

pMSCVneo-GFP-miR-27a

Absent Sites	0	AarI,AbstI,AjuI,AjuI',AlfI,AlfI',ApaI,AsiSI,AvrII,BarI,BarI',BbsI,BclI,BplI,BplI',BsaBI,BsiWI,BstBI,BstXI,BstZ17I,CspCI,CspCI',DraIII,FseI,FspAI,HpaI,MauBI,MfeI,MluI,MreI,NruI,NsiI,Pacl,PfiMI,PmeI,PmlI,PshAI,PsiI,PspOMI,PspXI,Psri,Psri',SacII,SanDI,SbfI,SfiI,SgrDI,SnaBI,SrfI,Swal,XcmI,XhoI
AccI	1	3727 (7429)
AflIII	1	4816 (7429)
Arsl	1	1737 (7429)
Arsl'	1	1705 (7429)
BamHI	1	3720 (7429)
BglIII	1	1411 (7429)
BsaAI	1	3355 (7429)
BsmI	1	2832 (7429)
BspEI	1	2820 (7429)
BstEII	1	1089 (7429)
Clal	1	3747 (7429)
EcoRI	1	2381 (7429)
HincII	1	3728 (7429)
HindIII	1	3740 (7429)
NdeI	1	6880 (7429)
NotI	1	2163 (7429)
PciI	1	4816 (7429)
Sall	1	3726 (7429)
Scal	1	6189 (7429)
SexAI	1	1217 (7429)
SgrAI	1	7252 (7429)
StuI	1	2695 (7429)

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5' TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGAAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGG
 100
 3' ACTTCTGGGGTGGACATCCAAACCGTTCGATCGAATTCATTGCGGTAACCGTTCCTGACCTTTTATGTATTGACTCTTATCTCTTCAAGTCTAGTTCC
 5' pCMV LTR

5' TTAGGAACAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCG
 200
 3' AATCCTTGTCTCTCTGTCGCTTATACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCCGGTTCTTGTCTACCAGGGGTCTACGC
 5' pCMV LTR

5' GTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTC
 300
 3' CAGGGCCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAG
 5' pCMV LTR

5' GCTTCTCGTCTCTGTTCGCGCCTTCTGCTCCCCGAGCTCAATAAAAAGAGCCACAAACCCCTCACTCGCGCGCCAGTCTCCGATAGACTGCGTCCCC
 400
 3' CGAAGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTAATTTCTCGGGTGTGGGGAGTGAGCCGCGCGGTGAGGAGGCTATCTGACGCAGCGGG
 5' pCMV LTR

5' GGGTACCCGTATCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGACTCGCTGATCCTTGGGAGGGTCTCCTCAGATTGATTGACTGCCACCT
 500
 3' CCCATGGGCATAAGGGTTAATTTGCGGAGAACGACAAACGTAGGCTTAGCACCTGAGCGACTAGGAACCCCTCCAGAGGAGTCTAACTAACTGACGGGTGGA
 5' pCMV LTR

