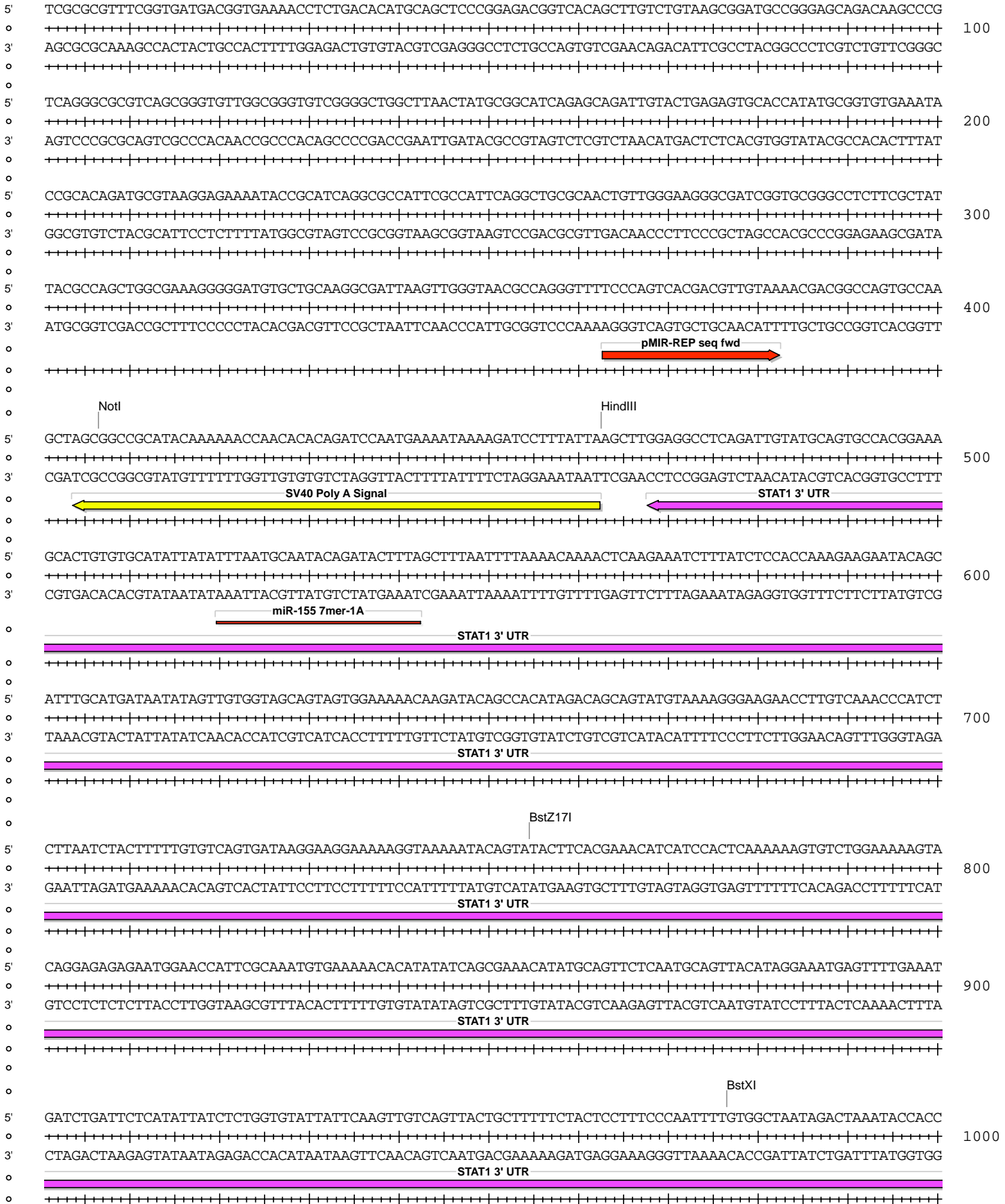


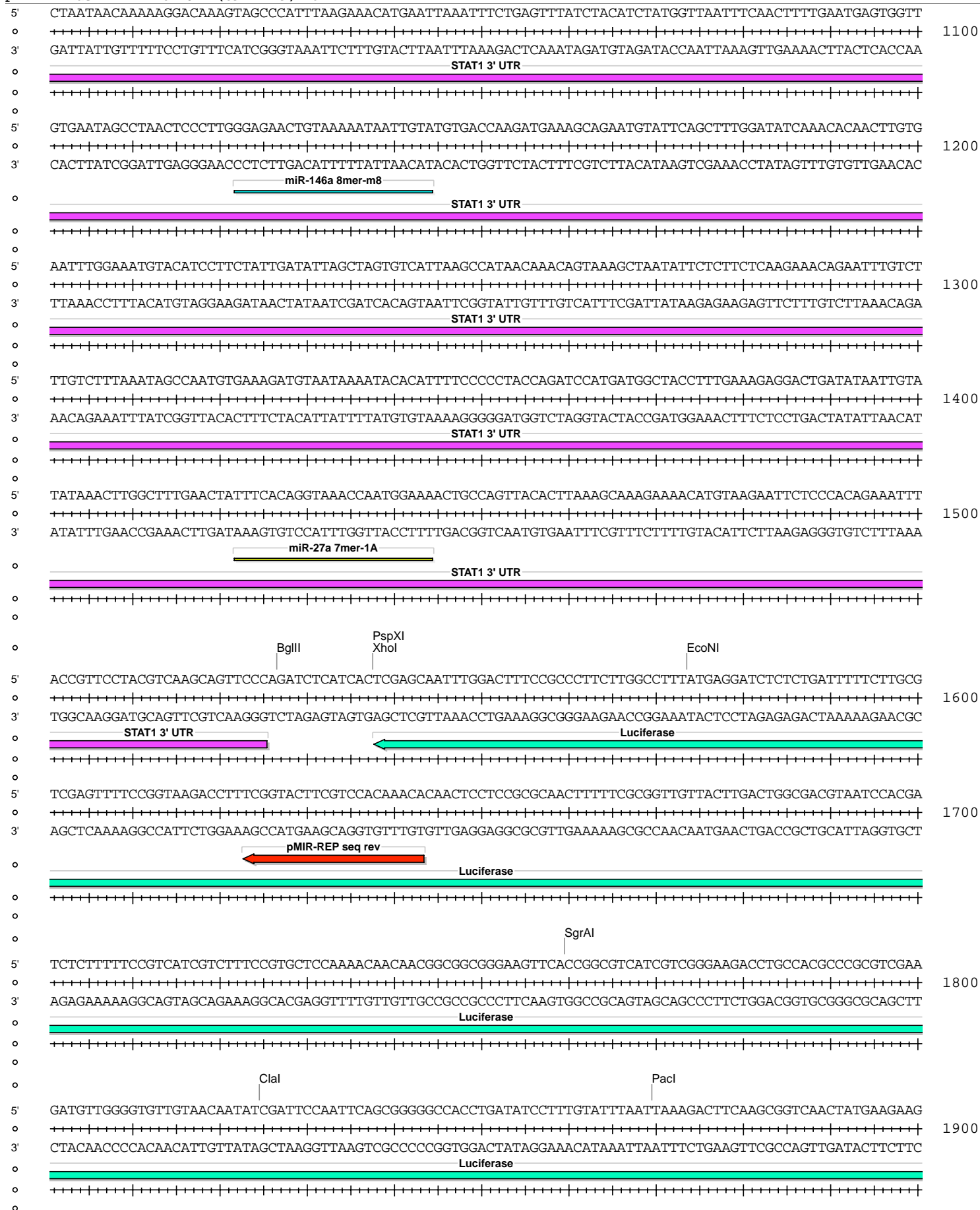
pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt

Absent Sites	0	AarI, AbsI, AfeI, AfIII, AleI, ApaI, AscI, AsiSI, BaeI, BaeI', BarI, BarI', BbvCI, BclI, BlnI, BmgBI, Bpu10I, BsgI, EcoICRI, Fall, Fall', FseI, FspAI, MauBI, MluI, MreI, NaeI, NgoMIV, NruI, PaeI, PflMI, PmeI, PmlI, PshAI, PspOMI, SacI, SanDI, SgrDI, SpeI, SrfI, SwaI
Acc65I	1	3462 (7132)
AgeI	1	6765 (7132)
AhdI	1	4819 (7132)
AjuI	1	2308 (7132)
AjuI'	1	2340 (7132)
Alol	1	3221 (7132)
Alol'	1	3189 (7132)
Arsl	1	2009 (7132)
Arsl'	1	2041 (7132)
AvrII	1	6816 (7132)
BamHI	1	3197 (7132)
BglII	1	1527 (7132)
BsaBI	1	5981 (7132)
BsmI	1	5894 (7132)
BssHII	1	6249 (7132)
BstXI	1	977 (7132)
BstZ17I	1	755 (7132)
Bsu36I	1	2576 (7132)
BtgZI	1	3447 (7132)
ClaI	1	1825 (7132)
CspCI	1	3411 (7132)
CspCI'	1	3376 (7132)
EcoNI	1	1574 (7132)
EcoO109I	1	2010 (7132)
HindIII	1	463 (7132)
HpaI	1	5880 (7132)
KpnI	1	3466 (7132)
MscI	1	6333 (7132)
NotI	1	407 (7132)
PaeI	1	1870 (7132)
PpuMI	1	2010 (7132)
PspXI	1	1538 (7132)
Psrl	1	3059 (7132)
Psrl'	1	3027 (7132)
PstI	1	6788 (7132)
RsrII	1	6589 (7132)
SacII	1	6496 (7132)
Sall	1	6596 (7132)
SbfI	1	6788 (7132)
Scal	1	5299 (7132)
SfiI	1	6870 (7132)
SgrAI	1	1760 (7132)
SnaBI	1	3445 (7132)
Tth111I	1	6665 (7132)
XhoI	1	1538 (7132)

pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt



pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt



pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt

5' TGTTTCGTCTTCGTCCCAGTAAGCTATGTCTCCAGAATGTAGCCATCCATCCTTGTCAATCAAGGCGTTGGTCGCTTCCGGATTGTTTACATAACCCGGACA
 2000
 3' ACAAGCAGAAGCAGGGTCATTCGATACAGAGGTCTTACATCGGTAGGTAGGAACAGTTAGTTCCGCAACCAGCGAAGGCCTAACAAATGTATTGGCCTGT

Luciferase

ArsI
EcoO109I
PpuMI

ArsI'

5' TAATCATAGGTCTCTGACACATAATTCGCCTCTCTGATTAACGCCAGCGTTTTCCGGTATCCAGATCCACAACCTTCGCTTCAAAAAATGGAACAAC
 2100
 3' ATTAGTATCCAGGAGACTGTGTATTAAGCGGAGAGACTAATTGCGGGTCGAAAAGGCCATAGGTCTAGGTGTGGAAGCGAAGTTTTTTACCTTGTG

Luciferase

5' TTTACCGACCGCGCCCGTTTTATCATCCCCCTCGGGTGAATCAGAATAGCTGATGTAGTCTCAGTGAGCCCATATCCTTGTGCTATCCCTGGAAGATGG
 2200
 3' AAATGGCTGGCGCGGCCAAATAGTAGGGGAGCCACATTAGTCTTATCGACTACATCAGAGTCACCTCGGGTATAGGAACAGCATAGGGACCTTCTACC

