

## pMSCVneo-GFP-miR-24-2

Absent Sites	0	AarI,AbstI,AjuI,AjuI',AlfI,AlfI',AsiSI,AvrII,BarI,BarI',BbsI,BclI,BpII,BpII',BsaBI,BsiWI,BstBI,BstXI,BstZ17I,CspCI,CspCI',DraIII,FseI,FspAI,HpaI,MauBI,MfeI,MluI,MreI,NruI,NsiI,Pacl,PfiMI,PmeI,PmlI,PsiI,PspXI,Psri,Psri',SacII,SbfI,SfiI,SgrDI,SnaBI,SrfI,Swal,XcmI,XhoI
AccI	1	3933 (7635)
AflIII	1	5022 (7635)
ApaI	1	2451 (7635)
ArsI	1	1737 (7635)
ArsI'	1	1705 (7635)
BamHI	1	3926 (7635)
BglIII	1	1411 (7635)
BlnI	1	2880 (7635)
BsaAI	1	3561 (7635)
BsmI	1	3038 (7635)
BspEI	1	3026 (7635)
BstEII	1	1089 (7635)
Clal	1	3953 (7635)
EcoRI	1	2587 (7635)
HincII	1	3934 (7635)
HindIII	1	3946 (7635)
NdeI	1	7086 (7635)
NotI	1	2163 (7635)
PciI	1	5022 (7635)
PshAI	1	2410 (7635)
PspOMI	1	2447 (7635)
Sall	1	3932 (7635)
SanDI	1	2494 (7635)
Scal	1	6395 (7635)
SexAI	1	1217 (7635)
SgrAI	1	7458 (7635)
StuI	1	2901 (7635)

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5' TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGC AAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGG  
 100  
 3' ACTTCTG GGGTGGACATCCAAACCGTTCGATCGAATTCATTGCGGTA AACCGTTC CGTACCTTTTATGTATTGACTCTTATCTCTTCAAGTCTAGTTCC  
 5' pCMV LTR

5' TTAGGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCG  
 200  
 3' AATCCTTGTCTCTCTGTCGCTTATACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCC GGTTCTTGTCTACCAGGGGTCTACGC  
 5' pCMV LTR

5' GTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTC  
 300  
 3' CAGGGCCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAG  
 5' pCMV LTR

5' GCTTCTCGCTTCTGTTCGCGCCTTCTGCTCCCCGAGCTCAATAAAAAGAGCCACAAACCCCTCACTCGGCGCGCAGTCTCCGATAGACTGCGTCCCC  
 400  
 3' CGAAGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTAATTTCTCGGGTGTGGGGAGTGAGCCGCGCGGT CAGGAGGCTATCTGACGCAGCGGG  
 5' pCMV LTR

5' GGGTACCCGTATTCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGACTCGCTGATCCTTGGGAGGGTCTCCTCAGATTGATTGACTGCCACCT  
 500  
 3' CCCATGGGCATAAGGGTTAATTTGCGGAGAACGACAAACGTAGGCTTAGCACCTGAGCGACTAGGAACCCCTCCAGAGGAGTCTAACTAACTGACGGGTGGA  
 5' pCMV LTR

