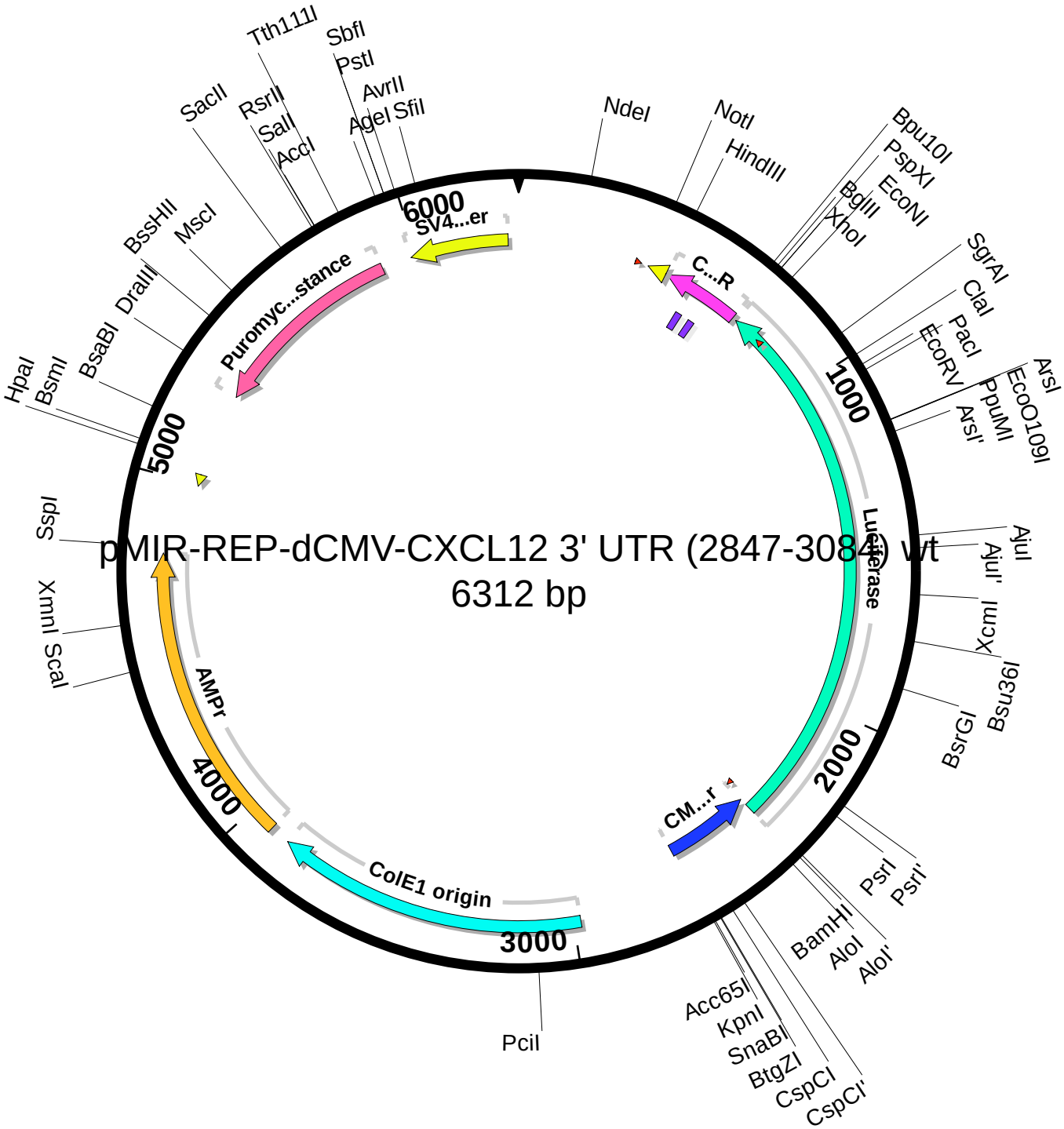
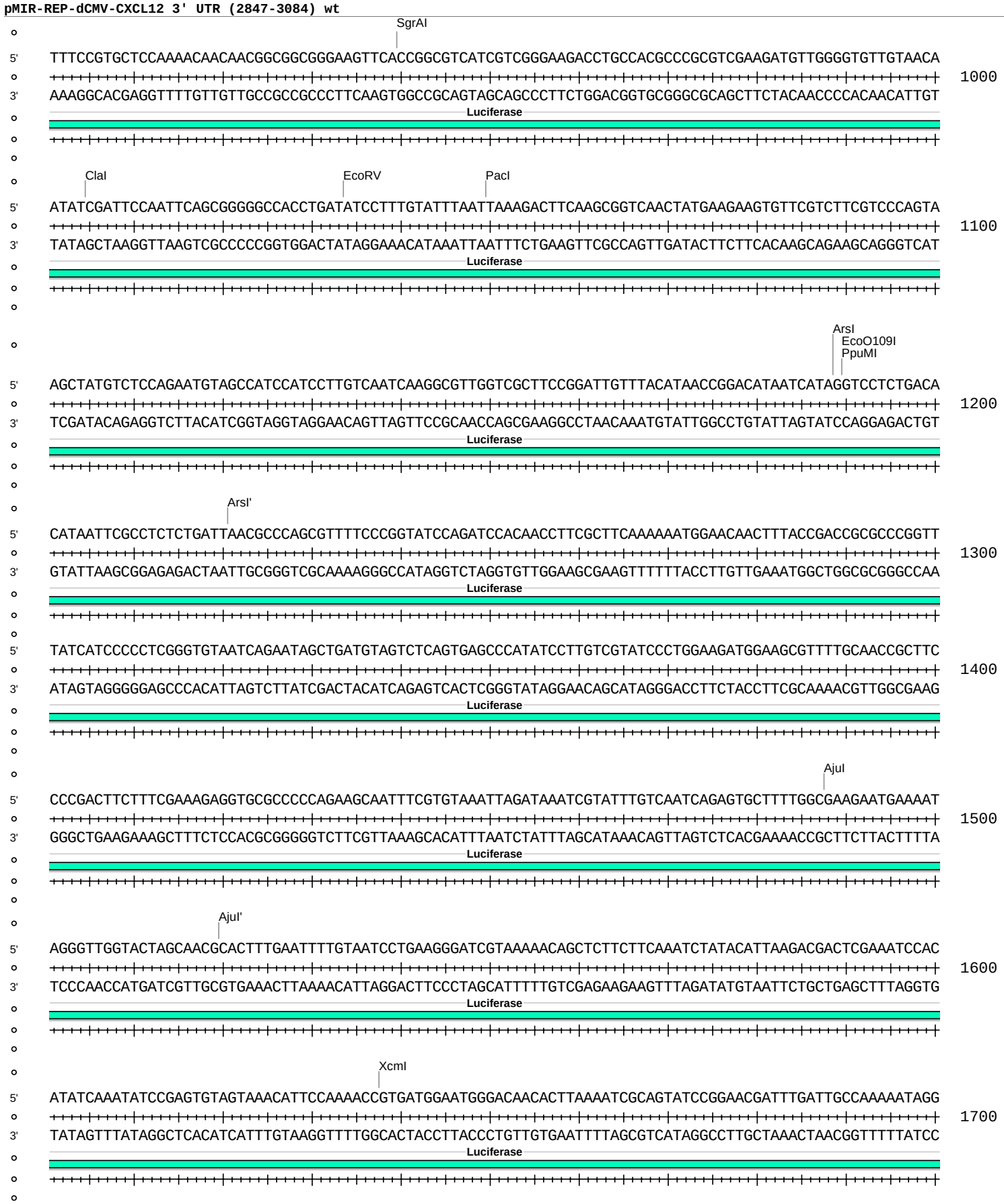

pMIR-REP-dCMV-CXCL12 3' UTR (2847-3084) wt
6312 bp
1000
2000
3000
4000
5000
6000
SV4...er
Puromyc...stance
C...R
Luciferase
CM...r
ColE1 origin
AMPr
Tth111I
SbfI
PstI
AvrII
AgeI
SfiI
SacII
RsrII
SalI
AccI
NdeI
NotI
HindIII
Bpu10I
PspXI
EcoNI
BglII
XhoI
SgrAI
ClaI
PacI
EcoRV
ArsI
EcoO109I
PpuMI
ArsI'
AjuI
AjuI'
XcmI
Bsu36I
BsrGI
PsrI
PsrI'
BamHI
AloI
AloI'
Acc65I
KpnI
SnaBI
BtgZI
CspCI
CspCI'
PciI
ScaI
XmnI
SspI
HpaI
BsmI
BsaBI
DraIII
BssHII
MscI

Absent Sites	0	AarI,AbsI,AfeI,AflII,AleI,ApaI,AscI,AsiSI,BaeI,BaeI',BarI,BarI',BbvCI,BclI,BlpI,BmgBI,BsgI,BstXI,BstZ17I,EcoICRI,FalI,FalI', FseI,FspAI,MauBI,MluI,MreI,NaeI,NgoMIV,NruI,PasI,PflMI,PmeI,PmlI,PshAI,PspOMI,SacI,SanDI,SgrDI,SpeI,SrfI,SwaI
Acc65I	1	2642 (6312)
AccI	1	5777 (6312)
AgeI	1	5945 (6312)
AjuI	1	1488 (6312)
AjuI'	1	1520 (6312)
AloI	1	2401 (6312)
AloI'	1	2369 (6312)
ArsI	1	1189 (6312)
ArsI'	1	1221 (6312)
AvrII	1	5996 (6312)
BamHI	1	2377 (6312)
