

pMIR-REPORT

Absent Sites	0	AarI,Abst,Afel,AfIII,AleI,Apal,AsiSI,Bael,Bael',BarI,Barl',BclI,BmgBI,BsgI,BstZ17I,FseI,FspAI,MauBI,MreI,NaeI,NgoMIV,PmeI,PmlI,PshAI,PspOMI,SanDI,SgrDI,SrfI,Swal
Acc65I	1	3944 (7614)
AccI	1	7079 (7614)
AgeI	1	7247 (7614)
AhdI	1	5301 (7614)
AjuI	1	2790 (7614)
AjuI'	1	2822 (7614)
Alol	1	3703 (7614)
Alol'	1	3671 (7614)
AlwNI	1	4824 (7614)
Arsl	1	2491 (7614)
Arsl'	1	2523 (7614)
AscI	1	470 (7614)
AvrII	1	7298 (7614)
BamHI	1	3679 (7614)
BplI	1	1404 (7614)
BsaBI	1	6463 (7614)
BsmI	1	6376 (7614)
BsrGI	1	3180 (7614)
Bsu36I	1	3058 (7614)
BtgZI	1	3929 (7614)
ClaI	1	2307 (7614)
CspCI	1	3893 (7614)
CspCI'	1	3858 (7614)
DraIII	1	6622 (7614)
EcoICRI	1	479 (7614)
EcoNI	1	2056 (7614)
EcoRV	1	2336 (7614)
HpaI	1	6362 (7614)
KpnI	1	3948 (7614)
MluI	1	2003 (7614)
NdeI	1	185 (7614)
NotI	1	407 (7614)
NruI	1	491 (7614)
PacI	1	2352 (7614)
PasI	1	712 (7614)
PciI	1	4408 (7614)
PfIMI	1	1657 (7614)
PspXI	1	2020 (7614)
Psrl	1	3541 (7614)
Psrl'	1	3509 (7614)
RsrII	1	7071 (7614)
SacI	1	481 (7614)
SacII	1	6978 (7614)
Sall	1	7078 (7614)
SbfI	1	7270 (7614)
Scal	1	5781 (7614)
SfiI	1	7352 (7614)
SgrAI	1	2242 (7614)
SnaBI	1	3927 (7614)
SpeI	1	908 (7614)
SspI	1	6105 (7614)
XcmI	1	2940 (7614)
XhoI	1	2020 (7614)
XmnI	1	5900 (7614)

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5' TCGCGCGTTTCGGTGTATGACGGTGAAAACTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCG
 100
 3' AGCGCGCAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTGAGGGCCCTCTGCCAGTGTGGAACAGACATTTCGCCTACGGCCCTCGTCTGTTTCGGGC

NdeI

5' TCAGGGCGCGTCAGCGGGTGTGGCGGGTGTGGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATGCCGGTGTGAAATA
 200
 3' AGTCCCGCGCAGTCGCCACAACCGCCACAGCCCGACCGAATTGATACGCCGTAGTCTCGTCTAACATGACTCTCACGTGGTATACGCCACACTTTAT

5' CCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCCATTTCGCCATTTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTAT
 300
 3' GGCGTGTCTACGCATTCTCTTTATAGGCGTAGTCCGCGTAAGCGGTAAGTCCGACGCGTTGACAACCCTTCCCGTAGCCACGCCGGAGAAGCGATA

5' TACGCCAGCTGGCGAAAGGGGATGTGTGCAAGGCGATTAAAGTTGGGTAAAGCCAGGGTTTCCAGTCCAGCGTGTAAAACGACGGCCAGTGCCAA
 400
 3' ATGCGGTGACCGCTTCCCCCTACACGACGTTCCGCTAATTCAACCCATTGCGGTCCCAAAGGGTCAGTGTGCAACATTTTGTGCGGGTCACGGTT

pMIR-REP seq fwd

NotI

5' GCTAGCGGCCCATACAAAAACCAACACAGATCCAATGAAAAATAAAGATCCTTTATTAAAGCTTGGCGCGCCgagctcagtagttcgcgaccagcct
 500
 3' CGATCGCCGGCGTATGTTTTTGGTGTGTGTCTAGGTTACTTTTATTCTAGGAAATAATTGAAACCGCGCGGctcgagtcatacagcgtggtcgga