Luciferase

5' AAGCGTTTTGCAACCGCTTCCCCGACTTCTTTTCGAAAGAGGTGCGCCCCCAGAAGCAATTCGTGTAAATTAGATAAATCGTATTTGTCAATCAGAGTGC
 2300
 3' TTCGCAAAACGTTGGCGAAGGGGCTGAAGAAAGCTTCTCCACGCGGGGTCTTCGTTAAAGCACATTTAATCTATTTAGCATAAACAGTTAGTCTCACG

Luciferase

AjuI

AjuI'

5' TTTTGGCGAAGAATGAAAATAGGGTTGGTACTAGCAACGCACTTTGAATTTGTAACTCTGAAGGGATCGTAAAAACAGCTCTTCTTCAAATCTATACAT
 2400
 3' AAAACCGCTTCTTACTTTTATCCCAACCATGATCGTTGCGTGAAACTTAAAAACATTAGGACTTCCCTAGCATTTTGTGCGAGAAGAAGTTTAGATATGTA

Luciferase

5' TAAGACGACTCGAAATCCACATATCAAATATCCGAGTGTAGTAAACATTCCAAACCGTGATGGAATGGGACAACACTTAAATCGCAGTATCCGGAACG
 2500
 3' ATTCCTGCTGAGCTTTAGGTGTATAGTTTATAGGCTCACATCATTGTGAAGTTTTGGCACTACCTTACCCTGTTGTGAATTTAGCGTCATAGGCCCTGTC

Luciferase

Bsu36I

5' ATTTGATTGCCAAAAATAGGATCTCTGGCATGCGAGAATCTGACGACGGCAGTTCTATGCGGAAGGGCCACACCCTTAGGTAACCCAGTAGATCCAGAGG
 2600
 3' TAAACTAACGGTTTTTATCCTAGAGACCGTACGCTCTTAGACTGCGTCCGTCAAGATACGCCTTCCCGGTGTGGGAATCCATTGGGTCACTAGGTCTCC

