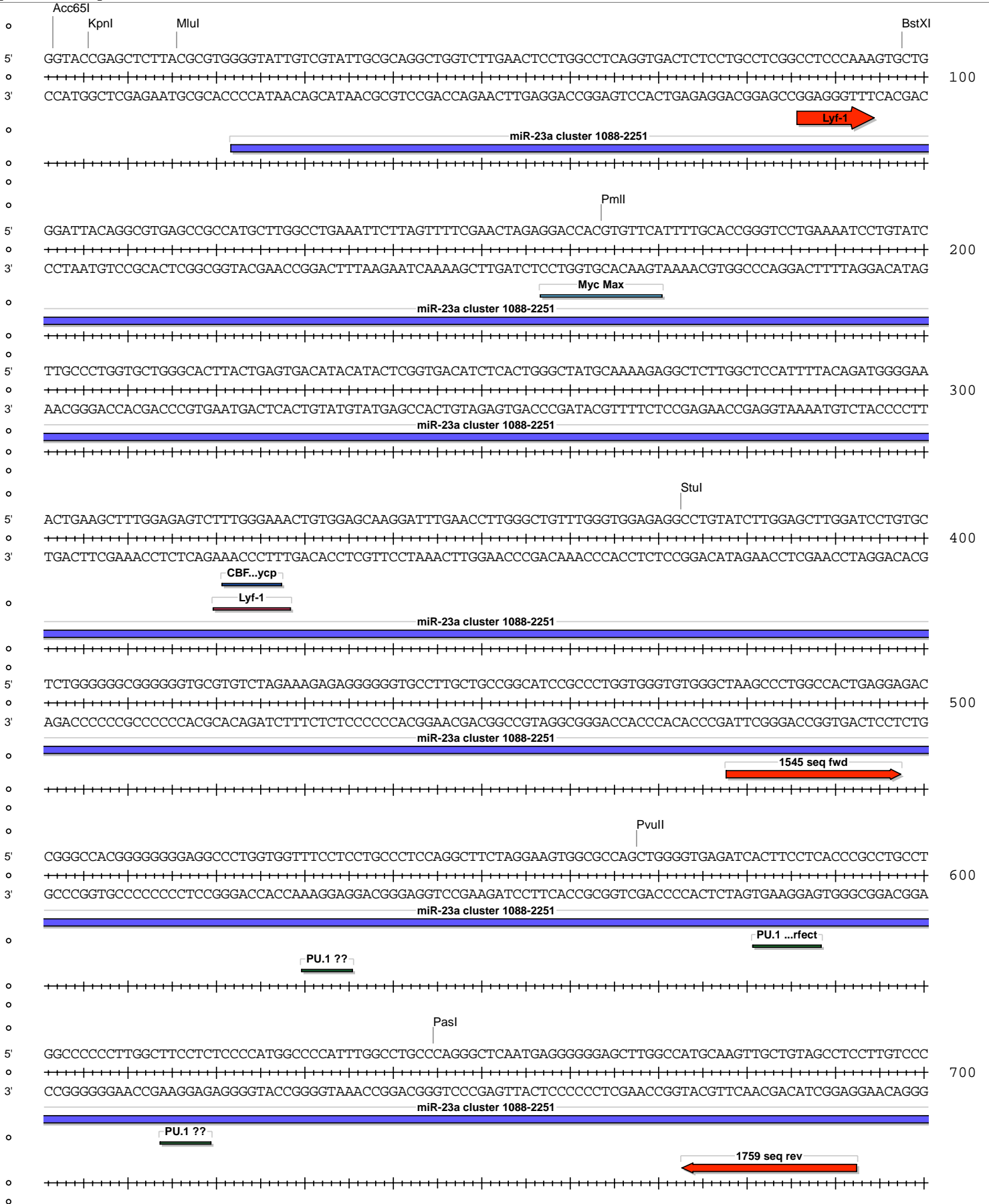
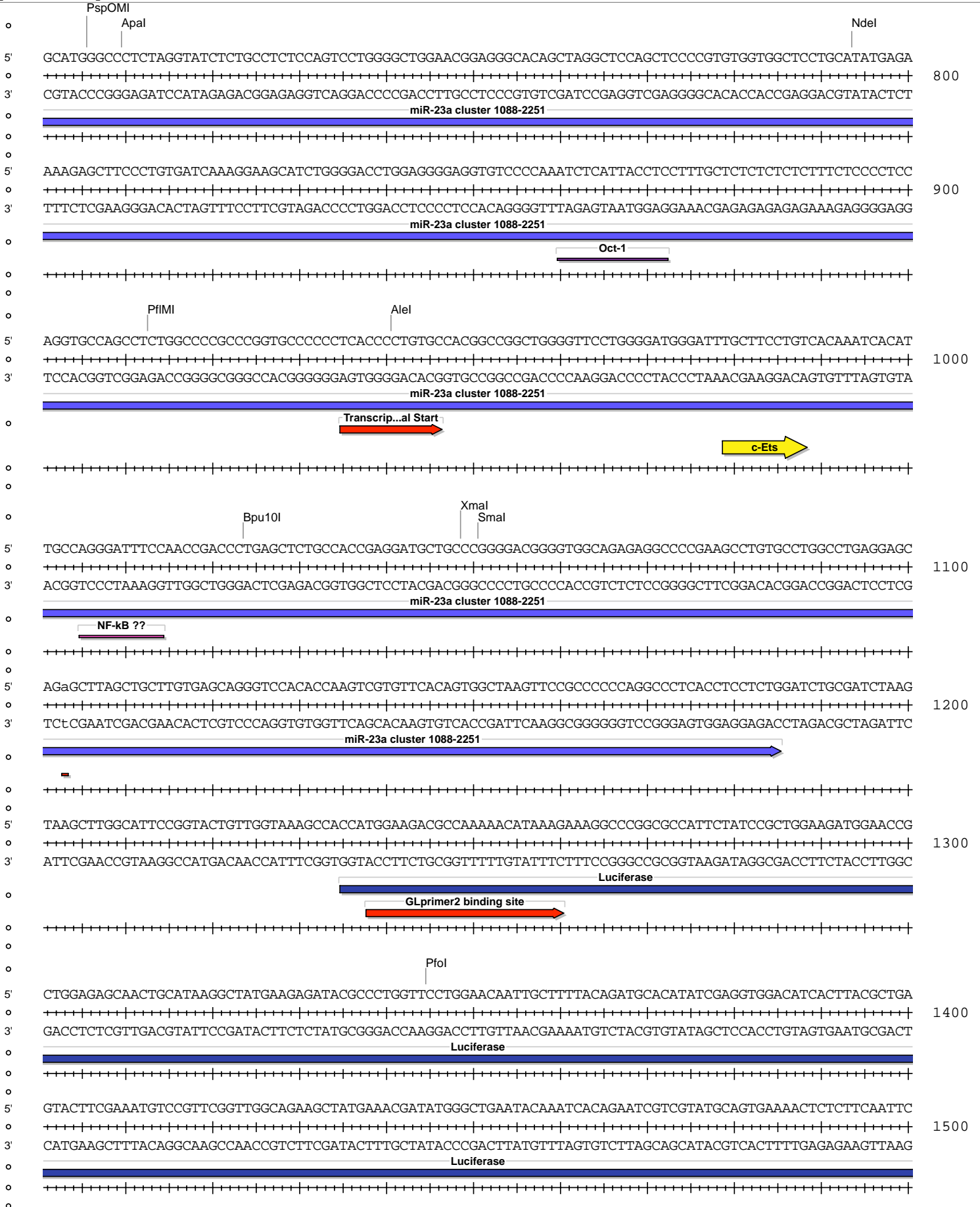