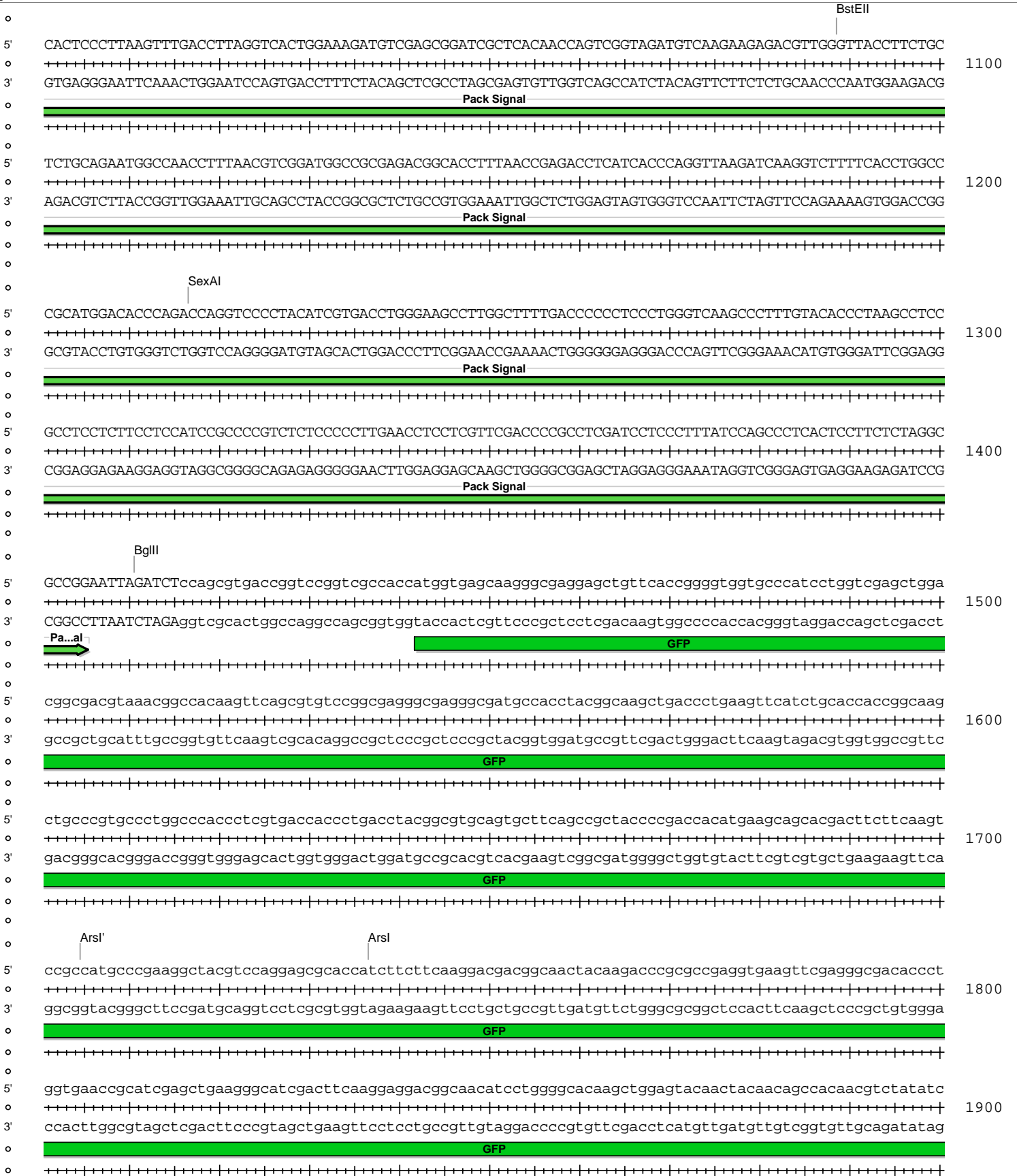
5' CGGGGTCTTTTCAATTTGGAGGTTCCACCGAGATTGGAGACCCCTGCCAGGGACCACCGACCCCCCGCGGGAGGTAAGCTGGCCAGCGGTCTGTTTCG
 600
 3' GCCCCAGAAAGTAAACCTCCAAGGTGGCTCTAAACCTCTGGGGACGGGTCCCTGGTGGCTGGGGGGCGGCCCTCCATTTCGACCGGTGCGCCAGCAAAGC
 5' pCMV LTR Pack Signal

5' TGTCTGTCTCTGTCTTTGTGCGTGTGGTGGCCGCATCTAATGTTTGCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGG
 700
 3' ACAGACAGAGACAGAAACACGCACAAACACGGCCGTAGATTACAAACCGGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCTGGGCACC
 Pack Signal

