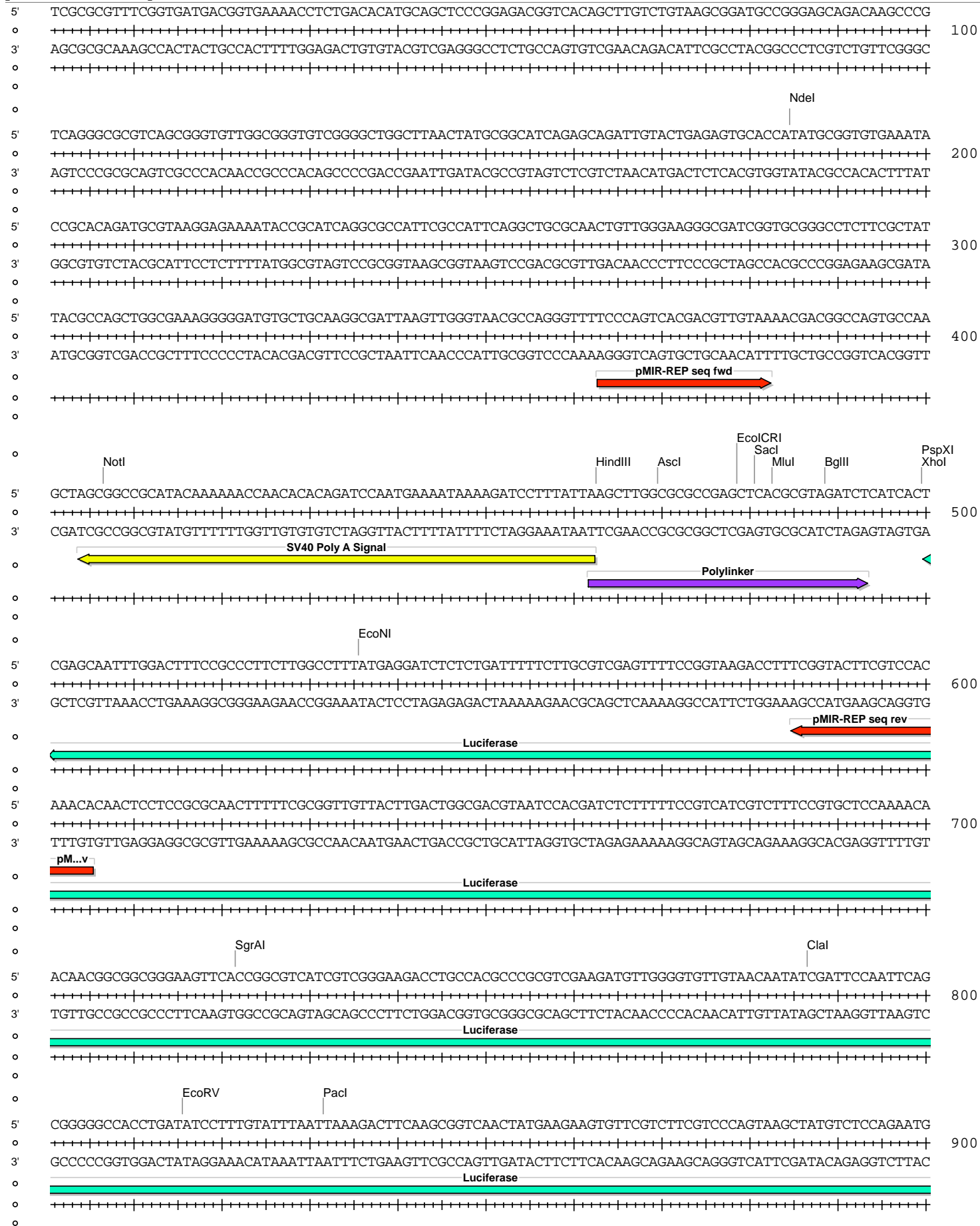