Absent Sites	0	AatII, AbsI, AfIII, AgeI, AjuI, AjuI', AlfI, AlfI', Arsl, Arsl', AscI, AsiSI, AvrII, BaeI, BaeI', BarI, BarI', BbvCI, BglIII, BmgBI, BmtI, BsiWI, BsmBI, BssHIII, BstAPI, BstEII, BstZ17I, CspCI, CspCI', EcoRI, EcoRV, FspAI, MauBI, MreI, NheI, NruI, NsiI, PaeI, PmeI, PspXI, PstI, PstI', PstI, RsrII, SacII, SanDI, SbfI, SexAI, SfiI, SgrDI, SnaBI, SpeI, SrfI, SwaI, Tth111I, XhoI, ZraI
Acc65I	1	2 (5967)
AccI	1	3161 (5967)
AfeI	1	3286 (5967)
AhdI	1	4303 (5967)
AleI	1	941 (5967)
ApaI	1	710 (5967)
Asel	1	4475 (5967)
Bpu10I	1	1024 (5967)
BsaBI	1	3153 (5967)
BsgI	1	5959 (5967)
BsrGI	1	1728 (5967)
BstXI	1	98 (5967)
BtgZI	1	5447 (5967)
DraIII	1	5455 (5967)
FseI	1	2911 (5967)
HpaI	1	3052 (5967)
KpnI	1	6 (5967)
MluI	1	16 (5967)
NdeI	1	794 (5967)
NotI	1	5801 (5967)
PasI	1	645 (5967)
PciI	1	3410 (5967)
PfIMI	1	913 (5967)
PfoI	1	1345 (5967)
PmlI	1	164 (5967)
PshAI	1	3225 (5967)
PspOMI	1	706 (5967)
PvuII	1	568 (5967)
SalI	1	3160 (5967)
SgrAI	1	2666 (5967)
SmaI	1	1051 (5967)
SphI	1	1901 (5967)
StuI	1	373 (5967)
XmaI	1	1049 (5967)
XmnI	1	4902 (5967)