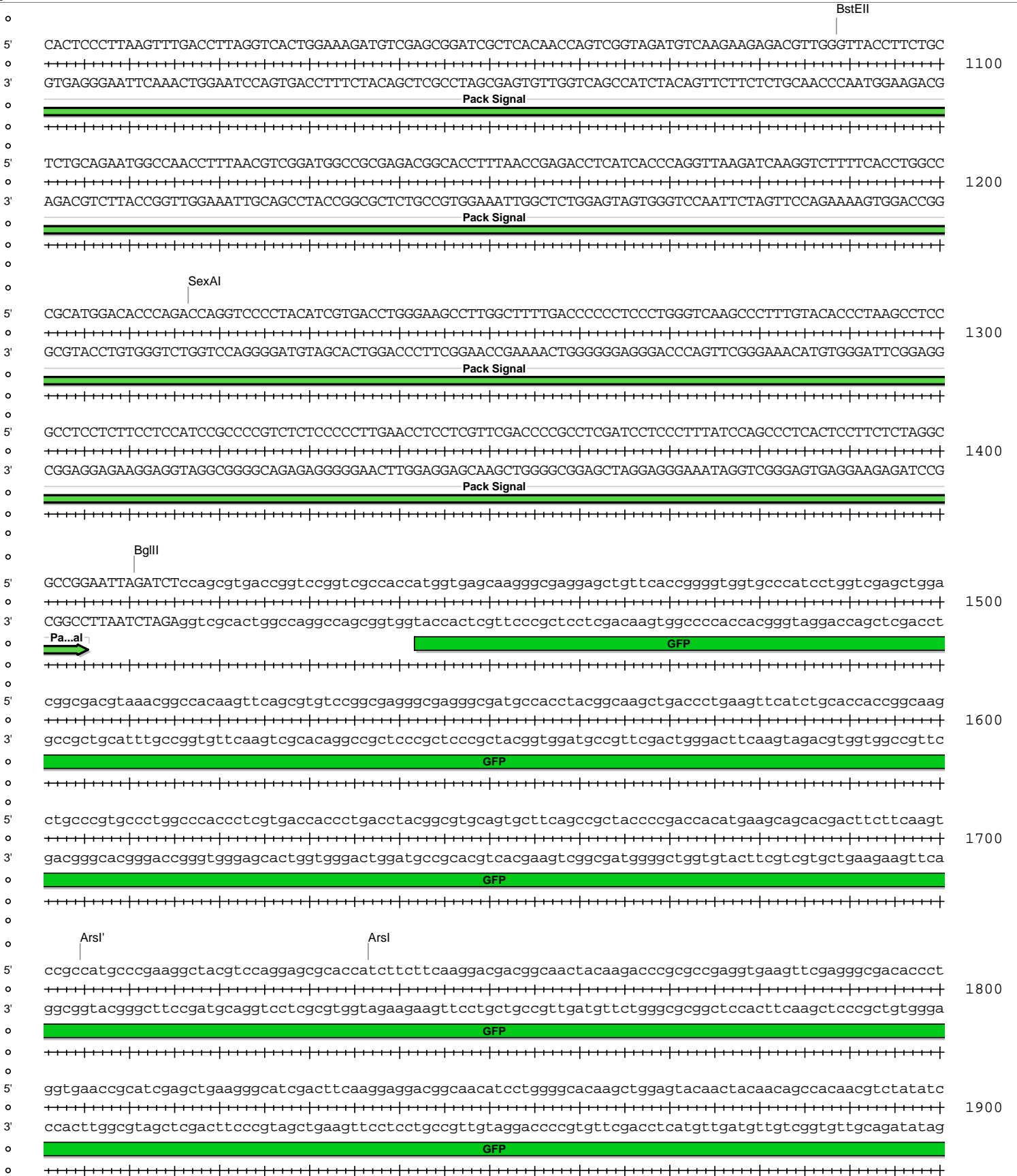
5' CGGGGTCTTTTCAATTTGGAGGTTCCACCGAGATTGGAGACCCCTGCCAGGGACCACCGACCCCCCGCGGGAGGTAAGCTGGCCAGCGGTCTGTTTCG  
 600  
 3' GCCCCAGAAAGTAAACCTCCAAGGTGGCTCTAAACCTCTGGGGACGGGTCCCTGGTGGCTGGGGGGCGGCCCTCCATTTCGACCGGTTCGCAGCAAAGC  
 5' pCMV LTR Pack Signal

5' TGTCTGTCTCTGTCTTTGTGCGTGTTTGTGCCGCATCTAATGTTTGC GCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGG  
 700  
 3' ACAGACAGAGACAGAAACACGCACAAACACGGCCGTAGATTACAAACCGGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCTGGGCACC  
 Pack Signal