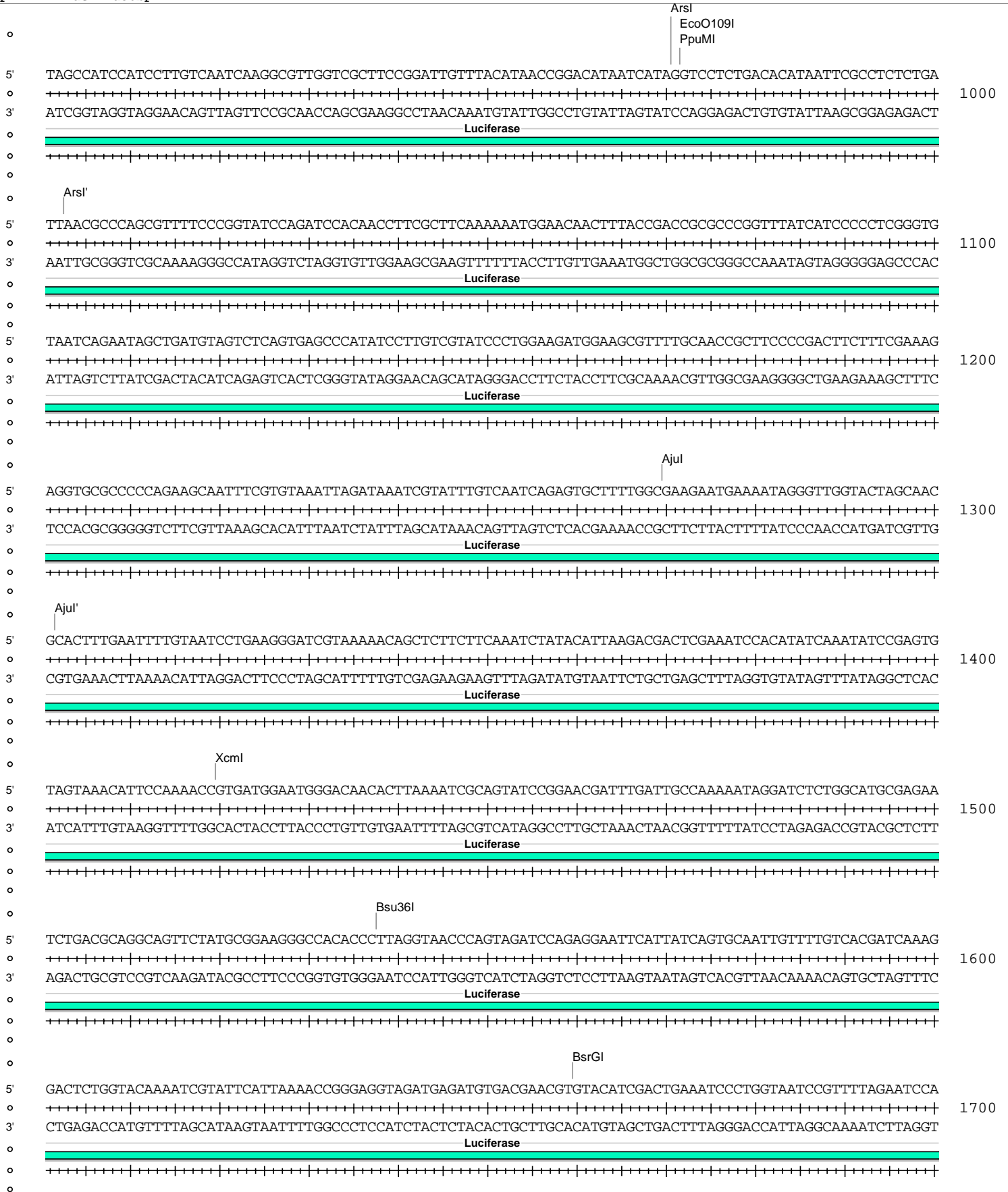


