

## pMSCVneo-GFP-miR Cntl BART1

|              |   |  |
|--------------|---|--|
| Absent Sites | 0 | AarI, AbsI, AjuI, AjuI', AlfI, AlfI', ApaI, AsiSI, AvrII, BarI, BarI', BclI, BpII, BpII', BsaBI, BsiWI, BstBI, BstXI, BstZ17I, CspCI, CspCI', FseI, FspAI, MauBI, MfeI, MluI, MreI, NruI, PacI, PflMI, PmeI, PmlI, PshAI, PstI, PspOMI, PspXI, PstI, PstI', SacII, SanDI, SbfI, SfiI, SgrDI, SnaBI, SmaI, XcmI, XhoI |
| AccI         | 1 | 3773   |
| AflIII       | 1 | 4862   |
| ArsI         | 1 | 1732   |
| ArsI'        | 1 | 1700   |
| BamHI        | 1 | 3766   |
| BbsI         | 1 | 2395   |
| BglIII       | 1 | 1411   |
| BipI         | 1 | 2720   |
| BsmI         | 1 | 2878   |
| BspEI        | 1 | 2866   |
| BstEII       | 1 | 1089   |
| Clal         | 1 | 3793   |
| DraIII       | 1 | 2190   |
| EcoRI        | 1 | 2427   |
| HindIII      | 1 | 3786   |
| HpaI         | 1 | 2239   |
| NdeI         | 1 | 6926   |
| NotI         | 1 | 2158   |
| NsiI         | 1 | 2399   |
| PciI         | 1 | 4862   |
| RsrII        | 1 | 3613   |
| Sall         | 1 | 3772   |
| Scal         | 1 | 6235   |
| SgrAI        | 1 | 7298   |
| SrfI         | 1 | 2320   |
| StuI         | 1 | 2741   |

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

5' TTAGGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCG  
 200  
 3' AATCCTTGTCTCTCTGTGCTTATACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCCGGTTCTTGTCTACCAGGGGTCTACGC  
 5' pCMV LTR

5' GTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTC  
 300  
 3' CAGGGCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAG  
 5' pCMV LTR

5' GCTTCTCGTCTCTGTTCGCGCCTTCTGCTCCCCGAGCTCAATAAAAAGAGCCACAAACCCCTCACTCGGCGCGCAGTCTCCGATAGACTGCGTCGCCC  
 400  
 3' CGAAGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTAATTTCTCGGGTGTGGGGAGTGAGCCGCGCGGTGAGGAGGCTATCTGACGCAGCGGG  
 5' pCMV LTR

5' GGGTACCCGTATCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGACTCGCTGATCCTTGGGAGGGTCTCCTCAGATTGATTGACTGCCACCT  
 500  
 3' CCCATGGGCATAAGGGTTAATTCGGAGAACGACAAACGTAGGCTTAGCACCTGAGCGACTAGGAACCCCTCCAGAGGAGTCTAACTAACTGACGGGTGGA  
 5' pCMV LTR

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

5' TGTCTGTCTCTGTCTTTGTGCGTGTGTGTCGGCATCTAATGTTTGCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGG  
 700  
 3' ACAGACAGAGACAGAAACACGCACAAACACGGCCGTAGATTACAAACCGGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCTGGGCACC  
 Pack Signal