Luciferase

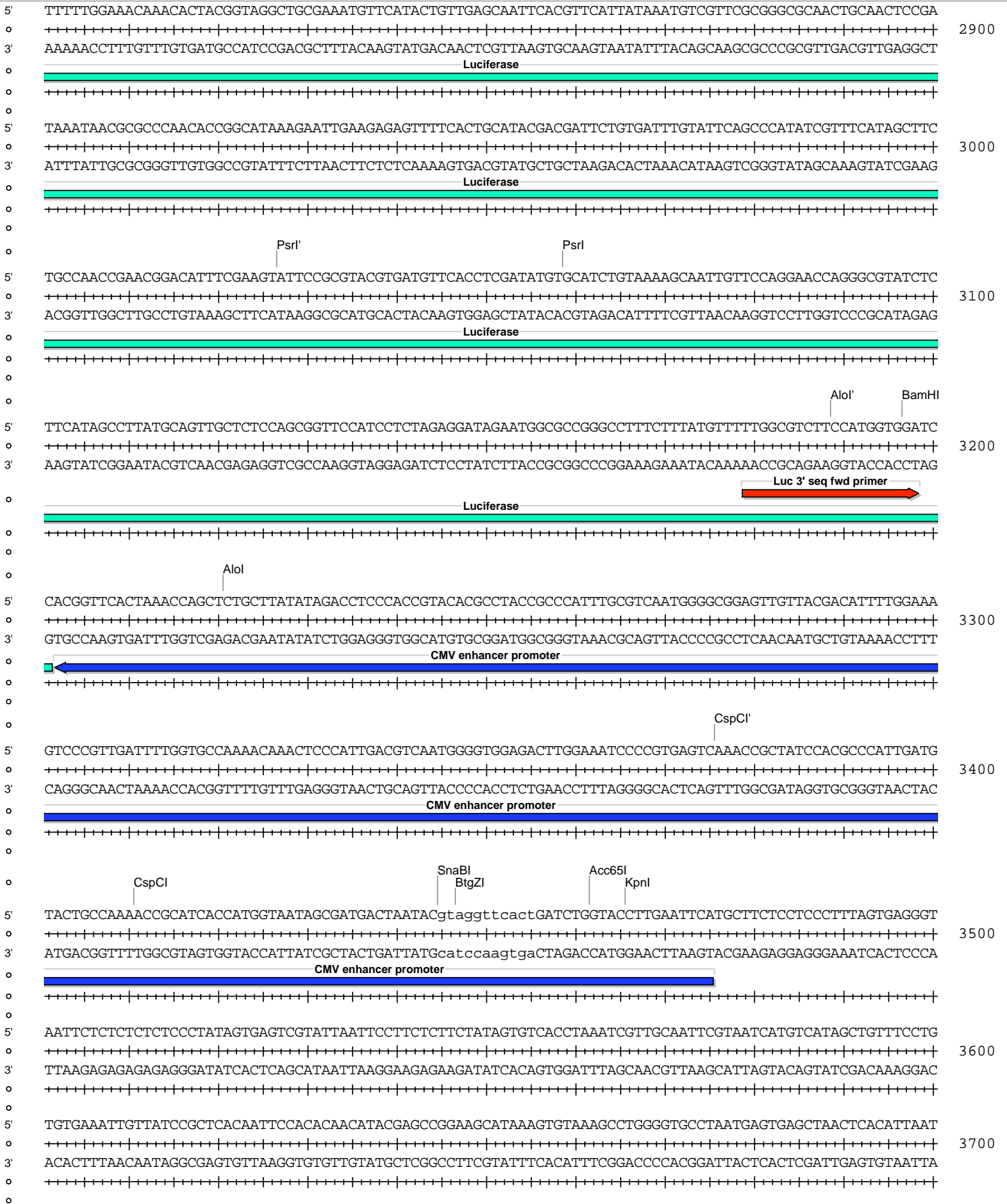
5' AATTCATTATCAGTGCAATTGTTTTGTGTCACGATCAAAGGACTCTGGTACAAAATCGTATTCATTAAAACCGGGAGGTAGATGAGATGTGACGAACGTGTA
 2700
 3' TTAAGTAATAGTCACGTTAACAAAACAGTGCTAGTTTCCCTGAGACCATGTTTTCAGCATAAGTAATTTTGGCCCTCCATCTACTCTACACTGCTTGACAT

Luciferase

5' CATCGACTGAAATCCCTGGTAATCCGTTTTAGAAATCCATGATAATAATTTCTGGATTATTGGTAATTTTTTTGTCACGTTCAAAAATTTTTGCAACCCC
 2800
 3' GTAGCTGACTTTAGGGACCATTAGGCAAAATCTTAGGTACTATTATTAAGACCTAATAACCATTAAAAAACGTCAGTTTAAAAAACGTTGGGG

Luciferase

pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt



pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt

5' TGC GTT GCG CTC ACT G C C C G C T T T C C A G T C G G G A A A C C T G T C G T G C C A G T G C A T T A A T G A A T C G G C C A A C G C G C G G G A G A G G C G G T T T G C G T A T T G G G
 3' A C G C A A C G C G A G T G A C G G G C G A A A G G T C A G C C C T T T G G A C A G C A C G G T C G A C G T A A T T A C T T A G C C G G T T G C G C G C C C C T C T C C G C C A A A C G C A T A A C C C

3800

5' C G C T C T T C C G C T T C C T C G C T C A C T G A C T C G C T C G C T C G G T T C G G C T G C G G C G A G C G G T A T C A G C T C A C T C A A A G G C G G T A A T A C G G T T A T C C A C A G
 3' G C G A A A G G C G A A G G A G C G A G T G A C T G A G C G A C G C G A G C A A G C C G A C C C G C T C G C C A T A G T C G A G T G A G T T T C C G C C A T T A T G C C A A T A G G T G T C

