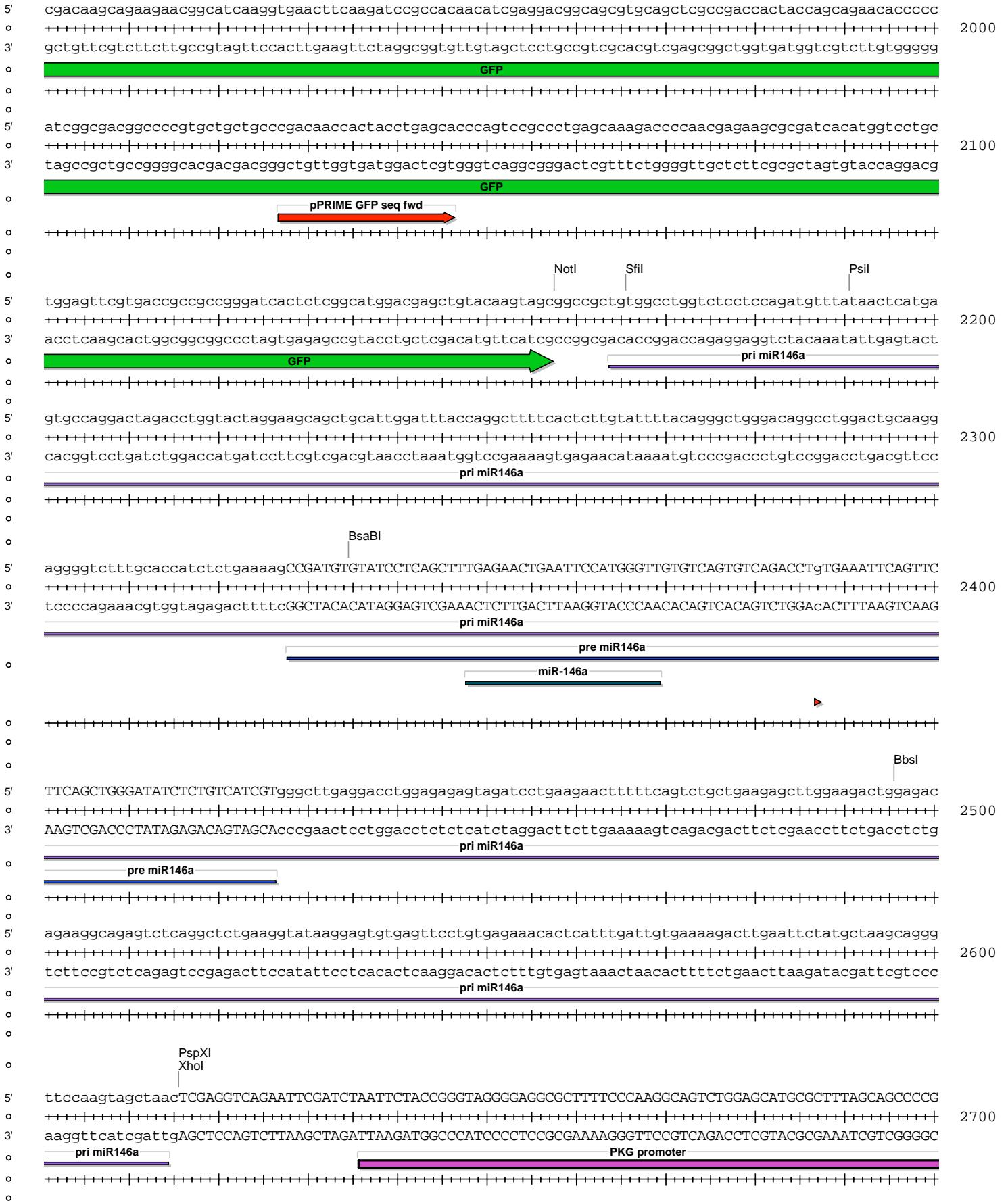
5' TGGAATGACGAGTCTGAACACCCGCGCAACCCCTGGGAGACGTCCCAGGGACTTTGGGGCCGTTTGTGGCCCGACCTGAGGAAGGGAGTTCGATG
 800
 3' ACCTTGACTGCTCAAGACTTGTGGGCCGGCGTTGGGACCCTCTGCAGGGTCCCTGAAACCCCGGCAAAAACACCGGGCTGGACTCCTTCCTCAGCTAC
 Pack Signal