SV40 Poly A Signal

HIF3A 3' UTR

Ascl

EcoICRI

Sacl

NruI

5' gggcaacatggtgaaacccgctctctatttttttttaacaaaaaaaggaaaaacaaagcctaaaatctgagttctagaaccagagagattggg
 600
 3' cccggtgtaccacttggggcagagataaaaaaaaaaaattgttttttctcttttggatttttagactcaagatcttgggtctctctaaacc

HIF3A 3' UTR

5' aaccataagatctagaatcagaaggagttgaggggtgtaagatctaaaaccagagaaatgtataaggcaagctaaaaatcagaagatatttgaaggctg
 700
 3' ttggtattctagatcttagtcttctcaactcccaccattctagatttgggtctctttacatattccgtttcagatttttagtctctataaacttccgac

HIF3A 3' UTR

PaeI

5' aattctagaccaggtaatttggagtcagatcttgagtgaggaggagctggaatgatgaagctagagccaagggaacttacggaatgaggtctagaa
 800
 3' ttaagatctgggtcccataaacctcagctagaactcactcctcctcgaccttactacttcagatctcggttccttgatgccttactccagatctt

HIF3A 3' UTR

5' tcagaaggcacttgtaagtcagttctagaaccagaaaacagcagatcaccagatctgaaatcaggaccctggaggtggcaccttctagaagttgtgtag
 900
 3' agtcttccgtgaacatcagtcgaagatcttgggtctcttctgctagtggtctagaacttagtcctgggacctccaccgtggaagatcttcaacacatc

