

## pMSCV-Puro-GFP miR-155

Absent Sites	0	AbsI,AccI,AjuI,AjuI',AlfI,AlfI',ApaI,AsiSI,AvrII,BamHI,BarI,BarI',BbsI,BclI,BplI,BpII',BsaAI,BsaBI,BstBI,BstXI,BstZ17I,CspCI,CspCI',FseI,FspAI,HincII,HpaI,MauBI,MfeI,MluI,MreI,NruI,PacI,PfiMI,PmeI,PmlI,PshAI,PspOMI,PspXI,Psrl,Psrl',Sall,SanDI,SbfI,Sfil,SgrDI,SnaBI,SrfI,Swal,XcmI,XhoI
AarI	1	2211
AflIII	1	4786
ArsI	1	1732
ArsI'	1	1700
BglIII	1	1411
BplI	1	2816
BsiWI	1	3119
BtgZI	1	1559
Clal	1	3717
DraIII	1	3634
EcoRI	1	2533
HindIII	1	3054
NcoI	1	1436
NdeI	1	6850
NotI	1	2158
NsiI	1	3716
PciI	1	4786
PsiI	1	2181
RsrII	1	3179
SacII	1	3277
Scal	1	6159
SgrAI	1	7222

pMSCV-Puro-GFP miR-155

5' TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGAAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGG  
 100  
 3' ACTTCTGGGGTGGACATCCAAACCGTTCGATCGAATTCATTGCGGTAACAGTTCCTGACCTTTTATGTATTGACTCTTATCTCTTCAAGTCTAGTTCC  
 5' pCMV LTR

5' TTAGGAACAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCG  
 200  
 3' AATCCTTGTCTCTCTGTGCTTATACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCCGGTTCTTGTCTACCAGGGGTCTACGC  
 5' pCMV LTR

5' GTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTC  
 300  
 3' CAGGGCCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAG  
 5' pCMV LTR

5' GCTTCTCGTCTCTGTTCGCGCCTTCTGCTCCCCGAGCTCAATAAAAAGAGCCACAAACCCCTCACTCGGCGCGCAGTCTCCGATAGACTGCGTCCCC  
 400  
 3' CGAAGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTATTTTCTCGGGTGTGGGGAGTGAGCCGCGCGGTGAGGAGGCTATCTGACGCAGCGGG  
 5' pCMV LTR

5' GGGTACCCGTATTCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGACTCGCTGATCCTTGGGAGGGTCTCCTCAGATTGATTGACTGCCACCT  
 500  
 3' CCCATGGGCATAAGGGTTATTTTCGGAGAACGACAAACGTAGGCTTAGCACCTGAGCGACTAGGAACCCCTCCAGAGGAGTCTAACTAACTGACGGGTGGA  
 5' pCMV LTR

5' CGGGGTCTTTTCAATTTGGAGGTTCCACCGAGATTGGAGACCCCTGCCAGGGACCACCGACCCCCCGCGGGAGGTAAGCTGGCCAGCGGTCTGTTTCG  
 600  
 3' GCCCCAGAAAGTAAACCTCCAAGGTGGCTCTAAACCTCTGGGGACGGGTCCCTGTTGGCTGGGGGGCGGCCCTCCATTCGACCGGTGCGCAGCAAAGC  
 5' pCMV LTR

Pack Signal

5' TGTCTGTCTCTGTCTTGTGCGTGTGTGCGCCGATCTAATGTTTGGCCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGG  
 700  
 3' ACAGACAGAGACAGAAACACGCACAAACACGGCCGTAGATTACAAACCGCGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCTGGGCACC  
 Pack Signal

5' TGGAATGACGAGTTCTGAACACCCGGCCGCAACCTGGGAGACGTCCCAGGGACTTTGGGGCCGTTTGTGGCCCGACCTGAGGAAGGGAGTCGATG  
 800  
 3' ACCTTGACTGCTCAAGACTTGTGGGCCGGCGTTGGGACCTCTGCAGGGTCCCTGAAACCCCGGCAAAAACACCGGGCTGGACTCCTTCCTCAGCTAC  
 Pack Signal