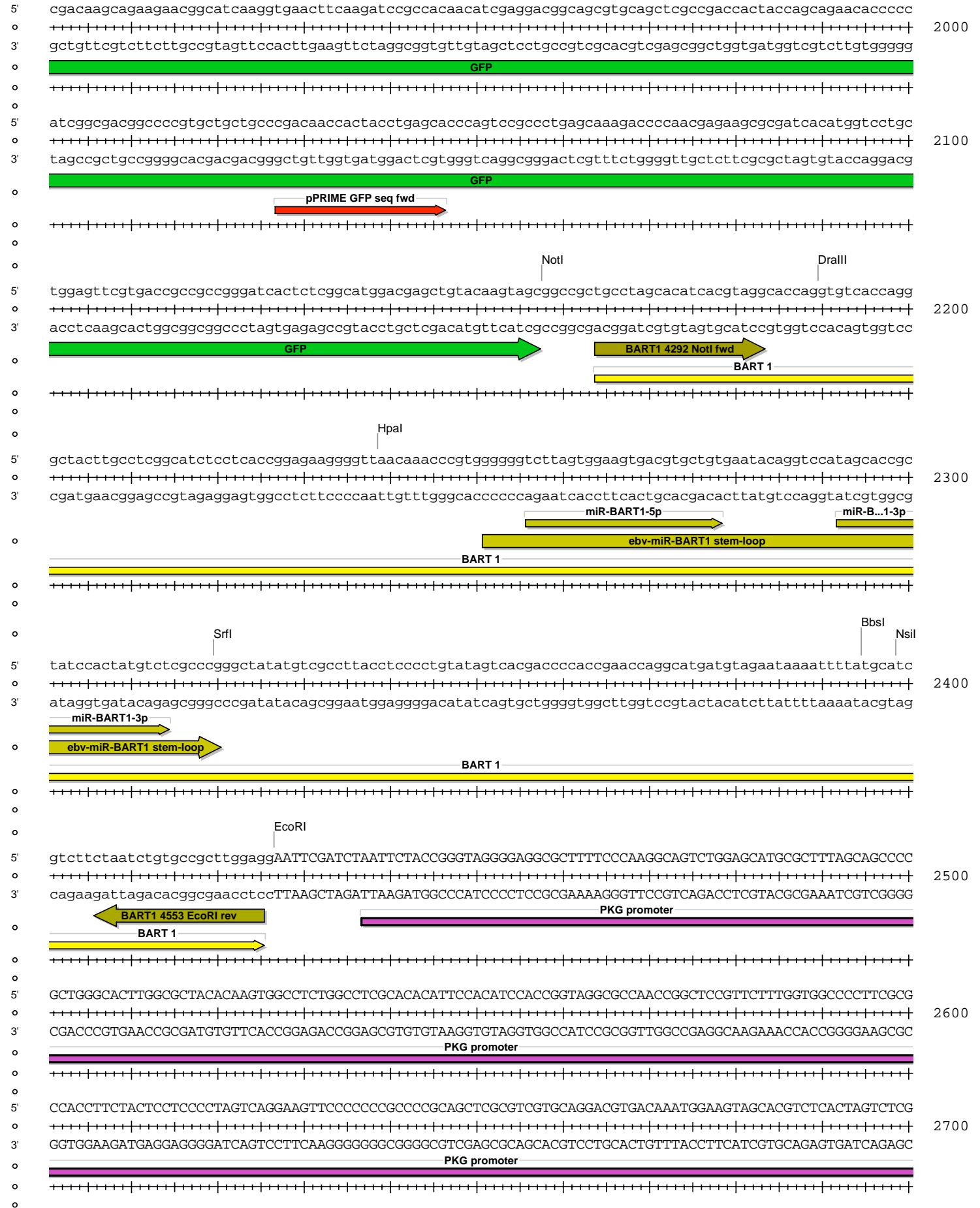
5' TGGAATGACGAGTCTGAACACCCGCGCAACCTGGGAGACGTCCCAGGGACTTTGGGGCCGTTTGTGGCCCGACCTGAGGAAGGGAGTCGATG  
 800  
 3' ACCTTGACTGCTCAAGACTTGTGGGCCGGCGTTGGGACCCTCTGCAGGGTCCCTGAAACCCCGGCAAAAACACCGGGCTGGACTCCTTCCTCAGCTAC  
 Pack Signal