5' TGGAATCCGACCCCGTCAAGATATGTGGTCTGGTAGGAGACGAGAACC TAAAACAGTTCGCCCTCCGTCTGAATTTTGGCTTTCGGTTTGAACCGAA
 900
 3' ACCTTAGGCTGGGGCAGTCTTATACACCAAGACCATCCTCTGCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGGCTT
 Pack Signal

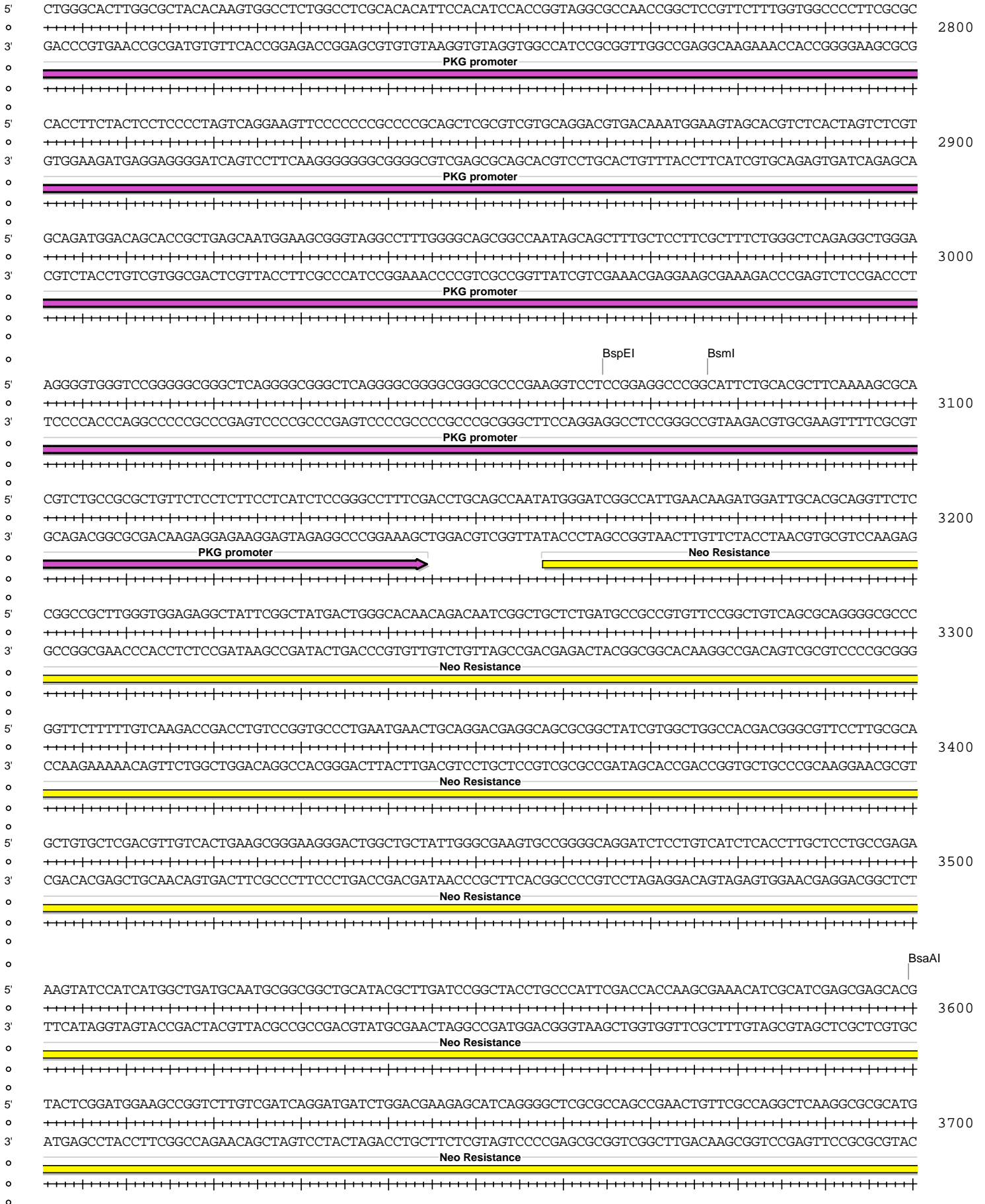
5' GCCGCGCTCTGTCTGCTGCAGCGCTGCAGCATCGTTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTTAC
 1000
 3' CGGCGCGCAGAACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTTTAATCCCGGTCTGACAATG
 Pack Signal