5' TGGAATGACGAGTCTGAACACCCGCGCAACCTGGGAGACGTCCCAGGGACTTTGGGGCCGTTTGTGGCCCGACCTGAGGAAGGGAGTTCGATG
 800
 3' ACCTTGACTGCTCAAGACTTGTGGCCGGCGTTGGGACCCTCTGCAGGGTCCCTGAAACCCCGGCAAAAACACCGGGCTGGACTCCTTCCTCAGCTAC
 Pack Signal

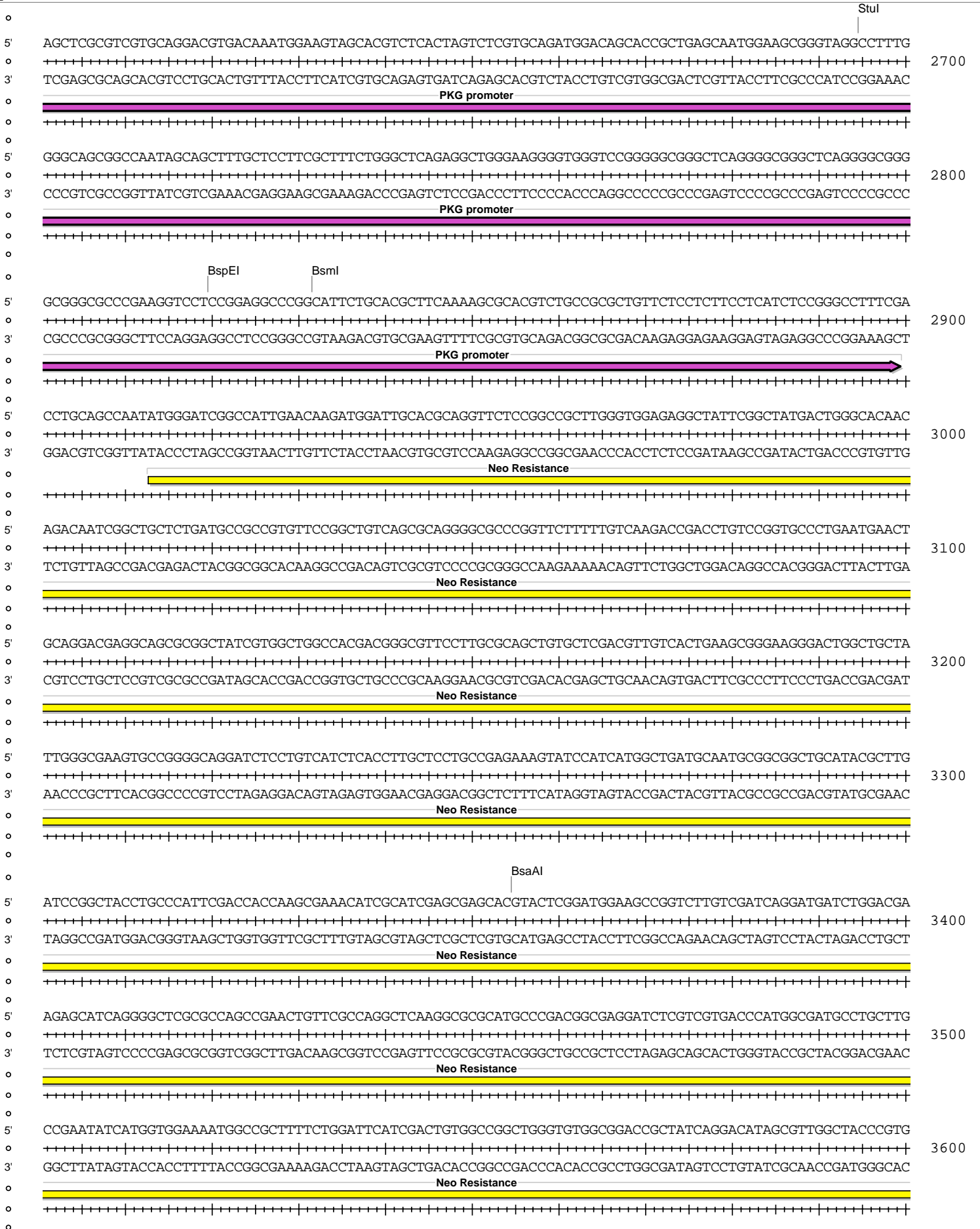
5' TGGAATCCGACCCCGTCAAGATATGTGGTCTGGTAGGAGACGAGAACCATAAACAGTTCGCCCTCCGTCTGAATTTTGTCTTTCGGTTTGAACCGAA
 900
 3' ACCTTAGGCTGGGGCAGTCTTATACACCAAGACCATCCTCTGCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGGCTT
 Pack Signal