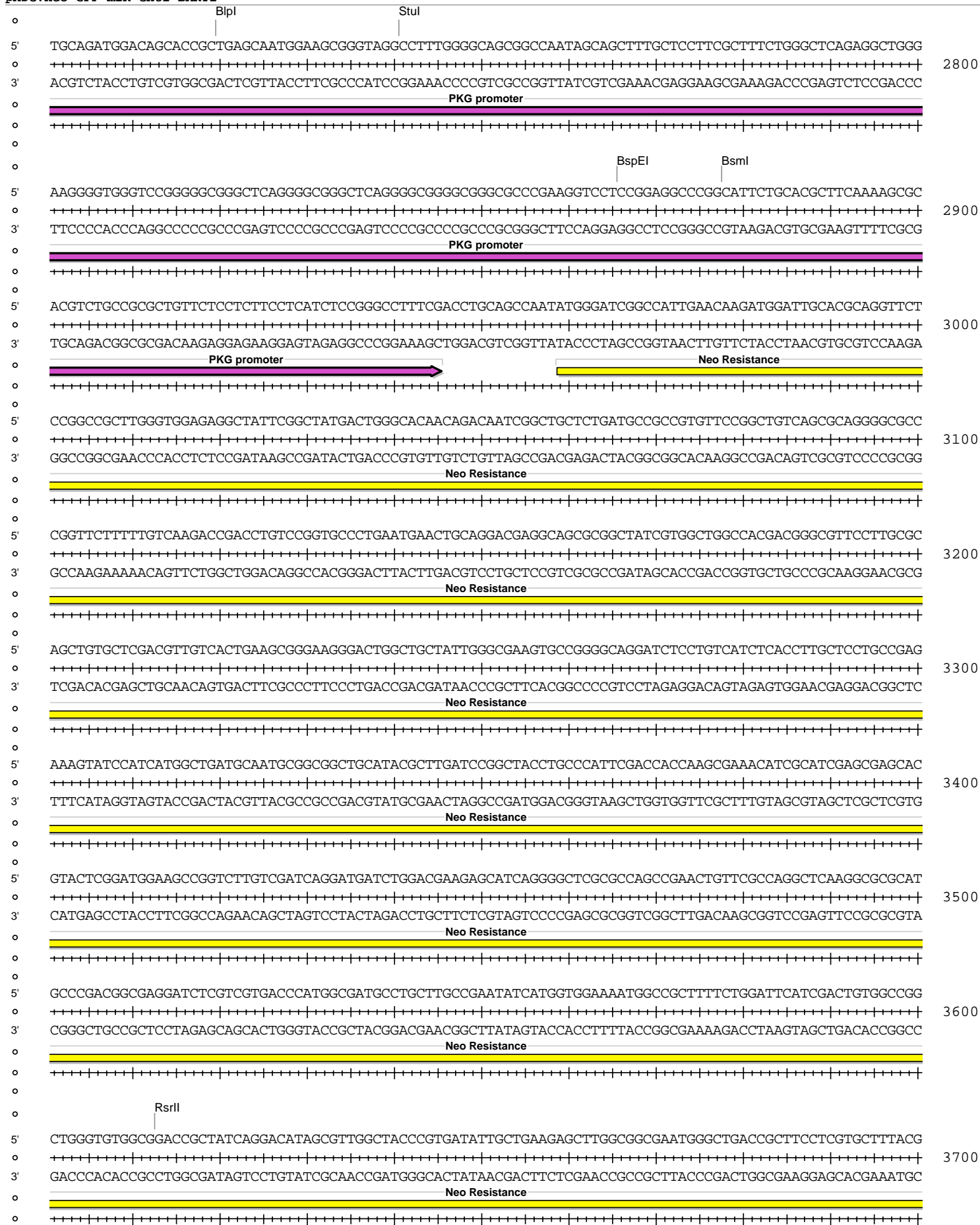
5' TGGAATCCGACCCCGTCAGGATATGTGGTCTGGTAGGAGACGAGAACC TAAAACAGTTCCCGCCTCCGTCTGAATTTTGTCTTCGGTTTGAACCGAA  
 900  
 3' ACCTTAGGCTGGGGCAGTCTATACACCAAGACCATCCTCTGCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGCTT  
 Pack Signal