pMIR-REP-dCMV-d50bp

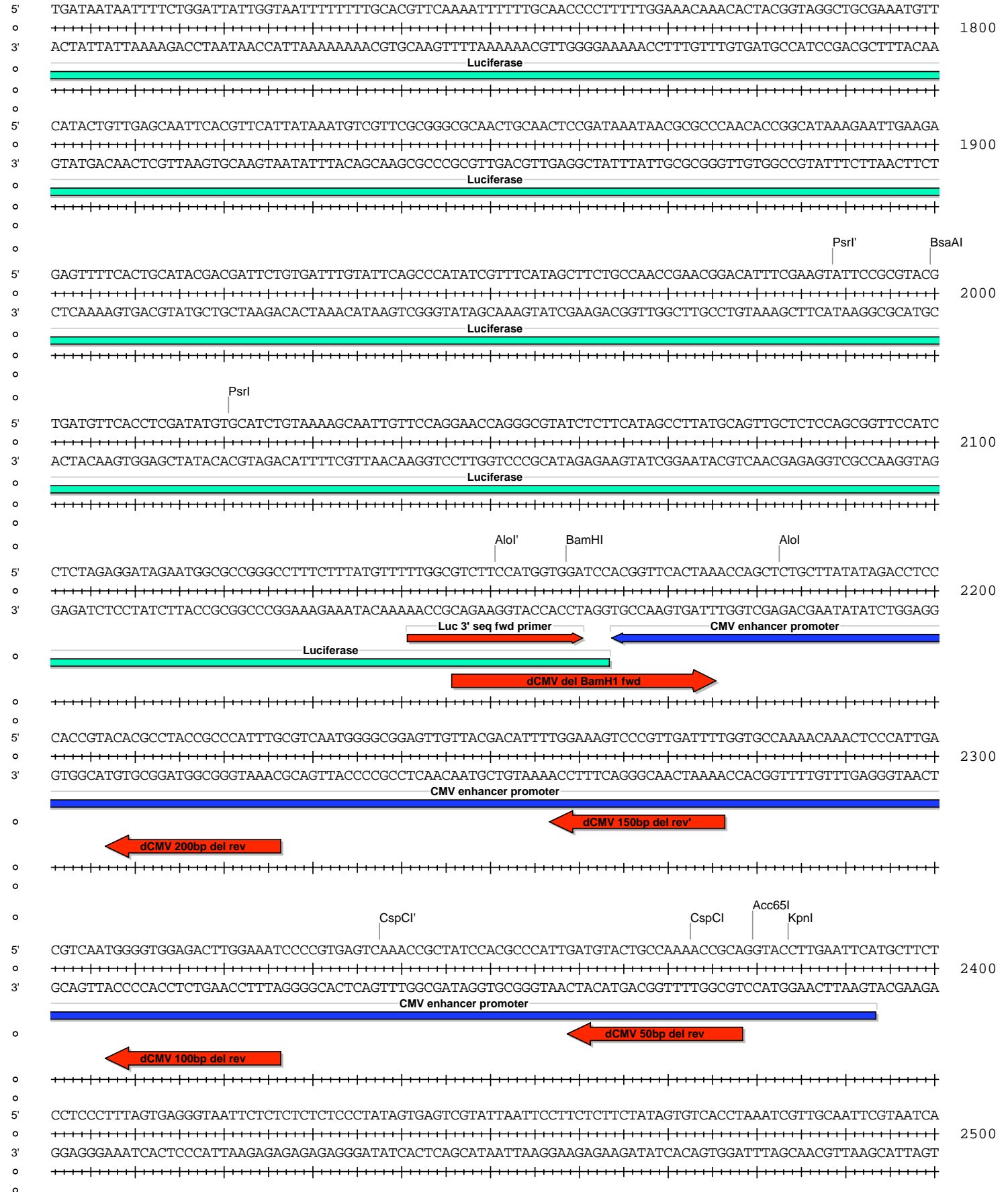
Absent Sites	0	AarI,AbstI,AfeI,AfII,AleI,Apal,AsiSI,BaeI,BaeI',BarI,BarI',BbvCI,BclI,BlpI,BmgBI,Bpu10I,BsgI,BstXI,BstZ17I,BtgZI,Fall,Fall',FseI,FspAI,MauBI,MreI,NaeI,NgoMIV,NruI,PasI,PfIIMI,PmeI,PmlI,PshAI,PspOMI,SanDI,SgrDI,SnaBI,SpeI,SrfI,Swal
Acc65I	1	2380 (6050)
Accl	1	5515 (6050)
AgeI	1	5683 (6050)
AhdI	1	3737 (6050)
AjuI	1	1270 (6050)
AjuI'	1	1302 (6050)
Alol	1	2183 (6050)
Alol'	1	2151 (6050)
AlwNI	1	3260 (6050)
Arsl	1	971 (6050)
Arsl'	1	1003 (6050)
Ascl	1	470 (6050)
AvrII	1	5734 (6050)
BamHI	1	2159 (6050)
BglII	1	489 (6050)
BsaAI	1	2000 (6050)
BsaBI	1	4899 (6050)
BsmI	1	4812 (6050)
BsrGI	1	1660 (6050)
Bsu36I	1	1538 (6050)
ClaI	1	787 (6050)
CspCI	1	2373 (6050)
CspCI'	1	2338 (6050)
DraIII	1	5058 (6050)
EcoICRI	1	479 (6050)
EcoNI	1	536 (6050)
EcoO109I	1	972 (6050)
EcoRV	1	816 (6050)
HindIII	1	463 (6050)
HpaI	1	4798 (6050)
KpnI	1	2384 (6050)
MluI	1	483 (6050)
MscI	1	5251 (6050)
NdeI	1	185 (6050)
NotI	1	407 (6050)
PacI	1	832 (6050)
PciI	1	2844 (6050)
PpuMI	1	972 (6050)
PspXI	1	500 (6050)
Psrl	1	2021 (6050)
Psrl'	1	1989 (6050)
PstI	1	5706 (6050)
RsrII	1	5507 (6050)
SacI	1	481 (6050)
SacII	1	5414 (6050)
Sall	1	5514 (6050)
SbfI	1	5706 (6050)
Scal	1	4217 (6050)
SfiI	1	5788 (6050)
SgrAI	1	722 (6050)
SspI	1	4541 (6050)
Tth111I	1	5583 (6050)
XcmI	1	1420 (6050)
XhoI	1	500 (6050)
XmnI	1	4336 (6050)