5' GCCGCGCTCTGTCTGCTGCAGCGCTGCAGCATCGTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTTAC
 1000
 3' CGGCGCGCAGAACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTTTAATCCCGGTCTGACAATG
 Pack Signal



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5' ATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCTCTGTGCTTTACGGTATCGCGCTCCCGATTTCGAGCGCATCGCCTTCTATCGCCTTCT
 3' TATAACGACTTCTCGAACCGCCGCTTACCCGACTGGCGAAGGAGCACGAAATGCCATAGCGGCGAGGGCTAAGCGTTCGCGTAGCGGAAGATAGCGGAAGA
 Neo Resistance

5' TGACGAGTTCTTCTGAGGGGATCCGTCGACCTGCAGCCAAGCTTATCGATAAAAATAAAAAGATTTTATTTAGTCTCCAGAAAAAGGGGGAATGAAAGACC
 3' ACTGCTCAAGAAGACTCCCCTAGGCAGCTGGACGTCGGTTCGAATAGCTATTTTATTTTCTAAAATAAATCAGAGGTCTTTTCCCCCTTACTTTCTGG
 Neo Resistance

5' CCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGAAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTTAGGAACA
 3' GGTGGACATCAAACCGTTTCGATCGAATTCATTGCGGTA AAAACGTTCCGTACCTTTTATGTATTGACTCTTATCTCTTCAAGTCTAGTTCCAATCCTTGT
 3' pCMV LTR

5' GAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCCGCCC
 3' CTCTCTGTCTTTATACCCGTTTGTCTATAGACACCATTTCGTC AAGGACGGGGCCGAGTCCCGGTTCTGTCTACCAGGGGTCTACGCCAGGGCGGG
 3' pCMV LTR

5' TCAGCAGTTTCTAGAGAACCATCAGATGTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTCTCGC
 3' AGTCGTCAAAGATCTCTGGTAGTCTACAAAGTCCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAATCGATTGGTTAGTCAAGCGAAGAGCG
 3' pCMV LTR

5' TTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGCGCGCCAGTCCCTCCGATAGACTGCGTCCCGGGTACCCG
 3' AAGACAAGCGCGAAGACGAGGGGCTCGAGTTATTTCTCGGGTGTGGGGAGTGAGCCGCGCGGTGAGGAGGCTATCTGACGAGCGGGCCCATGGGC
 3' pCMV LTR

5' TGTATCCAATAAACCTCTTGAGTTGCATCCGACTTGTGGTCTCGTGTTCCTTGGGAGGGTCTCCTCTGAGTGATTGACTACCCGTGAGCGGGGTCT
 3' ACATAGGTTATTTGGGAGAACGTC AACCTAGGCTGAACACCAGAGCGACAAGGAACCTCCAGAGGAGACTCACTAATGATGGGCGAGTCGCCCCAGA
 3' pCMV LTR

5' TTCATGGGTAACAGTTTCTTGAAGTTGGAGAACAACATTTCTGAGGGTAGGAGTCAATATTAAGTAATCCTGACTCAATTAGCCACTGTTTGAATCCAC
 3' AAGTACCCATTGTCAAAGAACTTCAACCTCTTGTGTGAAGACTCCCATCCTCAGCTTATAAATCATTAGGACTGAGTTAATCGGTGACAAAACCTTAGGTG
 3'...R