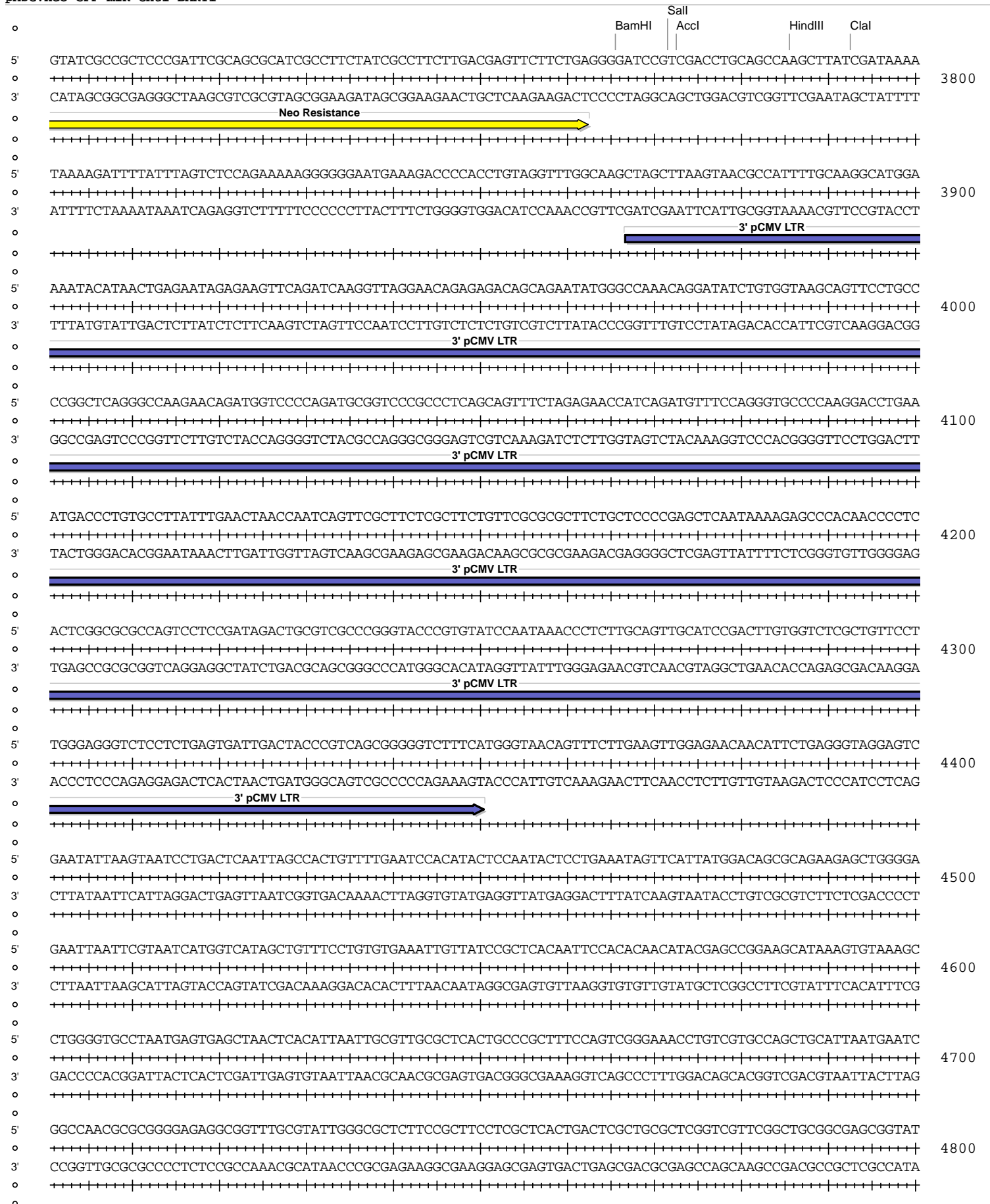
5' GCCGCGCTCTGTCTGCTGCAGCGCTGCAGCATCGTTCGTGTTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTTAC  
 1000  
 3' CGGCGCGCAGAACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTTTAATCCCGGTCGTGACAATG  
 Pack Signal