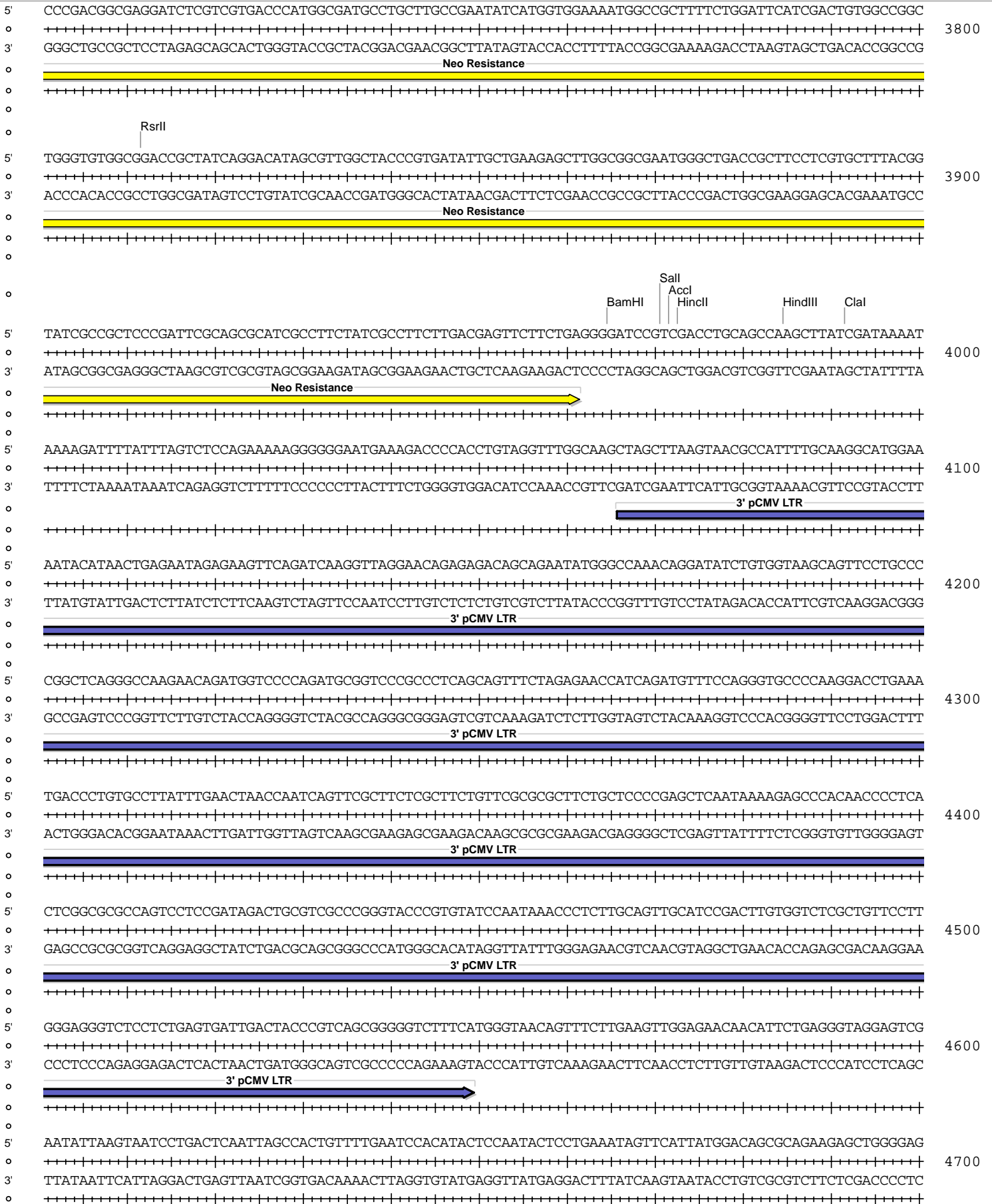
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5' AATTAATTCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACAAACATACGAGCCGGAAGCATAAAGTGTAAAGCC
o ++++++
3' TTAATTAAGCATTAGTACCAGTATCGACAAAGGACACACTTTAACAATAGGCGAGTGTAAAGGTGTGTTGTATGCTCGGCCTTCGTATTTACATTTTCGG
o ++++++
o
5' TGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCG
o ++++++
3' ACCCCACGGATTACTCACTCGATTGAGTGAATTAACGCAACGCGAGTGACGGGCGAAAGGTGAGCCCTTTGGACAGCACGGTCGACGTAATTACTTAGC
o ++++++
o
5' GCCAACCGCGGGGAGAGGCGGTTTTCGCTATTGGGCGCTCTTCCGCTTCCCTCGCTCACTGACTCGCTGCGCTCGGTTCGTTCCGCTGCGGCGAGCGGTATC
o ++++++
3' CGGTTGCGCGCCCTCTCCGCAAAACGCATAACCCGCGAGAAGGCGAAGGAGCGAGTACTGAGCGACGCGAGCCAGCAAGCCGACGCCGCTCGCCATAG
o ++++++
o
o
o
5' AGCTCACTCAAAGGCGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAA
o ++++++
3' TCGAGTGAGTTTCGCCATTATGCCAATAGGTGTCTTAGTCCCCTATTGCGTCTTCTTGTACTCGTTTTCCGGTCTTTTCCGGTCTTGGCATT
o ++++++
o
5' AAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTAT
o ++++++
3' TTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTAGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCTGATA
o ++++++
o
5' AAAGATACCAGGCGTTTCCCCTGGAAGCTCCCTCGTGCCTCTCCTGTTCGACCCCTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGAAG
o ++++++
3' TTTCTATGGTCCGCAAAAGGGGACCTTCGAGGGAGCACCGGAGAGGACAAGGCTGGGACGGCAATGGCCTATGGACAGCGGAAAGAGGGGAGCCCTTC
o ++++++
o
5' CGTGGCGCTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCGTTCAGCCCGAC
o ++++++
3' GCACCGGAAAGAGTATCGAGTGCACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGGTTCCGACCCGACACACGTGCTTGGGGGGCAAGTCGGGCTG
o ++++++
o
5' CGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGA
o ++++++
3' GCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGCCATCTGTGCTGAATAGCGGTGACCGTTCGTCGGTGACCATTGTCTTAATCGTCTCGCT
o ++++++
o
5' GGTATGTAGGCGGTGCTACAGAGTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTAC
o ++++++
3' CCATACATCCGCCACGATGTCTCAAGAACTTCACCACCGGATTGATGCCGATGTGATCTTCTGTGCATAAACCATAGACGCGAGACGACTTCGGTCAATG
o ++++++
o
5' CTTCGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGATTACGCGCAGAAAAAAA
o ++++++
3' GAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTGTGTTGGTGGCGACCATCGCCACCAAAAAACAAACGTTTCGTCGTCTAATGCGCGTCTTTTTTT
o ++++++
o
5' GGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGAACGAAAACCTCAGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGA
o ++++++
3' CCTAGAGTCTTCTAGGAACTAGAAAAGATGCCCCAGACTGCGAGTACCTTGCTTTTGTAGTGCAATTCCTTAAAACAGTACTCTAATAGTTTTTCTCT
o ++++++
o
5' TCTTCACTAGATCCTTTTAAATTTAAATGAAGTTTTTAAATCAATCTAAAGTATATATAGTAAACTTGGTCTGACAGTTACCAATGCTTAAATCAGTGA
o ++++++
3' AGAAGTGGATCTAGGAAAATTTAATTTTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTAGTCACT
o ++++++
o
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Pcil
AflIII