pMIR-REP-dCMV-d50bp





pMIR-REP-dCMV-d50bp



pMIR-REP-dCMV-d50bp

5' TGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCACACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGT 2600
 3' ACAGTATCGACAAAGGACACACTTTAACAAATAGGCGAGTGTAAAGGTGTGTTGTATGCTCGGCCTTCGTATTTACATTTTCGGACCCACGGATTACTCA

5' GAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTCCAGTCGGGAAACCTGTCTGTCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGA 2700
 3' CTCGATTGAGTGTAAATTAACGCAACGCGAGTGACGGGGCAAAGGTGAGCCCTTTGGACAGCAGGTCGACGTAATTACTTAGCCGTTGCGCGCCCTCT

5' GGCGGTTTGCATATTGGGCGCTCTCCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGG 2800
 3' CCGCCAAACGCATAACCCGCGAGAAGGCGAAGGAGCGAGTACTGAGCGACGCGAGCCAGCAAGCCGACGCCGCTCGCCATAGTCGAGTGAGTTTCCGCC

ColE1 origin

PciI

5' TAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGC 2900
 3' ATTATGCCAATAGGTGTCTTAGTCCCTATTGCGTCTTCTTGTACACTCGTTTTCCGGTCGTTTTCCGGTCTTGGCATTTTCCGGCGCAACGACCG

ColE1 origin

5' GTTTTTCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTT 3000
 3' CAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTAGCTGCGAGTTTCAGTCTCCACCGCTTTGGGCTGTCTGATATTTCTATGGTCCGCAAA

ColE1 origin

5' CCCCCTGGAAGCTCCCTCGTGCCTCTCCTGTTCCGACCTGCCGCTTACCGGATACCTGTCCGCTTCTCTCCCTTCGGGAAGCGTGCGCTTTCTCATA 3100
 3' GGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCAATGGCCTATGGACAGGCGAAAGAGGGAAGCCCTTCGCACCCGAAAGAGTAT

ColE1 origin

5' GCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTTCCGCTCCAAGCTGGGCTGTGTGCACGAACCCCGTTCAGCCCGACCGCTGCGCTTATCCGG 3200
 3' CGAGTGCACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGGTTTCGACCCGACACAGTGTCTGGGGGGCAAGTCCGGCTGGCGACGCGGAATAGGCC

ColE1 origin

AlwNI

5' TAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCT 3300
 3' ATTGATAGCAGAACTCAGGTTGGGCCATCTGTGCTGAATAGCGGTGACCGTCGTCGGTGACCATTTGTCTAATCGTCTCGCTCCATACATCCGCCACGA