3900

ColE1 origin

5' A A T C A G G G G A T A A C G C A G A A A G A A C A T G T G A G C A A A A G G C C A G C A A A G G C C A G G A A C C G T A A A A A G G C C G C G T T G C T G G C G T T T T C C A T A G G C T C C G
 3' T T A G T C C C C T A T T G C G T C C T T T C T T G T A C A C T C G T T T T C C G G T C G T T T T C C G G T C C T T G G C A T T T T T C C G G C G A A C G A C C G C A A A A A G G T A T C C G A G G C

4000

ColE1 origin

5' C C C C C T G A C G A G C A T C A C A A A A T C G A C G C T C A A G T C A G A G G T G G C G A A A C C C G A C A G G A C T A T A A A G A T A C C A G G C G T T T C C C C T G G A A G C T C C C T C
 3' G G G G G A C T G C T C G T A G T G T T T T A G C T G C G A G T T C A G T C C A C C G C T T T G G G C T G T C C T G A T A T T T C T A T G G T C C G C A A A G G G G A C C T T C G A G G G A G

4100

ColE1 origin

5' G T G C G C T C T C T G T T C C G A C C T G C C G C T T A C C G G A T A C T G T C C G C C T T T C T C C T T C G G G A A G C G T G G C G C T T T C T C A T A G C T C A C G C T G T A G G T A T C
 3' C A C G C G A G A G A C A A G G C T G G G A C G G C A A T G G C C T A T G G A C A G C G G A A A G A G G A A G C C T T C G C A C C G C G A A A G A G T A T C G A G T G C G A C A T C C A T A G

4200

ColE1 origin

5' T C A G T T C G G T G T A G G T C G T T C G C T C C A A G C T G G G C T G T G T G C A C G A A C C C C G T T C A G C C C G A C C G C T G C G C C T T A T C C G G T A A C T A T C G T C T T G A G T C
 3' A G T C A A G C C A C A T C C A G C A A G C G A G G T T C G A C C G A C A C A C G T G C T T G G G G G C A A G T C G G G C T G G C G A C G C G G A A T A G G C C A T T G A T A G C A G A A C T C A G

4300

ColE1 origin

5' C A A C C C G G T A A G A C A C G A C T T A T C G C C A C T G G C A G C A G C C A C T G G T A A C A G G A T T A G C A G A G C G A G G T A T G T A G G C G G T G C T A C A G A G T T C T T G A A G T G G
 3' G T T G G G C C A T T C T G T G C T G A A T A G C G G T G A C C G T C G T C G G T G A C C A T T G T C C T A A T C G T C T C G C T C C A T A C A T C C G C C A C G A T G T C T A A G A A C T T C A C C

4400

ColE1 origin

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 3' A C C G G A T T G A T G C C G A T G T G A T C T T C T T G T C A T A A A C C A T A G A C G C G A G A C G A C T T C G G T C A A T G G A A G C C T T T T T C T C A A C C A T C G A G A A C T A G G C C G T

4500

ColE1 origin

5' A A A A A A C C A C C G C T G G T A G C G G T G G T T T T T T G T T T G C A A G C A G C A G A T T A C G C G C A G A A A A A A G G A T C T C A A G A A G A T C C T T T G A T C T T T C T A C G G G
 3' T T T T T T G G T G G C G A C C A T C G C C A C C A A A A A A C A A A C G T T C G T C G T C T A A T G C G C G T C T T T T T T C C T A G A G T T C T T C T A G G A A C T A G A A A G A T G C C C