Amp^r

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5' GGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCC
 6000
 3' CCGTGGATAGAGTTCGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGAGGGGCGAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGG
 Amp res

5' AGTGTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTTCAA
 6100
 3' TCACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTAAATAGTCTGTTATTTGGTTCGGTTCGGCCTTCCCGCTCGCGTCTTCCAGGACGTT
 Amp res

5' CTTTATCCGCTCCATCCAGTCTATTAATGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTTCGCAACGTTGTTGCCATTGCTACAGG
 6200
 3' GAAATAGGCGGAGGTAGGTAGGTAGATAAATTAACAACGGCCCTTCGATCTCAATCATCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCC
 Amp res

5' CATCGTGGTGTACGCTCGTCTTGGTATGGCTTCATTAGCTCCGGTTCCTCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCG
 6300
 3' GTAGCACCACAGTGGGAGCAGCAACCATAACGAAGTAAGTCGAGGCCAAGGGTGTAGTTCGGCTCAATGTACTAGGGGTACAACACGTTTTTTTCGC
 Amp res

5' GTTAGCTCCTTCGGTCTCCGATCGTTGTCAGAAGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAATTCTTACTGTCATGC
 6400
 3' CAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTCAACCGCGTCAACAATAGTGAGTACCAATACCGTCTGACGTATTAAGAGAATGACAGTACG
 Amp res

Scal

5' CATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCAATCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACG
 6500
 3' GTAGGCATTCTACGAAAAGACACTGACCACTCATGAGTTGGTTTCAGTAAGACTCTTATCACATACGCCGCTGGTCAACGAGAACGGGCCGAGTTATGC
 Amp res

5' GGATAATACCGGCCACATAGCAGAACTTTAAAAGTGCTCATCATTTGAAAACGTTCTTCGGGGCGAAAACCTCAAGGATCTTACCGCTGTTGAGATCC
 6600
 3' CCTATTATGGCGCGGTGTATCGTCTGAAATTTTACAGTAGTAACTTTTGAAGAAGCCCCGCTTTTGAAGATTCTTAGAATGGCGACAACCTTAGG
 Amp res

5' AGTTCGATGTAACCCACTCGTGACCCAACTGATCTTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAA
 6700
 3' TCAAGCTACATTGGGTGAGCAGCTGGGTTGACTAGAAGTCGTAGAAAATGAAAGTGGTTCGCAAAAGACCCACTCGTTTTTGTCTTCCGTTTTACGGCGTT
 Amp res

5' AAAAGGGAATAAGGGCGACACGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTATGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATA
 6800
 3' TTTTCCCTTATTCCCGCTGTGCCTTTACAACCTTATGAGTATGAGAAGGAAAAGTTATAATAACTTCGTAATAGTCCCAATAACAGAGTACTCGCCTAT
 Amp res

5' CATATTTGAATGTATTTAGAAAAATAACAAATAGGGGTTCCGCGCACATTTCCCGGAAAAGTGCCACCTGACGTCTAAGAAACCATTATATCATGACA
 6900
 3' GTATAAACTTACATAAATCTTTTATTTGTTTATCCCAAGGCGCGTGTAAAGGGCTTTTTCACGGTGGACTGCAGATTCTTGGTAATAATAGTACTGT
 Amp res

5' TTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCCTCGCGGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCA
 7000
 3' AATTGGATATTTTATCCGCATAGTGTCCGGGAAAGCAGAGCGCGCAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTGAGGGCTCTGCCAGT
 Amp res