5' TGGAATCCGACCCCGTCAGGATATGTGGTTCTGGTAGGAGACGAGAACC'TAAACAGTTCCCGCCTCCGTCTGAATTTTGTCTTTCGGTTTGAACCGAA  
 900  
 3' ACCTTAGGCTGGGGCAGTCTATACACCAAGACCATCCTCTGCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGGCTT  
 Pack Signal

5' GCCGCGCTCTGTCTGCTGCAGCGCTGCAGCATCGTTCGTGTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTAC  
 1000  
 3' CGGCGCGCAGAACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTTTAATCCCGGTCTGACAATG  
 Pack Signal

pMSCV-Puro-GFP miR-155

5' CACTCCCTTAAGTTTGACCTTAGGTCAGTGGAAAGATGTCGAGCGGATCGCTCACACCAGTCGGTAGATGTCAAGAAGAGACGTTGGGTTACCTTCTGC  
 1100  
 3' GTGAGGGAATTCAAACTGGAATCCAGTGACCTTTCTACAGCTCGCCTAGCGAGTGTGGTCAGCCATCTACAGTTCTTCTCTGCAACCCAATGGAAGACG  
 Pack Signal

5' TCTGCAGAATGGCCAACCTTTAACGTCGGATGGCCGCGAGACGGCACCTTTAACCGAGACCTCATCACCAGGTTAAGATCAAGGTCTTTTACCTGGCC  
 1200  
 3' AGACGTCTTACCGGTTGGAAATTCAGCCTACCGGCGCTCTGCCGTGGAAATTTGGCTCTGGAGTAGTGGGTCCAATTCTAGTTCAGAAAAGTGGACCGG  
 Pack Signal

5' CGCATGGACACCCAGACCAGGTCCTTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCCCTCCCTGGGTCAAGCCCTTTGTACACCTAAGCCTCC  
 1300  
 3' GCGTACCTGTGGGTCTGGTCCAGGGGATGTAGCACTGGACCTTCGGAACCGAAACTGGGGGAGGGACCCAGTTCGGGAAACATGTGGGATTCGGAGG  
 Pack Signal

5' GCCTCTCTTCTCCATCCGCCCCGTCTCTCCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACTCCTTCTTAGGC  
 1400  
 3' CGGAGGAGAAGGAGGTAGGCGGGGCGAGAGGGGAACTTGGAGGAGCAAGCTGGGGCGGAGCTAGGAGGAAATAGGTGGGAGTGAGGAAGAGATCCG  
 Pack Signal

BglII NcoI  
 5' GCCGGAATTAGATCTccagcgtgaccggtgcccaccatggtgagcaagggcgaggagctgttcaccggggtggtgcccatcctggtcgagctggacggcg  
 1500  
 3' CGGCCTTAATCTAGAggtcgactggccagcgtggtaccactcgttcccgtcctcgacaagtggccccaccacgggtaggaccagctcgacctgccgc  
 Pa...I GFP