BglII	1	707 (6312)
Bpu10I	1	694 (6312)
BsaBI	1	5161 (6312)
BsmI	1	5074 (6312)
BsrGI	1	1878 (6312)
BssHII	1	5429 (6312)
Bsu36I	1	1756 (6312)
BtgZI	1	2627 (6312)
ClaI	1	1005 (6312)
CspCI	1	2591 (6312)
CspCI'	1	2556 (6312)
DraIII	1	5320 (6312)
EcoNI	1	754 (6312)
EcoO109I	1	1190 (6312)
EcoRV	1	1034 (6312)
HindIII	1	463 (6312)
HpaI	1	5060 (6312)
KpnI	1	2646 (6312)
MscI	1	5513 (6312)
NdeI	1	185 (6312)
NotI	1	407 (6312)
PacI	1	1050 (6312)
PciI	1	3106 (6312)
PpuMI	1	1190 (6312)
PspXI	1	718 (6312)
PsrI	1	2239 (6312)
PsrI'	1	2207 (6312)
PstI	1	5968 (6312)
RsrII	1	5769 (6312)
SacII	1	5676 (6312)
SalI	1	5776 (6312)
SbfI	1	5968 (6312)
ScaI	1	4479 (6312)
SfiI	1	6050 (6312)
SgrAI	1	940 (6312)
SnaBI	1	2625 (6312)
SspI	1	4803 (6312)
Tth111I	1	5845 (6312)
XcmI	1	1638 (6312)
XhoI	1	718 (6312)
XmnI	1	4598 (6312)

pMIR-REP-dCMV-CXCL12 3' UTR (2847-3084) wt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Luciferase
ClaI
EcoRV
PacI
5' ATATCGATTCCAATTCAGCGGGGGCCACCTGATATCCTTTGTATTTAATTAAAGACTTCAAGCGGTCAACTATGAAGAAGTGTTCGTCTTCGTCCCAGTA