4600

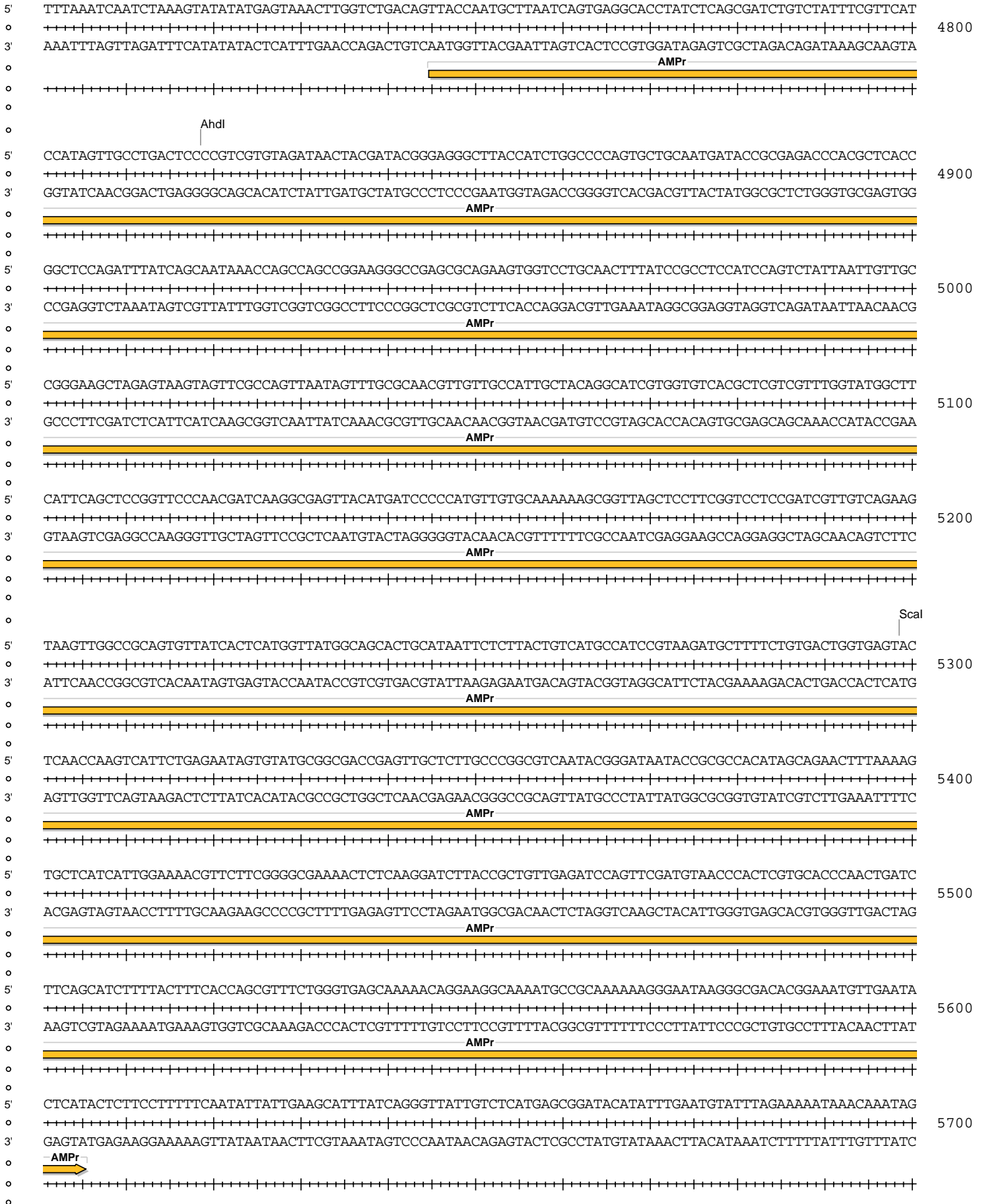
ColE1 origin

5' G T C T G A C G C T C A G T G G A A C G A A A A C T C A C G T T A A G G G A T T T T G G T C A T G A G A T T A C A A A A A G G A T C T T C A C C T A G A T C C T T T T A A A T T A A A A T G A A G T
 3' C A G A C T G C G A G T C A C C T T G C T T T T G A G T G C A A T T C C C T A A A A C C A G T A C T C T A A T A G T T T T T C C T A G A A G T G G A T C T A G G A A A T T T A A T T T T A C T T C A

4700

ColE1 origin

pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt



pMIR-REP-dCMV-STAT1 3' UTR (392-1449) wt