5' ATACTCCAATACTCCTGAAATAGTTCAATATGGACAGCGCAGAAGAGCTGGGGAGAATAAATTCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTG
 3' TATGAGGTTATGAGGACTTTATCAAGTAATACCTGTGCGTCTTCTCGACCCCTTAAATTAAGCATTAGTACCAGTATCGACAAGGACACACTTTAAC

5' TTATCCGCTCACAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGC
 3' AATAGGCGAGTGTAAAGTGTGTGTATGCTCGCCTTCGTATTTACATTTTCGACCCACCGATTACTCACTCGATTGAGTGAATTAACGCAACGCG

5' TCACTGCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGGCGGTTGCGTATTGGGCGCTCTCCG
 3' AGTGACGGGCGAAAGTTCAGCCCTTTGGACAGCACGGTCGACGTAATTAATAGCCGTTGCGCGCCCTCTCCGCCAAACGCATAACCCGCGAGAAGGC

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5' CTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTTCGGCTGCGGGGAGCGGTATCAGCTCACTCAAAGCGGTAATACGGTTATCCACAGAATCAGGGGA
 4800
 3' GAAGGAGCGAGTGACTGAGCGACGCGAGCCAGCAAGCCGACGCCGCTCGCCATAGTCGAGTGAGTTTCCGCCATTATGCCAATAGGTGTCTTAGTCCCCT
 Pcil
 AfIII

5' TAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGAC
 4900
 3' ATTGCGTCCTTTCTTGACACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATTMTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTG

5' GAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCCTCTC
 5000
 3' CTCGTAGTGTMTTCTAGCTGCGAGTTCAGTCTCCACCGCTTTGGGTGTCTGATATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACGCGAGAG

5' CTGTTCCGACCTGCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGT
 5100
 3' GACAAGGCTGGGACGCGAATGGCTATGGACAGGCGGAAAGAGGAAGCCCTTCGCACCGGAAAGAGTATCGAGTGCACATCCATAGAGTCAAGCCA

5' GTAGTTCGTTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTA
 5200
 3' CATCCAGCAAGCGAGGTTTCGACCCGACACAGTGTCTGGGGGCAAGTCGGGCTGGCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCAT

5' AGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTCTTGAAGTGGTGGCCTAAC
 5300
 3' TCTGTGCTGAATAGCGGTGACCGTCTGCGGTGACCATTGTCTTAATCGTCTCGCTCCATACATCCGCCACGATGTCTCAAGAACTTCACCACCGGATTGA

5' ACGGCTACACTAGAAGGACAGTATTGGTATCTGCGCTCTGTGTAAGCCAGTTACCTTCGGA AAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCAC
 5400
 3' TGCCGATGTGATCTTCTGTCTATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTGGTTGGTG

5' CGCTGGTAGCGGTGGTTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCT
 5500
 3' GCGACCATCGCCACCAAAAAACAACGTTTCGTGCTAATGCGCGTCTTTTTTCTTAGAGTCTTTCTAGGAAACTAGAAAAGATGCCCCAGACTGCCA

5' CAGTGAACGAAAACCTCACGTTAAGGGATTTTGGTTCATGAGATTATCAAAAAGGATCTTACCTAGATCCTTTTAAATTA AAAATGAAGTTTAAATCAA
 5600
 3' GTCACCTTGCTTTTGAGTGCAATTCCCTAAAACAGTACTCTAATAGTTTTTCTTAGAAGTGGATCTAGGAAAATTTAATTTTTACTTCAAAAATTTAGTT

5' TCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCTGTTTCATCCATAGTTGC
 5700
 3' AGATTTTATATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATCAACG
 Amp res

5' CTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGAT
 5800
 3' GACTGAGGGGCGACATCTATTGATGCTATGCCCTCCGGAATGGTAGACCGGGTACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTA
 Amp res

5' TTATCAGCAATAAACAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCTCCATCCAGTCTATTAATTTGTTGCCGGGAAGCTA
 5900
 3' AATAGTCGTTATTTGGTTCGGTTCGGCTTCCCGGCTCGGCTCTTACCAGGACGTTGAAATAGGCGGAGGTAGGTGAGATAAATTAACAACGCCCTTCGAT
 Amp res

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5' GAGTAAGTAGTTTCGCCAGTTAATAGTTTTCGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCCAGCTCGTCTGTTGGTATGGCTTCATTTCAGCTC
 6000
 3' CTCATTTCATCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTGCAGCAGCAAACCATAACCGAAGTAAGTCGAG
 Amp res

5' CGGTTCCEAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAGCGGTTAGCTCCTTCGGTCCCGATCGTTGTCAGAAGTAAGTTGGCC
 6100
 3' GCCAAGGGTTGCTAGTTCCGCTCAATGTACTAGGGGTACAACACGTTTTTTTCGCCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTCAACCGG
 Amp res

5' GCAGTGTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTATGCCATCCGTAAGATGCTTTTTCTGTGACTGGTGGTACTCAACCAAGT
 6200
 3' CGTCACAATAGTGAGTACCAATACCGTCTGACGTATTAAGAGAATGACAGTACGGTAGGCATTTCTACGAAAAGACTGACCCTCATGAGTTGGTTCA
 Amp res
 Scal

5' CATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCAT
 6300
 3' GTAAGACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCGCAGTTATGCCCTATTATGGCGGGTGTATCGTCTTGAAATTTTCACGAGTAGTA
 Amp res

5' TGGAAAACGTTCTTCGGGGCGAAAACCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCT
 6400
 3' ACCTTTTGCAAGAAGCCCGCTTTTGAGAGTTCCTAGAATGGCGACAACCTTAGGTCAAGCTACATTGGGTGAGCACGTGGGTTGACTAGAAAGTCGTAGA
 Amp res

5' TTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCT
 6500
 3' AAATGAAAGTGGTCGCAAAGACCCACTCGTTTTTGTCTTCCGTTTTTACGGCGTTTTTCCCTTATTCCCGCTGTCCTTTACAACCTATGAGTATGAGA
 Amp res

5' TCCTTTTTCAATATTATGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAACAAATAGGGGTTCCGCG
 6600
 3' AGGAAAAAGTTATAATAACTTCGTAATAAGTCCCAATAACAGAGTACTCGCTATGTATAAACTTACATAAATCTTTTTATTTGTTTATCCCAAGGCGC
 Amp res

5' CACATTTCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAAATAGGCGTATCAGGAGCCCTTTCGTCTCGCG
 6700
 3' GTGTAAAGGGGCTTTTCACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTGTAATTGGATATTTTATCCGCATAGTGCTCCGGGAAAGCAGAGCGC
 Amp res

5' CGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGG
 6800
 3' GCAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTGAGGGCTCTGCCAGTGTGCAACAGACATTGCGCTACGGCCCTCGTCTGTTTCGGGCAGTCC
 Amp res

5' GCGCGTCAGCGGGTGTGGCGGGTGTGCGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTAAGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCA
 6900
 3' CGCGCAGTCGCCACAACCGCCACAGCCCGACCGAATTGATACCCGTAGTCTCGTCTAACATGACTCTCACGTGGTATACGCCACACTTTATGGCGT
 Amp res

5' CAGATGCGTAAGGAGAAAATACCGCATCAGGCGCCATTCCGCCATTGAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCTCTTCGCTATTACGC
 7000
 3' GTCTACGCATTCCTCTTTTATGGCGTAGTCCGCGGTAAGCGGTAAGTCCGACGCGTTGACAACCCTTCCCGCTAGCCACGCCCGGAGAAGCGATAATGCG
 Amp res
 Ndel