1100
3' TATAGCTAAGGTTAAGTCGCCCCCGGTGGACTATAGGAAACATAAATTAATTTCTGAAGTTCGCCAGTTGATACTTCTTCACAAGCAGAAGCAGGGTCAT
Luciferase
ArsI
EcoO109I
PpuMI
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Luciferase
ArsI'
5' CATAATTCGCCTCTCTGATTAACGCCCAGCGTTTTCCCGGTATCCAGATCCACAACCTTCGCTTCAAAAAATGGAACAACTTTACCGACCGCGCCCGGTT
1300
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Luciferase
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1400
3' ATAGTAGGGGGAGCCCACATTAGTCTTATCGACTACATCAGAGTCACTCGGGTATAGGAACAGCATAGGGACCTTCTACCTTCGCAAAACGTTGGCGAAG
Luciferase
AjuI
5' CCCGACTTCTTTCGAAAGAGGTGCGCCCCCAGAAGCAATTTCGTGTAAATTAGATAAATCGTATTTGTCAATCAGAGTGCTTTTGGCGAAGAATGAAAAT
1500
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Luciferase
AjuI'
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1600
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Luciferase
XcmI
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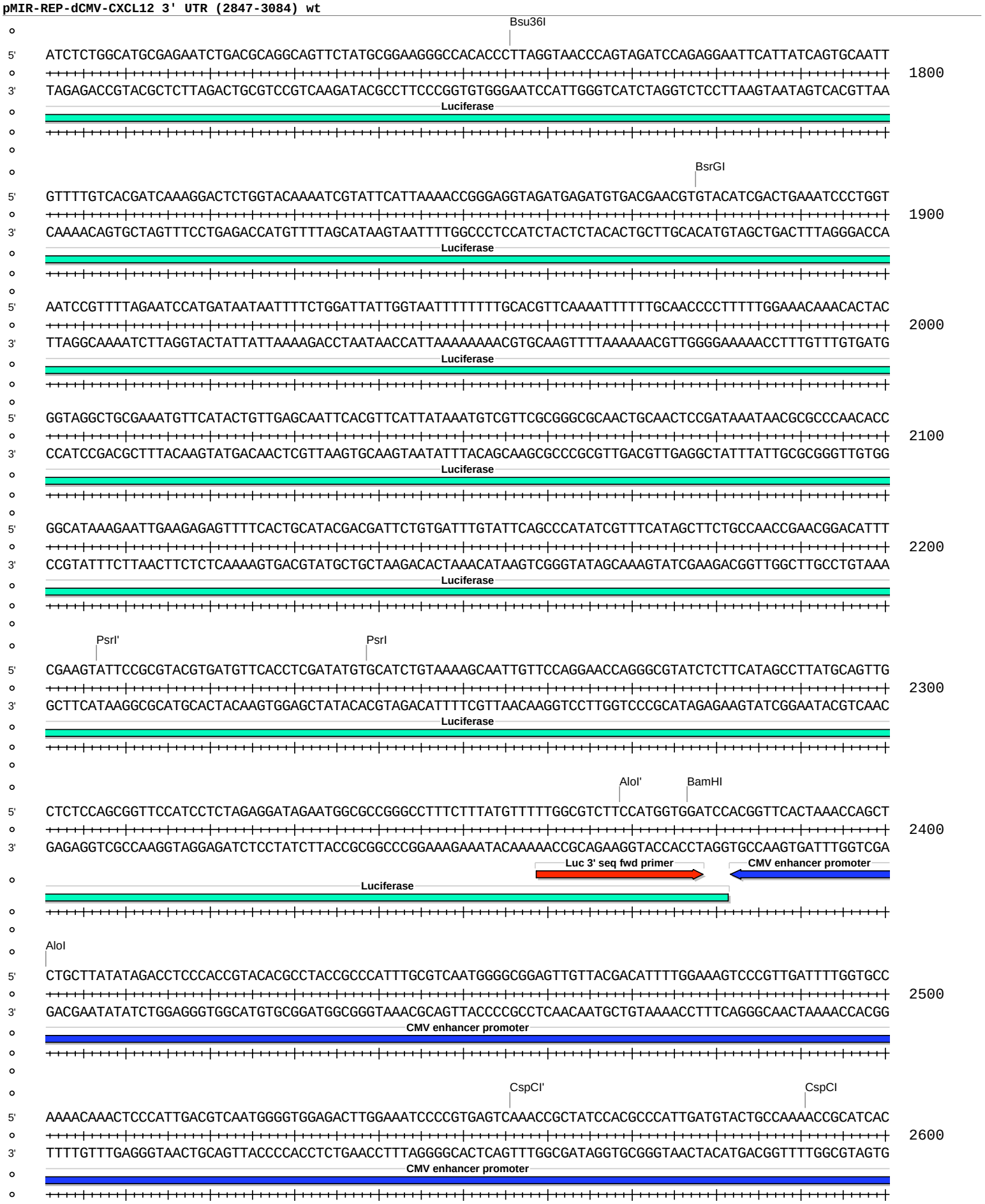