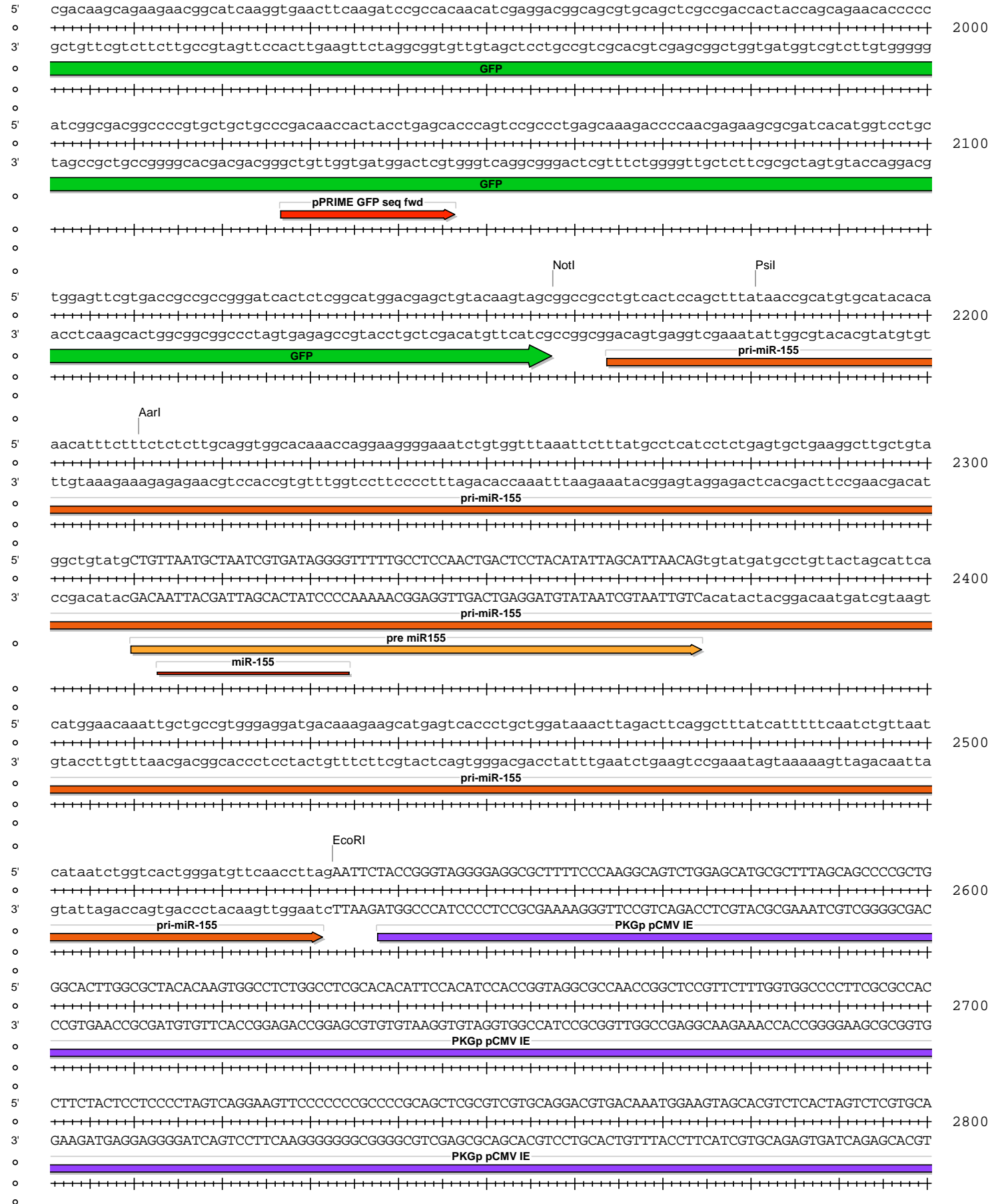
BtgZI  
 5' acgtaaacggccacaagttcagcgtgtccggcgagggcgagggcgatgccacctacggcaagctgacctgaagttcatctgcaccaccggcaagctgcc  
 1600  
 3' tgcatttgcgggtgttcaagtcgcacaggccgctcccgtcccgtacggtggatgcccgttcgactgggacttcaagtagacgtggtggccgttcgacgg  
 GFP