HIF3A 3' UTR

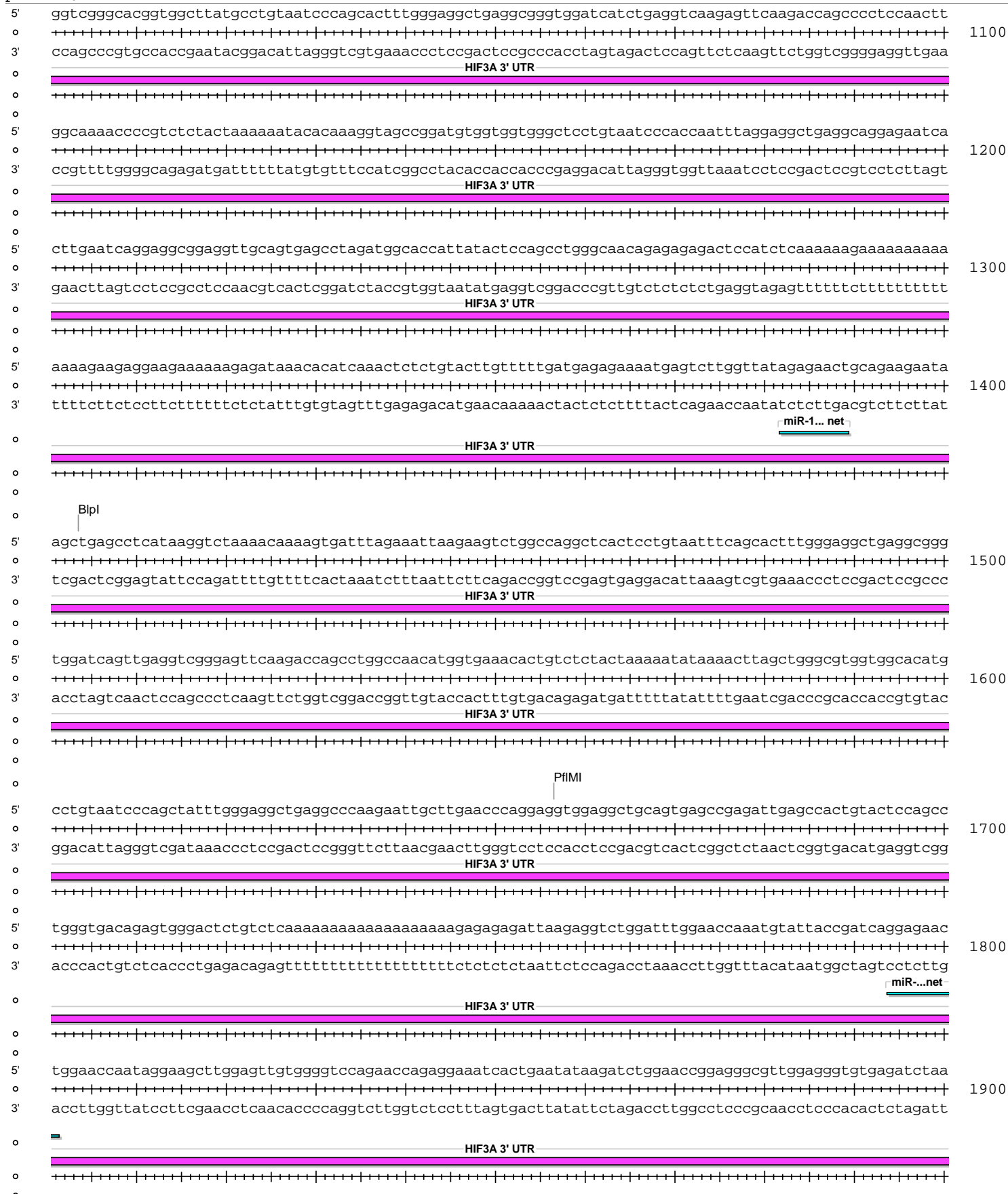
SpeI

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 3' agacctgatcactcaccatgtccagtaactccaagtccttagatcctcttgatctcgttagcagaccaagatcttcttgaccaataatattctattcctgtc

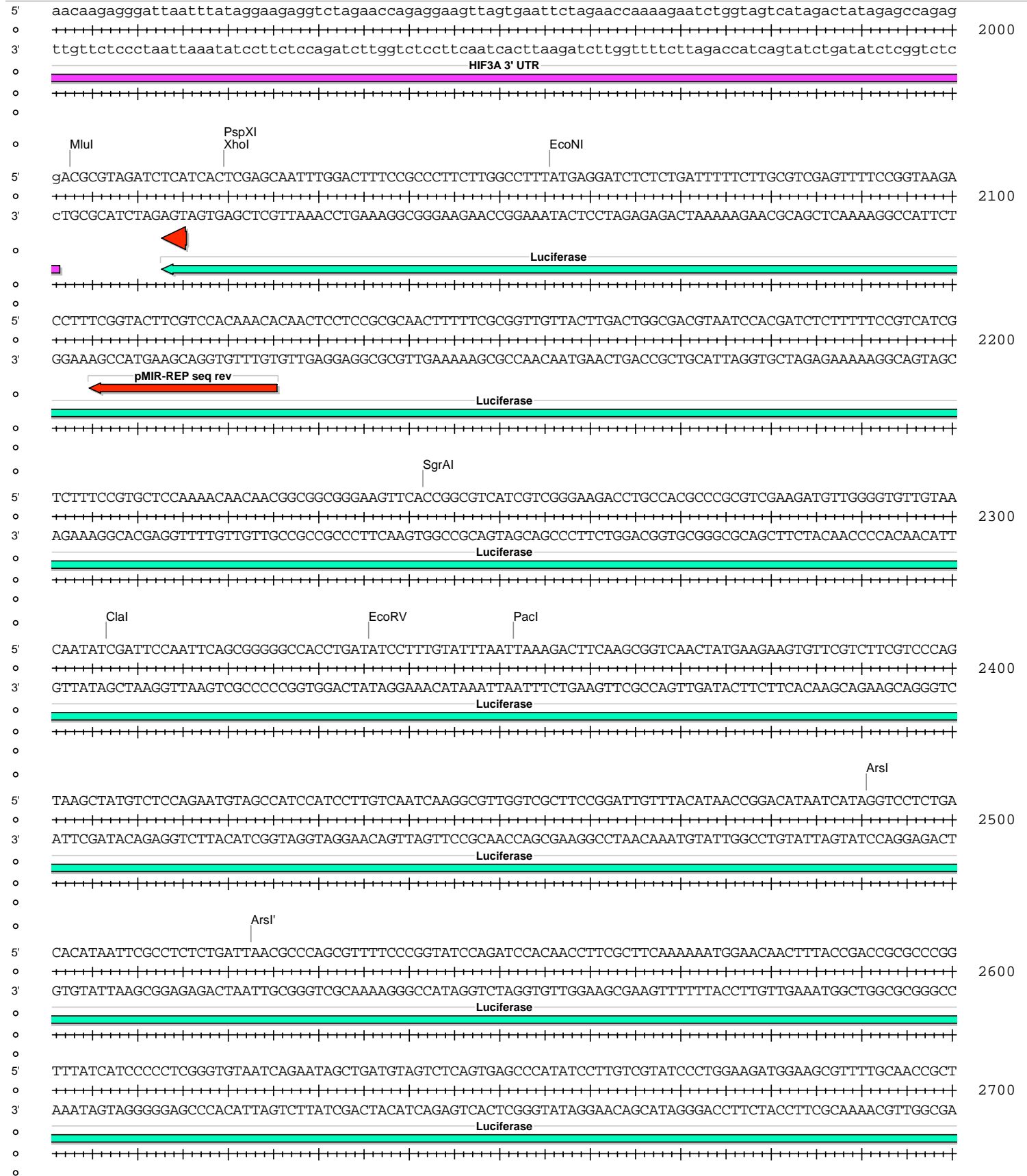
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HIF3A 3' UTR