ColE1 origin

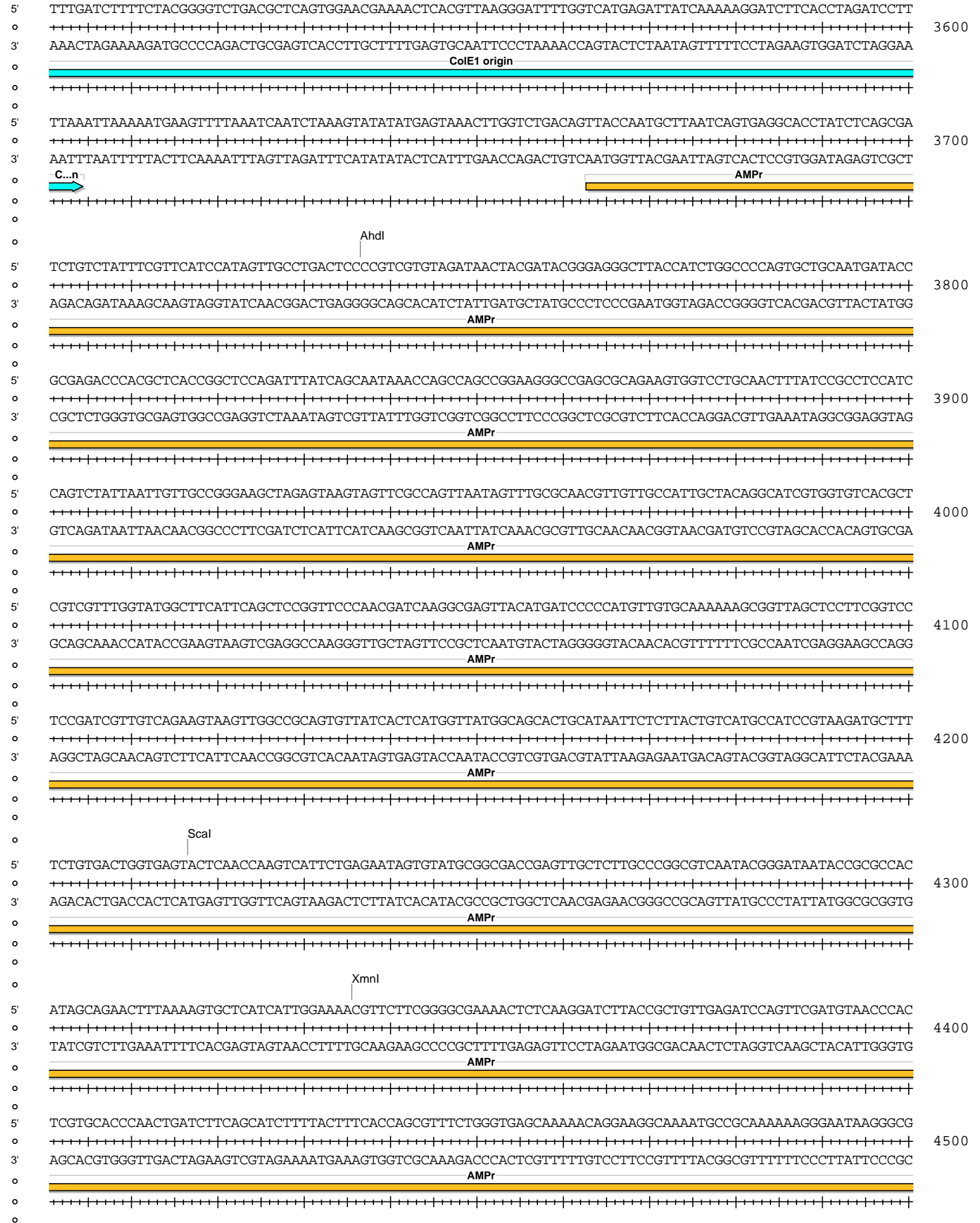
5' ACAGAGTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTG 3400
 3' TGCTCAAGAACTTACCACCGGATTGATGCCGATGTGATCTTCTTGTGTCATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTCTCAAC

ColE1 origin

5' GTAGCTCTTGATCCGGCAAAAAACACCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCC 3500
 3' CATCGAAGAACTAGGCCGTTTTTTTGGTGGCGACCATCGCCACCAAAAAACAACGTTTCGTCGTCTAATGCGCGTCTTTTTTCTTAGAGTTCTTCTAGG