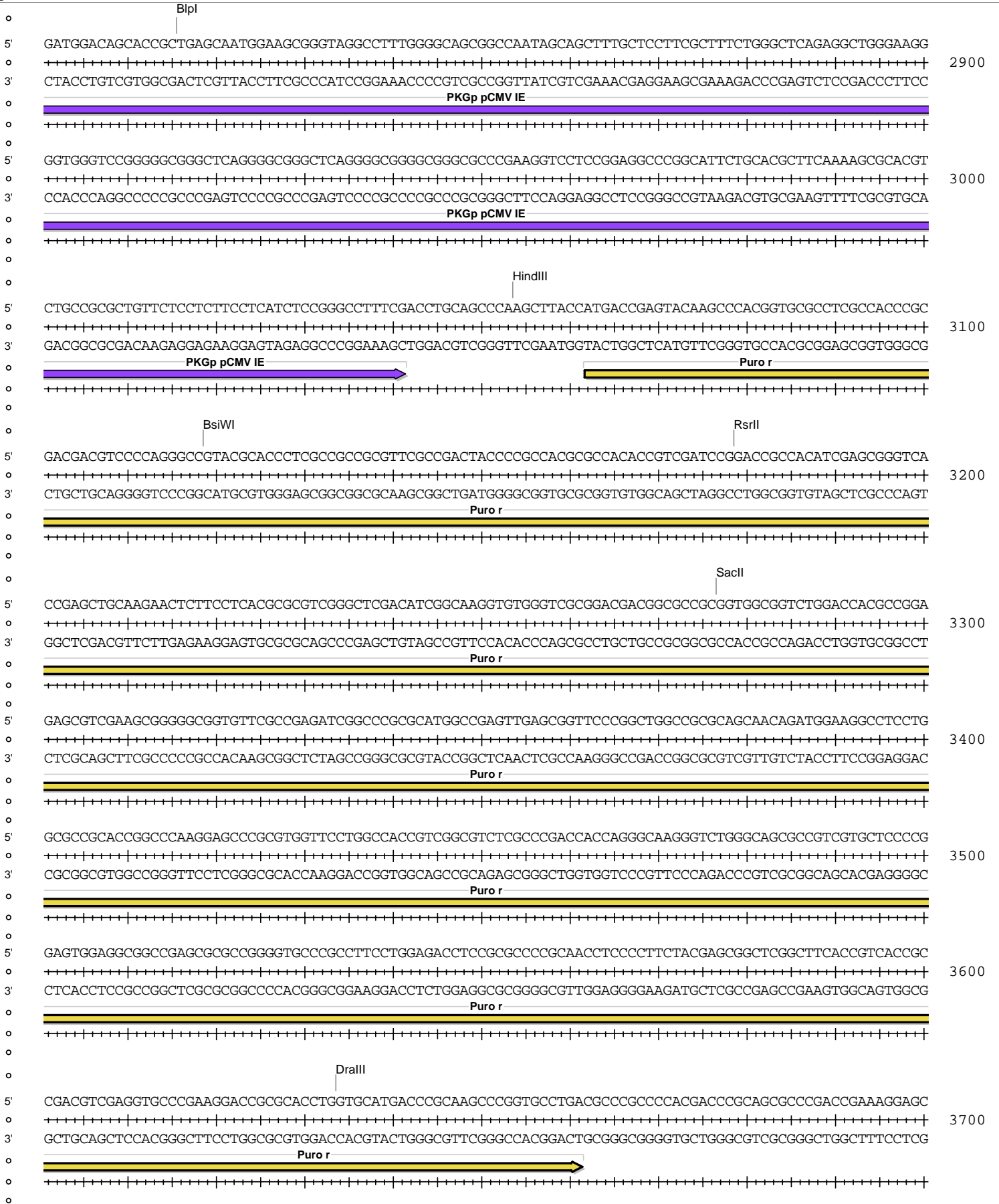
ArsI  
 5' cgtgcctggccaccctcgtgaccaccctgacctacggcgtgacgtgcttcagccgtaccccgaccacatgaagcagcagacttcttcaagtccgcc  
 1700  
 3' gcacgggaccgggtgggagcactggtgggactggatgcccacgtcacgaagtccgcatggggctggtgtacttcgtcgtgctgaagaagttcaggcgg  
 GFP