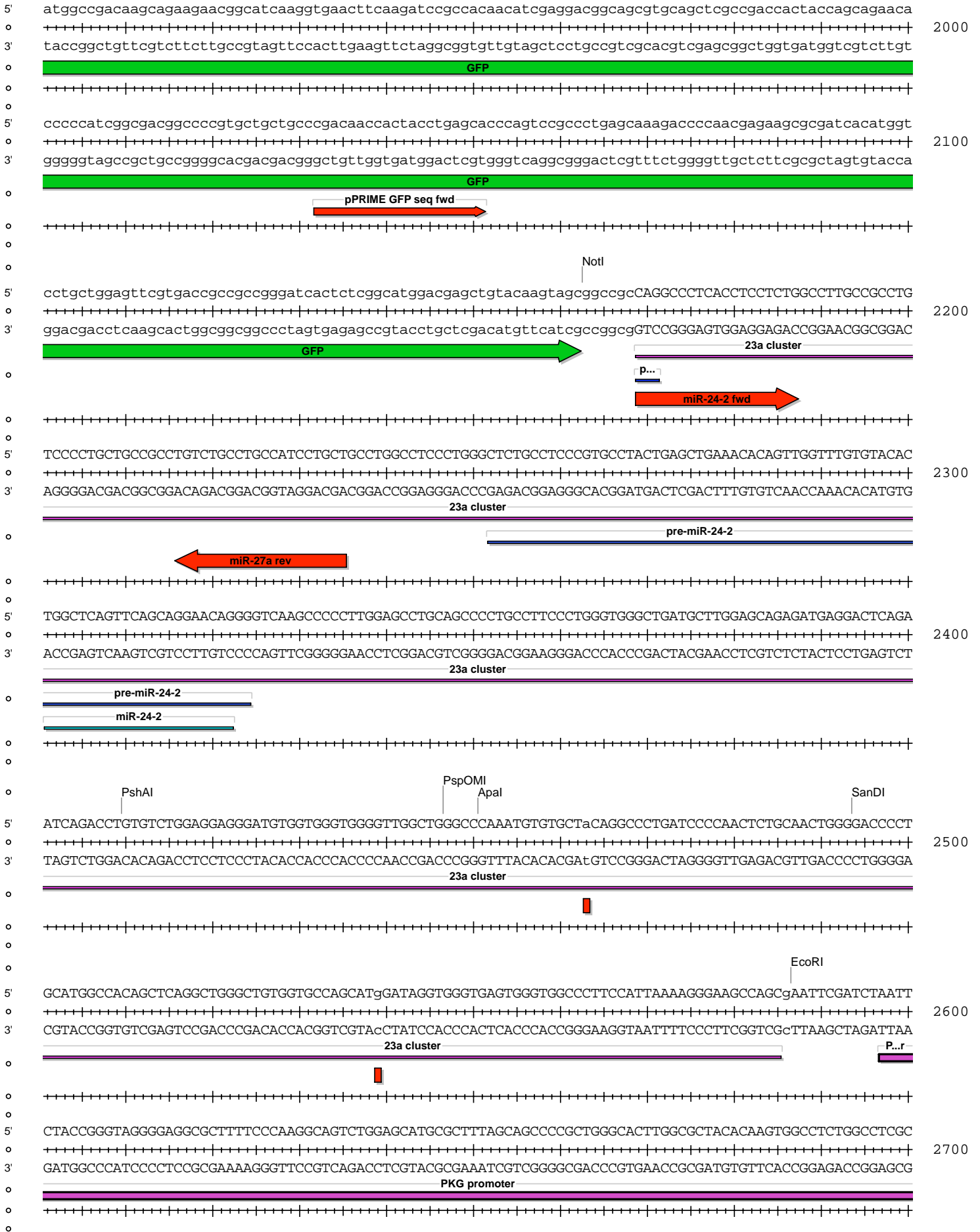
5' TGGAATGACGAGTTCGAAACCCGCGCAACCCCTGGGAGACGTCCCAGGGACTTTGGGGCCGTTTGTGGCCCGACCTGAGGAAGGGAGTCGATG  
 800  
 3' ACCTTGACTGCTCAAGACTTGTGGGCCGGCGTTGGGACCCTCTGCAGGGTCCCTGAAACCCCGGCAAAAACACCGGGCTGGACTCCTTCCTCAGCTAC  
 Pack Signal

5' TGGAATCCGACCCCGT CAGGATATGTGGTCTGGTAGGAGACGAGAACC TAAAACAGTTC CCGCCTCCGTCTGAATTTTGTCTTCGGTTTGAACCGAA  
 900  
 3' ACCTTAGGCTGGGGCAGTCTTATACACCAAGACCATCCTCTGCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGGCTT  
 Pack Signal