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Pcil  
AflIII

5' CAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAA 4900  
 +  
 3' GTCGAGTGAGTTCCGCCAATTATGCCAATAGGTGTCTTAGTCCCTTATTGCGTCCTTCTTGTACACTCGTTTTCCGGTTCGTTTTCCGGTCTTGGCATT  
 +

5' AAAGGCCGCGTGTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTA 5000  
 +  
 3' TTTCCGGCGCAACGACCGCAAAGGTATCCGAGGCGGGGGACTGTCTGAGTGTTTTTAGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCTGAT  
 +

5' TAAAGATACCAGGCGTTTTCCCTGGAAGCTCCCTCGTGCCTCTCTGTTCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTCTCCCTTCGGGAA 5100  
 +  
 3' ATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAGGCGAAAGAGGAAGCCCTT  
 +

5' GCGTGGCGCTTCTCATAGCTCAGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTTCAGCCCGA 5200  
 +  
 3' CGCACCGCGAAAGAGTATCGAGTGCACATCCATAGAGTCAAGCCACATCCAGCAACGAGGTTTCGACCCGACACACTGCTTGGGGGCAAGTCCGGCT  
 +

5' CCGCTGCGCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCG 5300  
 +  
 3' GGCGACGCGGAATAGGCCATTGATAGCAGAAGTTCAGGTTGGGCCATTCTGTGCTGAATAGCGGTGACCGTCGTCGGTGACCATTGTCCTAATCGTCTCGC  
 +

5' AGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTA 5400  
 +  
 3' TCCATACATCCGCCACGATGTCTCAAGAAGTTCACCACCGGATTGATGCCGATGTGATCTTCTGTATATAAACCATAGACGCGAGACGACTTCGGTCAAT  
 +

5' CCTTCGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAACCACCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGATTACCGCAGAAAAAA 5500  
 +  
 3' GGAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTTGTTTTGGTGGCGACCATCGCCACAAAAAAACAACGTTTCGTCGTCTAATGCGCGTCTTTTTT  
 +

5' AGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGAACGAAAACCTACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGG 5600  
 +  
 3' TCCTAGAGTTCTTCTAGGAACTAGAAAAGATGCCAGACTGCGAGTCACTTGTCTTTGAGTGAATTCCTTAAACAGTACTCTAATAGTTTTTCC  
 +

5' ATCTCACCTAGATCCTTTTAAATTAATAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTG 5700  
 +  
 3' TAGAAGTGGATCTAGGAAAATTAATTTTTACTTCAAATTTAGTTAGATTTTATATATACTCATTGTAACCAGACTGTCAATGGTTACGAATTAGTCAC  
 +

**Amp res**

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5' AGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCC 5800  
 +  
 3' TCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGAGGGGAGCAGACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGG  
 +

**Amp res**

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5' CAGTGTGCAATGATACCGCGAGACCCAGCTCACCAGCTCCAGATTTATCAGCAATAAACAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCA 5900  
 +  
 3' GTCACGACGTTACTATGGCGCTCTGGGTGCGAGTGCCGAGGTCTAAATAGTTCGTTATTTGGTGGTCCGGCTTCCCGCTCGCGTCTTACCAGGACGT  
 +

**Amp res**

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5' ACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAAGTGTTCGCCAGTTAATAGTTTGCACAACGTTGTTGCCATTGCTACAG 6000  
 +  
 3' TGAAATAGGCGGAGGTAGGTACAGATAATTAACAACGGCCCTTCGATCTCATTCATCAAGCGTCAATATCAAACGCGTTGCAACAACGGTAACGATGTC  
 +