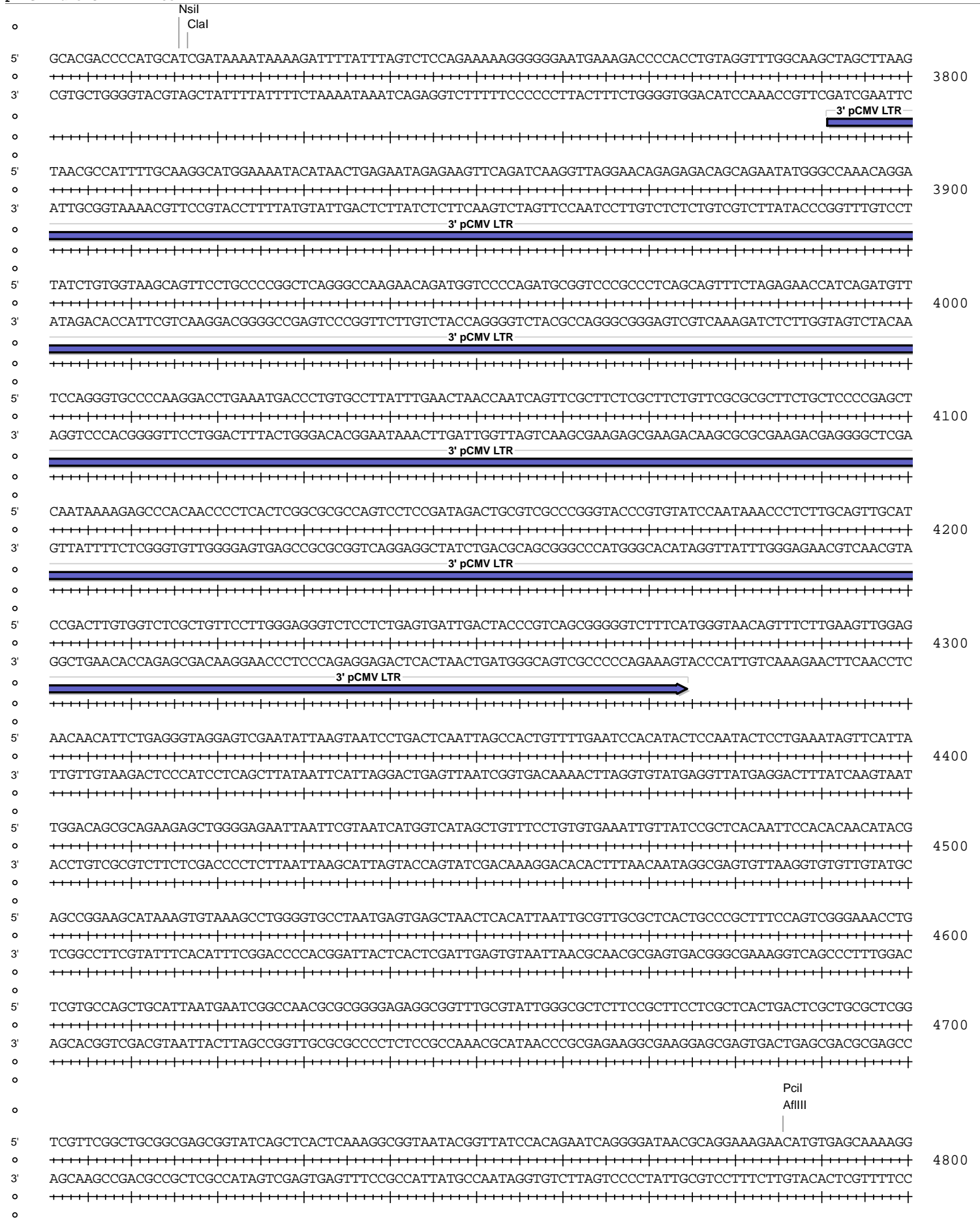
ArsI  
 5' atgcccgaaggctacgtccaggagcgcaccatcttcttcaaggacgacggcaactacaagaccgcccggaggtgaagttcgagggcgacaccctggtga  
 1800  
 3' tacgggcttccgatgcaggtcctcgcgtggtagaagaagttcctgctgcccgtgatgttctgggcgcggtccacttcaagctcccgtgtgggaccact  
 GFP