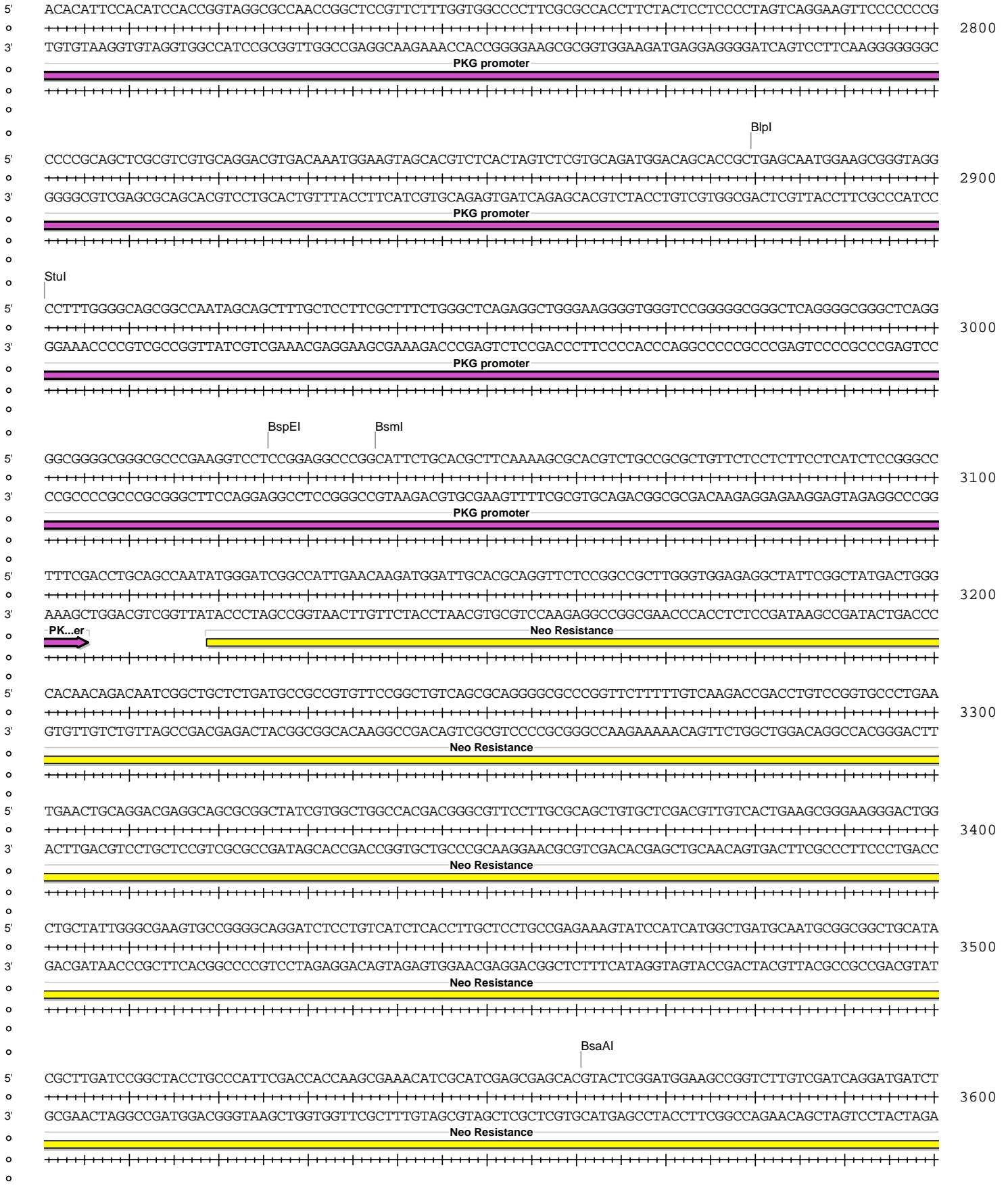
5' GCCGCGCTCTGTCTGCTGCAGCGCTGCAGCATCGTTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTTAC  
 1000  
 3' CGGCGCGCAGAACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTTTAATCCCGGTCTGACAATG  
 Pack Signal



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5' GGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCC  
 3' CCTGCTTCTCGTAGTCCCCGAGCGGGTTCGGCTTGACAAGCGGTCCGAGTTCGCGCGTACGGGCTGCCGCTCCTAGAGCAGCACTGGGTACCGCTACGG  
 Neo Resistance

5' TGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTTCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTA  
 3' ACGAACGGCTTATAGTACCACCTTTTACCGGCGAAAAGACCTAAGTAGCTGACACCGGCCGACCCACACCGCCTGGCGATAGTCTGTATCGCAACCGAT  
 Neo Resistance

5' CCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCTCGTGTCTTACGGTATCGCCGCTCCCGATTTCGAGCGCATCGCCTTCTATCG  
 3' GGGCACTATAACGACTTCTCGAACCGCCGCTTACCCGACTGGCGAAGGAGCACGAAATGCCATAGCGCGGAGGGCTAAGCGTCGCGTAGCGGAAGATAGC  
 Neo Resistance

5' CCTTCTTGACGAGTTCTTCTGAGGGGATCCGTCGACCTGCAGCCAAGCTTATCGATAAAAATAAAAGATTTTATTAGTCTCCAGAAAAAGGGGGAATGA  
 3' GGAAGAAGTCTCAAGAAGACTCCCCTAGGCAGCTGGACGTCGGTTCGAATAGCTATTTATTTCTAAAATAAATCAGAGGTCTTTTCCCCCTTACT  
 Neo Resistance

5' AAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAAGTAACGCCATTTTGCAAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTTA  
 3' TTCTGGGGTGACATCAAACCGTTCGATCGAATTCAATTGCGGTAAAACGTTCCGTACCTTTTATGTATGACTCTTATCTCTTCAAGTCTAGTTCCAAT  
 3' pCMV LTR

5' GGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTC  
 3' CCTGTCTCTCTGTCTTATACCCGTTTGTCTATAGACACCATTCTGCAAGGACGGGGCCGAGTCCCGTCTTGTCTACCAGGGGTCTACGCCAG  
 3' pCMV LTR

5' CCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCAAGGACCTGAAATGACCTGTGCCTTATTTGAACTAACCAATCAGTTCGCT  
 3' GGCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAGCGA  
 3' pCMV LTR

5' TCTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCACAACCCCTCACTCGGCGCGCCAGTCTCCGATAGACTGCGTCGCCCGGG  
 3' AGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTATTTTCTCGGGTGTGGGGAGTGAGCCGCGCGTCAAGGAGCTATCTGACGCAGCGGGCCC  
 3' pCMV LTR

5' TACCCGTGTATCCAATAAACCTCTTGCAAGTTCGACTTGTGGTCTCGCTGTCTCTGGGAGGGTCTCCTCTGAGTGATTGACTACCCGTCAGCGG  
 3' ATGGGCACATAGGTTATTTGGGAGAAGTCAACGTAGGCTGAACACCAGGCGACAAGGAACCTCCAGAGGAGACTCACTAAGTATGATGGGCAGTCCGC  
 3' pCMV LTR

5' GGGTCTTTCATGGGTAACAGTTTCTTGAAGTTGGAGAACAACATTCTGAGGGTAGGAGTCAATATTAAGTAATCCTGACTCAATTAGCCACTGTTTGA  
 3' CCCGAAAAGTACCCATTGTCAAAGAAGTCAACCTCTTGTGTGTAAGACTCCCATCCTCAGCTTATAATTCATTAGGACTGAGTTAATCGGTGACAAAAC  
 3' pCMV LTR