ColE1 origin

pMIR-REP-dCMV-d50bp



SspI

5' ACACGGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTATGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTT 4600
+ + + + +
3' TGTGCCTTTTACAACCTTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAA

AMP^r

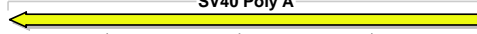


5' AGAAAAATAAACAAATAGGGGTTCGCGCACATTTCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATATCATGACATTAACCTATAAAAAATAG 4700
+ + + + +
3' TCTTTTATTTGTTTTATCCCAAGGCGCGTGTAAGGGGCTTTTACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTGTAATTGGATATTTTATC

HpaI

5' GCGTATCACGAGATTGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTGATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAAC 4800
+ + + + +
3' CGCATAGTGCTCTAACGTCACCTTTTTTACGAAATAAACACTTTTAAACACTACGATAACGAAATAAACATTGGTAATATTCGACGTTATTTGTTC AATTG

SV40 Poly A



BsmI

BsaBI

5' AACAACAATTGCATTCATTTTATGTTTCAGGTTTCAGGGGAGGTGTGGGAGGTTTTTTAAAGCAAGTAAAACCTCTACAAATGTGGTATGGCTGATTATG 4900
+ + + + +
3' TTGTTGTTAAAGTAAATAACAAAGTCCAAGTCCCCCTCCACACCCTCCAAAAAATTCGTTTCATTTTGGAGATGTTTACACCATAACGACTAATAC

5' ATCCTCTAGAGTCGGTGGGCCTCGGGGCGGGTTCGGGGTTCGGCCGGGCGCCCGGGTGGCTTCGGTTCGGAGCCATGGGGTCGTGCGCTCCTTTCGGTC 5000
+ + + + +
3' TAGGAGATCTCAGCCACCCGGAGCCCCGCCCACGCCCCAGCCGCCCCGGCGGGGCCACCGAAGCCAGCCTCGGTACCCAGCACGCGAGGAAAGCCAG

DrallI

5' GGGCGCTGCGGGTCGTGGGGCGGGCTCAGGCACCGGGCTTGCGGGTCATGCACCAGGTGCGCGGTCCTTCGGGCACCTCGACGTCGGCGGTGACGGTGA 5100
+ + + + +
3' CCCGCGACGCCAGCACCCCGCCGAGTCCGTGGCCGAACGCCAGTACGTGGTCCACGCGCCAGGAAGCCCGTGGAGCTGCAGCCGCCACTGCCACT

Puromycin resistance



5' AGCCGAGCCGCTCGTAGAAGGGAGGTTGCGGGGCGGGAGGTCTCCAGGAAGCGGGCACCCCGGCGCTCGGCCGCTCCACTCCGGGGAGCACGAC 5200
+ + + + +
3' TCGGCTCGGCAGCATCTTCCCTCCAACGCCCGCGCTCCAGAGGTCTTCCGCCCGTGGGGCCGCGAGCCGGCGGAGGTGAGGCCCTCGTGCTG

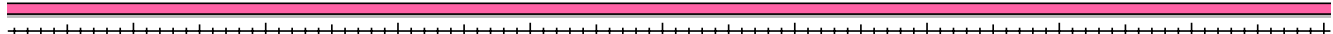
Puromycin resistance



MscI

5' GGCGCTGCCAGACCTTGCCCTGGTGGTTCGGGCGAGACGCCAGGTGGCCAGGAACCACGCGGGCTCCTTGGGCCGGTTCGGCGCCAGGAGGCCTTCC 5300
+ + + + +
3' CCGCGACGGGTCTGGGAACGGGACCACCAGCCCGCTCTGCGGCTGCCACCGGTCTTGGTGCGCCCGAGGAACCAGCCAGCCGCGGTCTCCGGAAGG

Puromycin resistance



5' ATCTGTTGCTGCGCGCCAGCCGGGAACCGCTCAACTCGGCCATGCGCGGGCCGATCTCGGCGAACCCGCCCGCTTCGACGCTCTCCGGCGTGGTCC 5400
+ + + + +
3' TAGACAACGACGCGCCGGTTCGGCCCTTGGCGAGTTGAGCCGGTACGCGCCGGCTAGAGCCGCTTGTGGCGGGGCGAAGCTGCGAGAGGCCGACCAGG

Puromycin resistance