5' accgcatcgagctgaagggcatcgacttcaaggaggacggcaacatcctggggcacaagctggagtacaactacaacagccacaacgtctatatcatggc  
 1900  
 3' tggcgtagctcgacttcccgtagctgaagttcctcctgcccgtttaggaccccgtgttcgacctcatgtgatgttgcggtgtgcagatatagtaccg  
 GFP

pMSCV-Puro-GFP miR-155







pMSCV-Puro-GFP miR-155

5' CCAGCAAAAGGCCAGGAACCGTAAAAAGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAG  
 4900  
 3' GGTCGTTTTCCGGTCTTGGCATTTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTAGCTGCGAGTTCAGTC

5' AGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCGACCCCTGCCGTTACCGGATACC  
 5000  
 3' TCCACCCTTTGGGCTGTCTGATATTTCTATGGTCCGCAAAGGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGG

5' TGTCCGCTTTCTCCCTTCGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCCGCTCAAGCTGGGCTGTGT  
 5100  
 3' ACAGCGGAAAGAGGGGAGCCCTTCGCACCGCGAAAGATATCGAGTGCACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGTTCGACCCGACACA

5' GCACGAACCCCGTTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCC  
 5200  
 3' CGTGCTTGGGGGCAAGTCGGGCTGGCGACGCGGAATAGGCCATTGATAGCAGAAGTTCAGGTTGGGCCATTCTGTGCTGAATAGCGGTGACCGTCGTCGG

5' ACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTA  
 5300  
 3' TGACCATTGTCTAATCGTCTCGCTCCATACATCCGCCACGATGTCTCAAGAACTTCACCACCGGATTGATGCCGATGTGATCTTCTGTATAAACCAT

5' TCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAA  
 5400  
 3' AGACCGGAGACGACTTCGGTCAATGGAAGCCTTTTCTCAACCATCGAGAACTAGGCCGTTTGTGGTGGCGACCATCGCCACCAAAAAACAACGTT

5' GCAGCAGATTACGCGCAGAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACCTCACGTTAAGGGATT  
 5500  
 3' CGTCGTCTAATGCGCGTCTTTTCTTAGAGTCTTCTAGGAACTAGAAAAGATGCCCCAGACTGCGAGTACCTTGCTTTTGTAGTGAATTCCCTAA

5' TTGGTCATGAGATTATCAAAAAGGATCTCACCTAGATCCTTTTAAATTA AAAATGAAGTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTG  
 5600  
 3' AACCAGTACTCTAATAGTTTTTCTTAGAAGTGGATCTAGGAAAATTAATTTTACTTCAAATTTAGTTAGATTTTATATATACTCATTTGAACCAGAC

5' ACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCCATAGTTGCCTGACTCCCGTCGTTAGATAAACTACGAT  
 5700  
 3' TGTCATGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGAGGGGCAGCACATCTATTGATGCTA  
 Amp Res

5' ACGGGAGGGCTTACCATCTGGCCCGAGTGTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACAGCCAGCCGCGGAAGG  
 5800  
 3' TGCCCTCCCGAATGGTAGACCGGGTACGACGTTACTATGGCGTCTGGGTGCGAGTGGCCGAGGTCTAAATAGTCGTTATTTGGTTCGGTTCGGCCTTCC  
 Amp Res

5' GCCGAGCGCAGAAGTGGTCTTCAACTTTATCCGCTCCATCCAGTCTATTAATTGTTGCCGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGC  
 5900  
 3' CGGCTCGCGTCTTACCAGGACGTTGAAATAGGCGGAGGTAGGTAGATAAATAACAACGGCCCTTCGATCTCATTTCATCAAGCGGTCAATTATCAAACG  
 Amp Res

5' GCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTTGGTATGGCTTCATTTCAGCTCCGGTTCCTCAACGATCAAGGCGAGTTACATG  
 6000  
 3' CGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTGCAGACGAAACCATAACGAAAGTAAAGTCGAGGCCAAGGGTTGCTAGTTCCGCTCAATGTAC  
 Amp Res