Restriction sites: BamHI, Sall, Accl, HincII, HindIII, ClaI

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5' ATCCACATACTCCAATACTCCTGAAATAGTTTCATTATGGACAGCGCAGAAGAGCTGGGGAGAATTAATTCGTAATCATGGTCATAGCTGTTTCCTGTGTG  
 4700  
 3' TAGGTGTATGAGGTTATGAGGACTTTATCAAGTAATACCTGTGCGCTCTTCTCGACCCCTCTTAATTAAGCATTAGTACCAGTATCGACAAAGGACACAC  
 5' AAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCG  
 4800  
 3' TTTAACAAATAGGCGAGTGTAAAGGTGTGTTGTATGCTCGGCCCTTCGTATTTACATTTTCGGACCCACGGATTACTCACTCGATTGAGTGAATTAACGC  
 5' TTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGCGGTTTTCGTATTGGGCGCT  
 4900  
 3' AACGCGAGTGACGGGCGAAAGTTCAGCCCTTTGGACAGCACGGTCGACGTAATTACTTAGCCGGTTGCGCGCCCTCTCCGCCAAACGCATAACCCGCGA  
 5' CTTCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTCTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGTTATCCACAGAATC  
 5000  
 3' GAAGGCGAAGGAGCGAGTGACTGAGCGACGCGAGCCAGCAAGCCGACGCCGCTCGCCATAGTCGAGTGAGTTTCCGCCATTATGCCAATAGGTGTCTTAG  
 PciI  
 AflIII  
 5' AGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTTTCATAGGCTCCGCCCC  
 5100  
 3' TCCCTATTGCGTCCTTTCTGTACTCGTTTTCCGGTCTTTTCCGGTCTTGGCATTTTTCCGGCGCAACGACCGCAAAAGGTATCCGAGGCGGGG  
 5' CCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGC  
 5200  
 3' GGACTGCTCGTAGTGTTTTAGCTGCGAGTTTCAGTCTCCACCGCTTTGGGCTGTCTGATATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACG  
 5' GCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCTTCTCCTTCCGGGAAGCGTGGCGCTTTCATAGCTCACGCTGTAGGTATCTCAG  
 5300  
 3' CGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAGGCGGAAAGAGGAAGCCCTTCGCACCGCGAAAGAGTATCGAGTGGACATCCATAGAGTC  
 5' TTCGGTGTAGGTGCTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCGCTTTCAGCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAAC  
 5400  
 3' AAGCCACATCCAGCAAGCGAGTTTCGACCCGACACACGTGCTTGGGGGCAAGTCCGGCTGCGCAGCGGAATAGGCCATTGATAGCAGAACTCAGTTG  
 5' CCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTCTTGAAGTGGTGGC  
 5500  
 3' GGCCATTCTGTGCTGAATAGCGGTGACCGTCTGCGGTGACCATTGTCTTAATCGTCTCGCTCCATACATCCGCCACGATGTCTCAAGAACTTACCACCG  
 5' CTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACA  
 5600  
 3' GATTGATGCCGATGTGATCTTCTGTGATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTCTCAACCATCGAGAACTAGGCCGTTTGT  
 5' AACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCT  
 5700  
 3' TTGGTGGCGACCATCGCCACCAAAAAACAAACGTTTCGTGCTTAATGCGCGTCTTTTTTCTAGAGTTCTTCTAGGAACTAGAAAAGATGCCCCAGA  
 5' GACGCTCAGTGAACGAAAACCTACGTTAAGGGATTTTGGTTCATGAGATTATCAAAAAGGATCTTACCTAGATCCTTTTAAATTTAAAATGAAGTTTAA  
 5800  
 3' CTGCGAGTCACCTTGCTTTTGGAGTGAATTCCTAAAACAGTACTCTAATAGTTTTTCTTAGAAGTGGATCTAGGAAAATTTAATTTTACTTCAAAT  
 5' AATCAATCTAAAGTATATATGAGTAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCAT  
 5900  
 3' TTAGTTAGATTTTCATATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTA

Amp res

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5' AGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGCGAGACCCACGCTCACC GGCT  
 6000  
 3' TCAACGGACTGAGGGG CAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGGTCACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGA  
 Amp res

5' CCAGATTTATCAGCAATAAAC CAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATGTTGCCGGG  
 6100  
 3' GGTCTAAATAGTTCGTTATTTGGTTCGGTTCGGCTTCCCGGCTCGCGTCTTCCAGGACGTTGAAATAGGCGGAGGTAGGTGAGATAATTAACAACGGCCC  
 Amp res

5' AAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGC GCAACGTTGTGTCATGCTACAGGCATCGTGGTGT CACGCTCGTCGTTTGGTATGGCTTCATT  
 6200  
 3' TTCGATCTCATT CATCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTGC GAGCAGCAAACCATAACCGAAGTAA  
 Amp res

5' CAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCTCCGATCGTTGT CAGAAGTAAG  
 6300  
 3' GTCGAGGCCAAGGGTGTAGTTCGGCTCAATGTACTAGGGGTACAACAGTTTTTTTCGCCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTTCATTC  
 Amp res

5' TTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAA TCTCTTACTGT CATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAA  
 Scal  
 6400  
 3' AACCGGCGTACAATAGT GAGTACCAATACCGTCGTGACGTATTAAGAGAATGACAGTACGTTAGGCATTCTACGAAAAGACACTGACCACTCATGAGTT  
 Amp res

5' CCAAGTCATTCTGAGAATAGTGTATGCGGGCAGCCGAGTTGCTCTTGCCCGCGTCAATACGGGATAATACCGGCCACATAGCAGAACTTTAAAAGTGCT  
 6500  
 3' GGTTCAGTAAGACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCGCAGTTATGCCCTATTATGGCGCGGTGTATCGTCTTGAAATTTTCACGA  
 Amp res