Luciferase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1800
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Luciferase
BsrGI
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1900
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Luciferase
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2000
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2100
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Luciferase
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2200
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Luciferase
PsrI'
PsrI
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2300
3' GCTTCATAAGGCGCATGCACTACAAGTGGAGCTATACACGTAGACATTTTCGTTAACAAGGTCCTTGGTCCCGCATAGAGAAGTATCGGAATACGTCAAC
Luciferase
AlwI'
BamHI
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2400
3' GAGAGGTCGCCAAGGTAGGAGATCTCCTATCTTACCGCGGCCCGGAAAGAAATACAAAAACCGCAGAAGGTACCACCTAGGTGCCAAGTGATTTGGTCGA
Luc 3' seq fwd primer
CMV enhancer promoter
Luciferase
AlwI
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CspCI'
CspCI
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2600
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CMV enhancer promoter


SnaBI
BtgZI
Acc65I
KpnI
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ColE1 origin
PciI
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ColE1 origin
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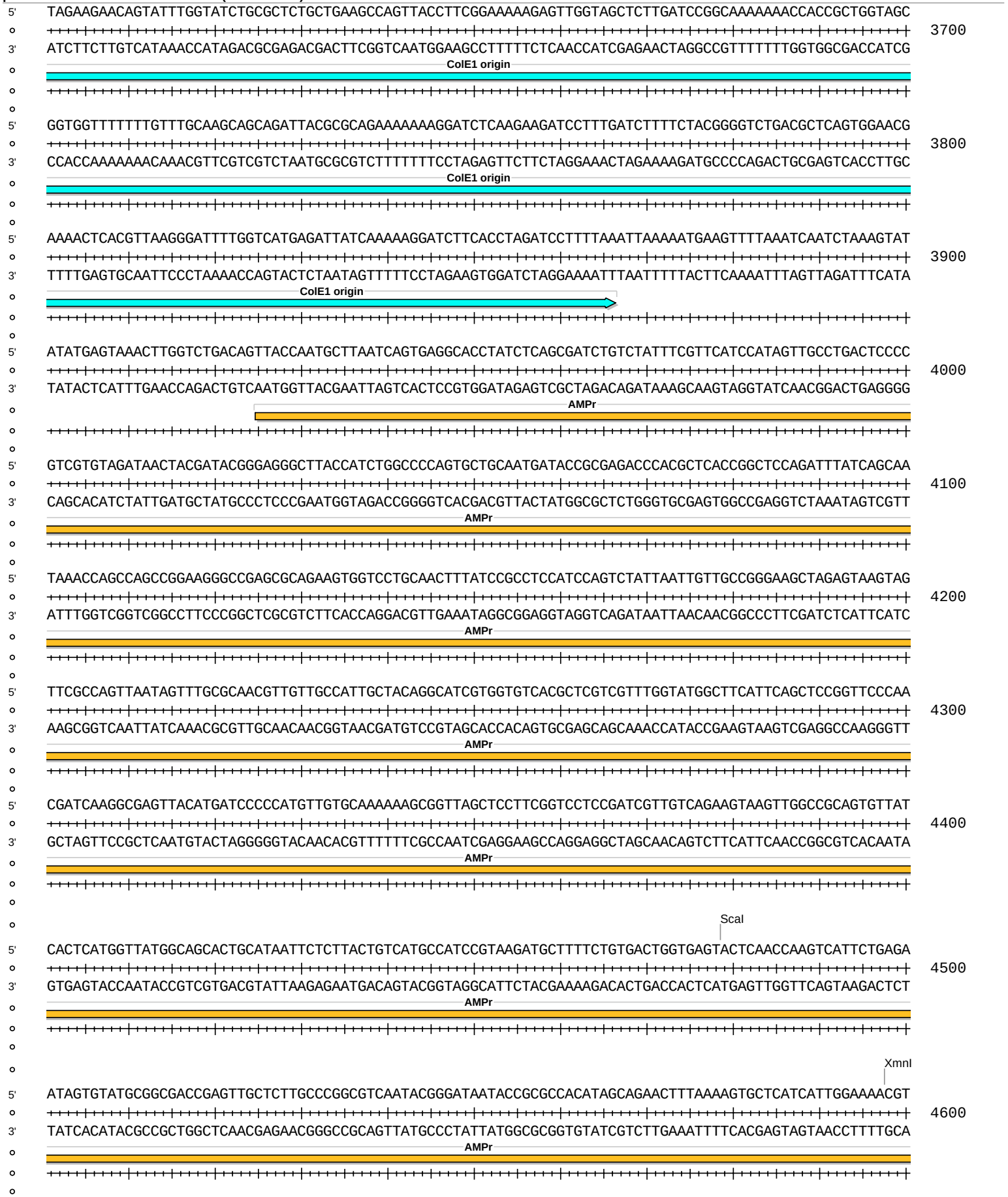
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Puromyc...istance
DraIII
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BssHII
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Puromycin resistance


MscI
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SalI
RsrII
AccI
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Tth111I
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Puromycin resistance
AgeI
SbfI
PstI
AvrII
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SfiI
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