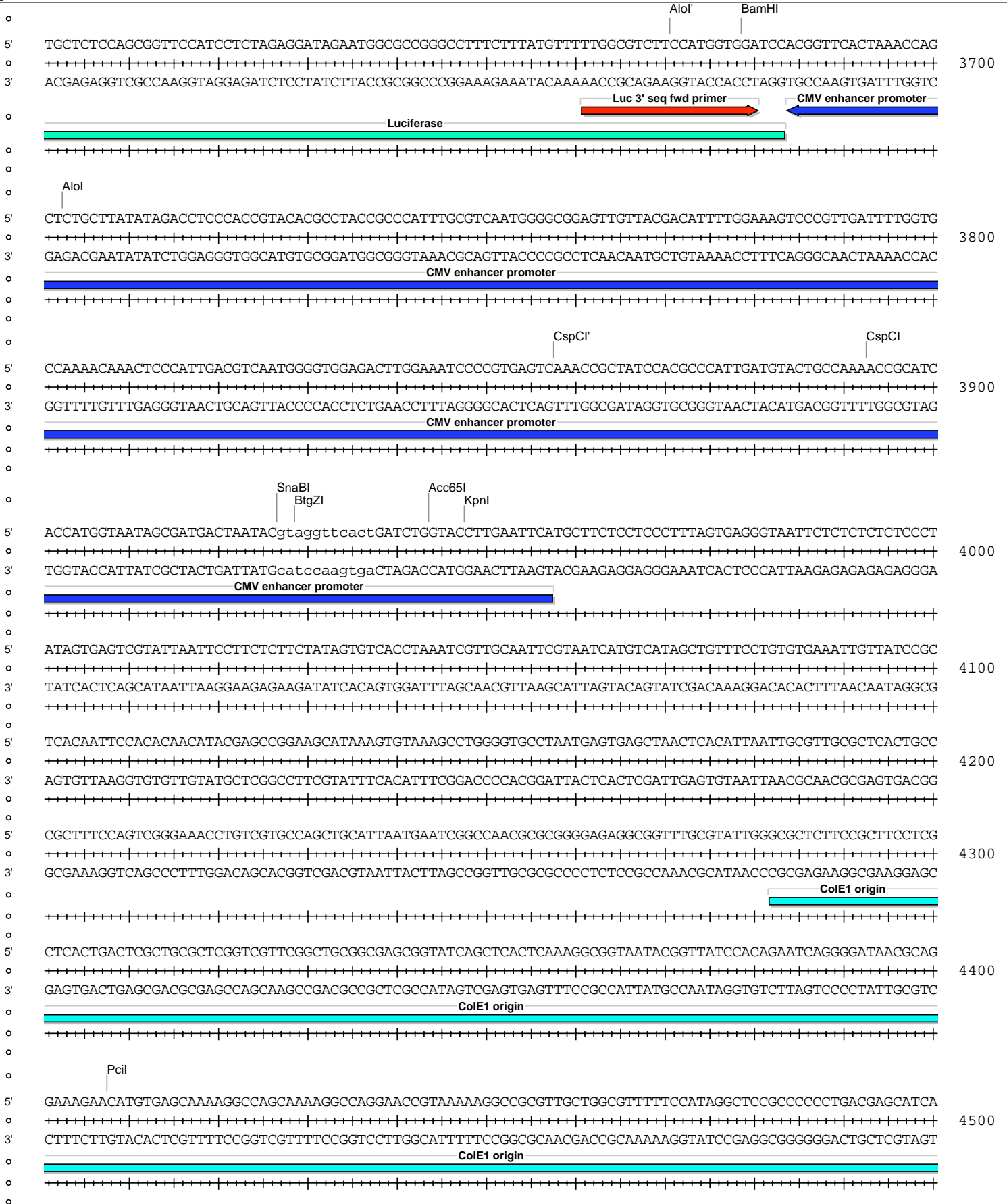
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5' CAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCTGTTCGG
 4600
 3' GTTTTATAGCTGCGAGTTCAGTCTCCACCCTTTGGGCTGTCTGATATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGC

ColE1 origin

5' ACCCTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGAAGCGTGGCGCTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTTCG
 4700
 3' TGGGACGGCGAATGGCCTATGGACAGGCGGAAAGAGGGAAGCCCTTCGACCCGCGAAAGAGTATCGAGTGCACATCCATAGAGTCAAGCCACATCCAGC

ColE1 origin

5' TTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTTCAGCCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGA
 4800
 3' AAGCGAGGTTTCGACCCGACACACGTGCTTGGGGGCAAGTCGGGCTGGCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGTGCT

ColE1 origin

AlwNI

5' CTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTCTACAGAGTCTTGAAGTGGTGGCCTAACTACGGCTAC
 4900
 3' GAATAGCGGTGACCGTCGTCGGTGACCATTGTCTTAATCGTCTCGCTCCATACATCCGCGACGATGTCTCAAGAACTTCACCACCGGATTGATGCCGATG

ColE1 origin

5' ACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAAAAACCACCGCTGGTA
 5000
 3' TGATCTTCTGTTCATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTCTCAACCATCGAGAACTAGGCCGTTTTTTTGGTGGCGACCAT

ColE1 origin

5' GCGGTGGTTTTTTTGGTTTGAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGGAA
 5100
 3' CGCCACCAAAAAACAACGTTTCGTCGTCTAATGCGCGTCTTTTTTCTTAGAGTTCTTCTAGGAACTAGAAAAGATGCCCCAGACTGCGAGTCAACCTT

ColE1 origin

5' CGAAAACCTCACGTTAAGGGATTTGGTCATGAGATTATCAAAAAGGATCTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTAAATCAATCTAAAGT
 5200
 3' GCTTTTGGAGTGAATTCCTAAAACCACTACTCTAATAGTTTTTCTTAGAAGTGGATCTAGGAAAATTTAATTTTACTTCAAAAATTTAGTTAGATTTCA

ColE1 origin



5' ATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCC
 5300
 3' TATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTGCCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGAGG

AMPr

AhdI

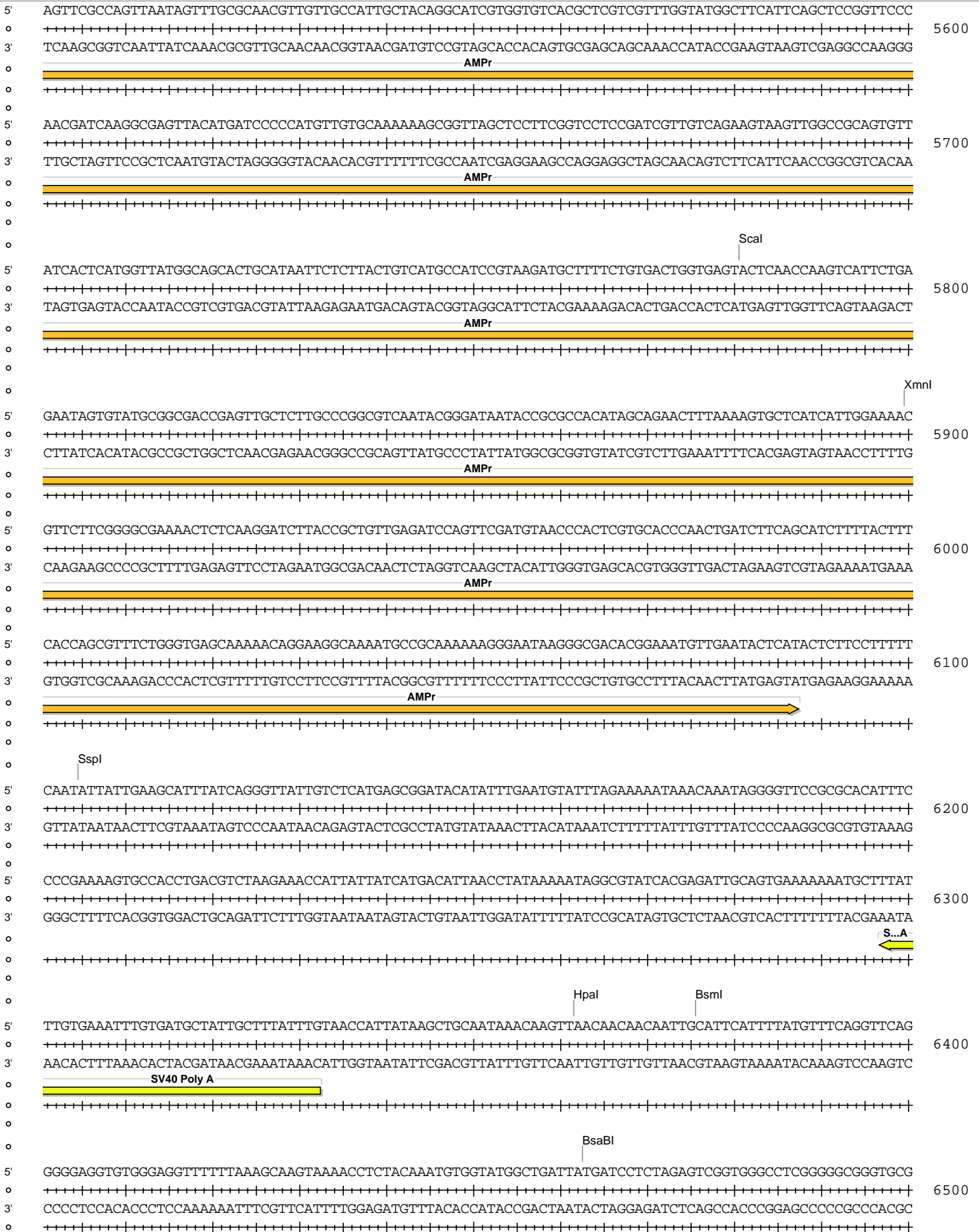
5' CCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGCGAGACCCACGCTCACCAGGCTCCAGATTTATCAGC
 5400
 3' GGCAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGTACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGCTAAATAGTTCG

AMPr

5' AATAAACAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCTCCATCCAGTCTATTAATTGTTGCCGGAAGCTAGAGTAAAGT
 5500
 3' TTATTTGGTGGTTCGGCTTCCCGGCTCGCGTCTTACCAGGACGTTGAAAATAGGCGGAGGTAGGTGAGATAAATTAACAACGGCCCTTCGATCTCATTCA

AMPr

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5' GGGTCGGCGGGGCCCGCCCGGGTGGCTTCGGTTCGGAGCCATGGGGTCGTGCGCTCCTTTCGGTTCGGGCGCTGCGGGTTCGTGGGGCGGGCGTCAGGCACCG
 6600
 3' CCCAGCCGCCCGGGCGGGGCCACCGAAGCCAGCCTCGGTACCCAGCACGCGAGGAAAGCCAGCCCGCGACGCCAGCACCCCGCCCGCAGTCCCGTGGC
 Puromycin resistance

Dralll
 5' GGC'TGCGGGTCATGCACCAGGTGCGCGGTCTTCGGGCACCTCGACGTCGGCGGTGACGGTGAAGCCGAGCCGCTCGTAGAAGGGGAGGTTGCGGGGCG
 6700
 3' CCGAACGCCAGTACGTGGTCCACGCGCCAGGAAGCCCGTGGAGCTGCAGCCGCCACTGCCACTTCGGCTCGGCGAGCATCTTCCCCTCCAACGCCCGCC
 Puromycin resistance

5' CCGAGGTCTCCAGGAAGCGGGCACCCCGCGCGCTCGGCCCGCTCCACTCCGGGGAGCACGACGGCGCTGCCAGACCCTTGCCCTGGTGGTTCGGGCGA
 6800
 3' GCCTCCAGAGTCTTCCGCCGTGGGGCCGCGGAGCCGGCGGAGGTGAGGCCCTCGTGTGCCGCGACGGGTCTGGGAACGGGACCACAGCCCGCT
 Puromycin resistance