**Amp res**

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5' GCATCGTGGTGTACAGCTCGTGGTTGGTATGGCTTCATTCAGCTCCGGTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGC  
 6100  
 3' CGTAGCACCACAGTGCAGAGCAGCAAACCATACCGAAGTAAGTCGAGGCCAAGGGTGTAGTTCCGCTCAATGTACTAGGGGTACAACACGTTTTTTTCG  
 Amp res

5' GGTTAGCTCCTTCGGTCTCCGATCGTTGTGTCAGAAAGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAATCTCTTACTGTGTCATG  
 6200  
 3' CCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTTCAACCGGCGTCACAATAGTGAGTACCAATACCGTCTGTGACGTATTAAGAGAATGACAGTAC  
 Amp res

Scal

5' CCATCCGTAAGATGCTTTTCTGTGACTGGTGTGACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGCGTCAATAC  
 6300  
 3' GGTAGGCATTCTACGAAAAGACTGACCACCTCATGAGTTGGTTCAGTAAGACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGCCGCGAGTTATG  
 Amp res

5' GGGATAATACCGCCACATAGCAGAACTTTAAAAGTGTCTATCATTTGGAAAACGTTCTTCGGGGCGAAAACCTCAAGGATCTTACCGCTGTTGAGATC  
 6400  
 3' CCCTATTATGGCGCGTGTATCGTCTTGAAATTTTACGAGTAGTAACCTTTTGCAAGAAGCCCGCTTTTGAGAGTTCCTAGAATGGCGACAACCTTAG  
 Amp res

5' CAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCA  
 6500  
 3' GTCAAGCTACATTGGGTGAGCAGTGGGTTGACTAGAAGTCGTAGAAAATGAAAGTGGTCGCAAAAGCCCACTCGTTTTTGTCCCTTCCGTTTTACGGCGT  
 Amp res

5' AAAAAGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGAT  
 6600  
 3' TTTTCCCTTATTCCCGCTGTGCCTTTACAACCTTATGAGTATGAGAAGGAAAAAGTTATAATAAAGTTCGTAAATAGTCCAATAACAGAGTACTCGCCTA  
 Amp res

5' ACATATTTGAATGTATTTAGAAAAATAACAAATAGGGTTCCGCGCACATTTCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATATCATGAC  
 6700  
 3' TGTATAAACTTACATAAACTCTTTTATTTGTTTATCCCAAGGCGCGTGTAAAGGGGCTTTTACCGGTGGACTGCAGATCTTTGGTAATAATAGTACTG  
 Amp res

5' ATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTCGCGGTTTCGGTGTGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTC  
 6800  
 3' TAAATGGATATTTTATCCGCATAGTGTCTCCGGAAAGCAGAGCGCGCAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTCGAGGGCCTCTGCCAG  
 Amp res

5' ACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTGGCGGGTGTGGGGCTGGCTTAACTATGCGGCATCAG  
 6900  
 3' TGTGAAACAGACATTGCCTACGGCCCTCGTCTGTTCCGGCAGTCCCGCGCAGTCGCCACAACCGCCACAGCCCGACCGAATTGATACGCCGTAGTC  
 Amp res

Ndel

5' AGCAGATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGTAAAGGAGAAAATACCGCATCAGGCGCCATTGCCATTGAGGCTGCG  
 7000  
 3' TCGTCTAACATGACTCTCACGTGGTATACGCCACACTTTATGGCGTGTCTACGCATTCCTCTTTTATGGCGTAGTCCGCGGTAAGCGGTAAGTCCGACGC  
 Amp res

5' CAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGG  
 7100  
 3' GTTGACAACCTTCCCGCTAGCCACGCCCGGAGAAGCGATAATGCGGTGACCGCTTTCCCTTACACGACGTTCCGCTAATTCACCCATTGCGGTCCC  
 Amp res