5' CATCATTGAAAACGTTCTTCGGGGCGAAAAC TCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGACCCCACTGATCTTCA  
 6600  
 3' GTAGTAACCTTTTGCAAGAAGCCCGCTTTTGAGAGTTCCTAGAATGGCGACAAC TCTAGGTCAAGCTACATTGGGTGAGCACGTGGGTGACTAGAAGT  
 Amp res

5' GCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAA CAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAATGTTGAATACTCA  
 6700  
 3' CGTAGAAAATGAAAGTGGTCGCAAGACCCACTCGTTTTTGTCC TTTCCGTTTTACGGCGTTTTTTCCCTTATCCCGCTGTGCCTTTACAAC TTAGAGT  
 Amp res

5' TACTCTTCC TTTTCAATATTATGAAGCATTATCAGGGTAT TGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGT  
 6800  
 3' ATGAGAAGGAAAAAGTTATAATAACTTCGTA AATAGTCCCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAATCTTTTTATTTGTTTATCCCCA  
 Amp res

5' TCCGCGCACATTTCCCGAAAAAGTGCCACCTGACGTCTAAGAAAC CATTATATCATGACATTAACCTATAAAAAATAGGCGTATCACGAGGCCCTTTCTGT  
 6900  
 3' AGGCGCGTGTAAAGGGGCTTTTACGGTGGACTGCAGAT TCTTTGGTAATAATAGTACTGTAATTGGATATTTTATCCGCATAGTGTCCGGGAAAGCA  
 Amp res

5' CTCGCGGTTTCCGGTATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCC  
 7000  
 3' GAGCGCGAAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTCGAGGGCTCTGCCAGTGTGCAACAGACATTCGCCTACGGCCCTCGTCTGTTTCGGG  
 Amp res

o

5' GTCAGGGCGCGTCAGCGGGTGTGGCGGGTGTGCGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTA  
CTGAGAGTGCACCATATGCGGGTGTGAAAT 7100  
o  
3' CAGTCCCGCGCAGTCGCCACAACCGCCACAGCCCCGACCGAATTGATACGCCGTAGTCTCGTCTAACATGACTCTC  
ACGTGGTATACGCCACACTTTA  
o  
o  
5' ACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCCATTCGCCATTGAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTA  
o  
7200  
3' TGGCGTGTCTACGCATTCCTCTTTTATGGCGTAGTCCGCGGTAAGCGGTAAGTCCGACGCGTTGACAACCCTTCCCGCTAGCCACGCCCGGAGAAGCGAT  
o  
o  
5' TTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTA  
AAACGACGGCGCAAGGAA  
o  
7300  
3' AATGCGGTCGACCGCTTTCCTTACACGACGTTCCGCTAATTCAACCCATTGCGGTCCCAAAGGGTCAGTGTGCAACATTTT  
GCTGCGCGGTTCCCTT  
o  
o  
5' TGGTGCATGCAAGGAGATGGCGCCCAACAGTCCCCGGCCACGGGGCCTGCCACCATACCCACGCCGAAACAAGCGCTCATGAGCCGAAGTGGCGAGCC  
o  
7400  
3' ACCACGTACGTTCTCTACCGGGTGTGTCAGGGGGCCGGTGCCCGGACGGTGGTATGGGTGCGGCTTTGTTGCGGAGTACTCGGGCTTACCGCTCGG  
o  
o  
o  
o  
SgrAI  
5' CGATCTTCCCATCGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCCGGTATGCCGGCCACGATGCGTCCGGCGTAGAGGCGATTAG  
o  
7500  
3' GCTAGAAGGGTAGCCACTACAGCCGCTATATCCGCGGTCGTTGGCGTGGACACCGCGCCACTACGGCCGGTCTACGCAGGCCGCATCTCCGCTAATC  
o  
o  
5' TCCAATTTGTTAAAGACAGGATATCAGTGGTCCAGGCTCTAGTTTTGACTCAACAATATCACCAGCTGAAGCCTATAGAGTACGAGCCATAGATAAAAATA  
o  
7600  
3' AGGTAAACAATTTCTGTCTATAGTCACCAGGTCGAGATCAAAACTGAGTTGTTATAGTGGTTCGACTTCGGATATCTCATGCTCGGTATCTATTTTAT  
o  
o  
5' AAAGATTTTATTTAGTCTCCAGAAAAAGGGGGAA  
o  
7635  
3' TTTCTAAAATAAATCAGAGGTCTTTTTCCCCCTT  
o  
o