5' GACGCCGACGTTGGCCAGGAACCACGCGGGCTCCTTGGGCCGGTGCGGCGCCAGGAGGCCTTCCATCTGTTGCTGCGCGCCAGCCGGGAACCGCTCAAC
 6900
 3' CTGCGGCTGCCACCGTCTTGGTGCGCCCGAGGAACCCGGCCAGCCCGGTCTCCGGAAGGTAGACAACGACGCGCCGGTTCGGCCCTTGGCGAGTTG
 Puromycin resistance

SacII
 5' TCGGCCATGCGCGGGCCGATCTCGGCGAACACCGCCCCGCTTCGACGCTCTCCGGCGTGGTCCAGACCGCCACCGCGCGCCGTCGTCCGCGACCCACA
 7000
 3' AGCCGGTACGCGCCCGCTAGAGCCGCTTGTGGCGGGGCGAAGCTGCGAGAGGCCGACCCAGGTCTGGCGGTGGCGCCCGGCAGCAGGCCTGGGTGT
 Puromycin resistance

RsrII Sall Accl
 5' CCTTGCCGATGTCGAGCCCGACGCGCGTGGAGGAAGAGTTCTTGCAGCTCGGTGACCCGCTCGATGTGGCGGTCCGGGTGACCGGTGTTGGCGGTGGCGGG
 7100
 3' GGAACGGCTACAGCTCGGGTTCGCGCACTCCTTCTCAAGAACGTCGAGCCACTGGGCGAGCTACACGCCAGGCCAGCTGCCACACCGCGCACCCGCC
 Puromycin resistance

5' GTAGTCGGCGAACCGCGGGCGGAGGGTGCCTACGGCCCGGGGACGTCGTCGCGGTGGCGAGGCGCACCGTGGGCTTGTACTCGGTTCATGGAAGGTCGT
 7200
 3' CATCAGCCGCTTGCAGCGCCGCTCCACGCATGCGGGCCCCCTGCGAGCAGCCACCCTCCGCGTGGCACCCGAACATGAGCCAGTACCTTCCAGCA
 Puromycin resistance

AgeI SbfI AvrII
 5' CTCCTTGTGAGGGGTGAGGGCGTGGGTGAGGGATGGTGGCGGCACCGGTCTGGCGGCCGACCTGCAGGCATGCAAGCTAGCTTTTTCGAAAAGCCTA
 7300
 3' GAGGAACACTCCCCAGTCCCCGACCCAGTCCCCTACCACCGCCGTGGCCAGCACCCCGGCTGGACGTCCTGATCGATCGAAAAACGTTTTCGGAT
 SV40 Promoter

SfiI
 5' GGCCTCCAAAAAGCCTCCTCACTACTTCTGGAATAGCTCAGAGCCGAGGCGGCTCGGCCTCTGCATAAATAAAAAAATTAGTCAGCCATGGGGCGG
 7400
 3' CCGGAGGTTTTCGAGGAGTATGAAGACCTTATCGAGTCTCCGGCTCCCGCGAGCCGAGACGTATTTATTTTAAATCAGTCGGTACCCCGCC
 SV40 Promoter

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5' AGAATGGGCGGAAGTGGGCGGAGTTAGGGGCGGGATGGGCGGAGTTAGGGGCGGGACTATGGTTGCTGACTAATGAGATGCATGCTTTGCATACTTCTG
 o ++++++
 3' TCTTACCCGCCTTGACCCGCCTCAATCCCGCCCTACCCGCCTCAATCCCGCCCTGATACCAACGACTGATTAACTCTACGTACGAAACGTATGAAGAC
 o
 o
 o
 o
 5' CCTGCTGGGGAGCCTGGGGACTTCCACACCTGGTTGCTGACTAATGAGATGCATGCTTTGCATACTTCTGCCTGCTGGGGAGCCTGGGGACTTCCAC
 o ++++++
 3' GGACGACCCCTCGGACCCCTGAAAGGTGTGGACCAACGACTGATTAACTCTACGTACGAAACGTATGAAGACGGACGACCCCTCGGACCCCTGAAAGGTG
 o
 o
 o
 o
 5' ACCAATCTTTCGTC
 o ++++++
 3' TGGTTAGAAACGAG
 o ++++++
 o

7500

7600

7614

SV40 Promoter

SV40 Promoter