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5' TTTATGCCGGTGTGGGCGCGTTATTTATCGGAGTTGCAGTTGCGCCCGCAACGACATTTATAATGAACGTGAATTGCTCAACAGTATGGGCATTTCCG 1600  
 3' AAATACGGCCACAACCCGCGCAATAAATAGCCTCAACGTCAACGCGGGCGCTTGCTGTAATATTACTTGCACCTAACGAGTTGTCATACCCGTAAGCG  
 Luciferase

5' AGCCTACCGTGGTGTTCGTTTCCAAAAAGGGTTGCAAAAAATTTGAACGTGCAAAAAAGCTCCCAATCATCAAAAAATTATTCATCATGGATTCTAA 1700  
 3' TCGGATGGCACCACAAGCAAAGGTTTTTCCCAACGTTTTTAAACTTGCACGTTTTTTTCGAGGGTTAGTAGGTTTTTAATAATAGTACCTAAGATT  
 Luciferase

BsrGI  
 5' AACGGATTACCAGGGATTTTCAGTCGATGTACACGTTTCGTACATCTCATCTACCTCCCGTTTTAATGAATACGATTTTGTGCCAGAGTCTTCGATAGG 1800  
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 Luciferase

5' GACAAGACAATTGCACTGATCATGAACTCCTCTGGATCTACTGGTCTGCCTAAAGGTGTCGCTCTGCCTCATAGAACTGCCTGCGTGAGATTCTCGCATG 1900  
 3' CTGTTCTGTTAACGTGACTAGTACTTGAGGAGACCTAGATGACCAGACGGATTTCCACAGCGAGACGGAGTATCTTGACGGACGCACTCTAAGAGCGTAC  
 Luciferase

SphI  
 5' CCAGAGATCCTATTTTGGCAATCAAATCATTCCGGATACTGCGATTTTAAAGTGTGTTCCATTCCATCACGGTTTTGGAATGTTTACTACACTCGGATA 2000  
 3' GGTCTCTAGGATAAAAACCGTTAGTTTTAGTAAGCCTATGACGCTAAAAATCACAACAAGGTAAGGTAGTGCCAAAACCTTACAATGATGTGAGCCTAT  
 Luciferase

5' TTTGATATGTGGATTTTCGAGTCGTCTTAATGTATAGATTTGAAGAAGAGCTGTTTCTGAGGACCTTCAGGATTACAAGATTCAAAGTGGCTGCTGGTG 2100  
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 Luciferase

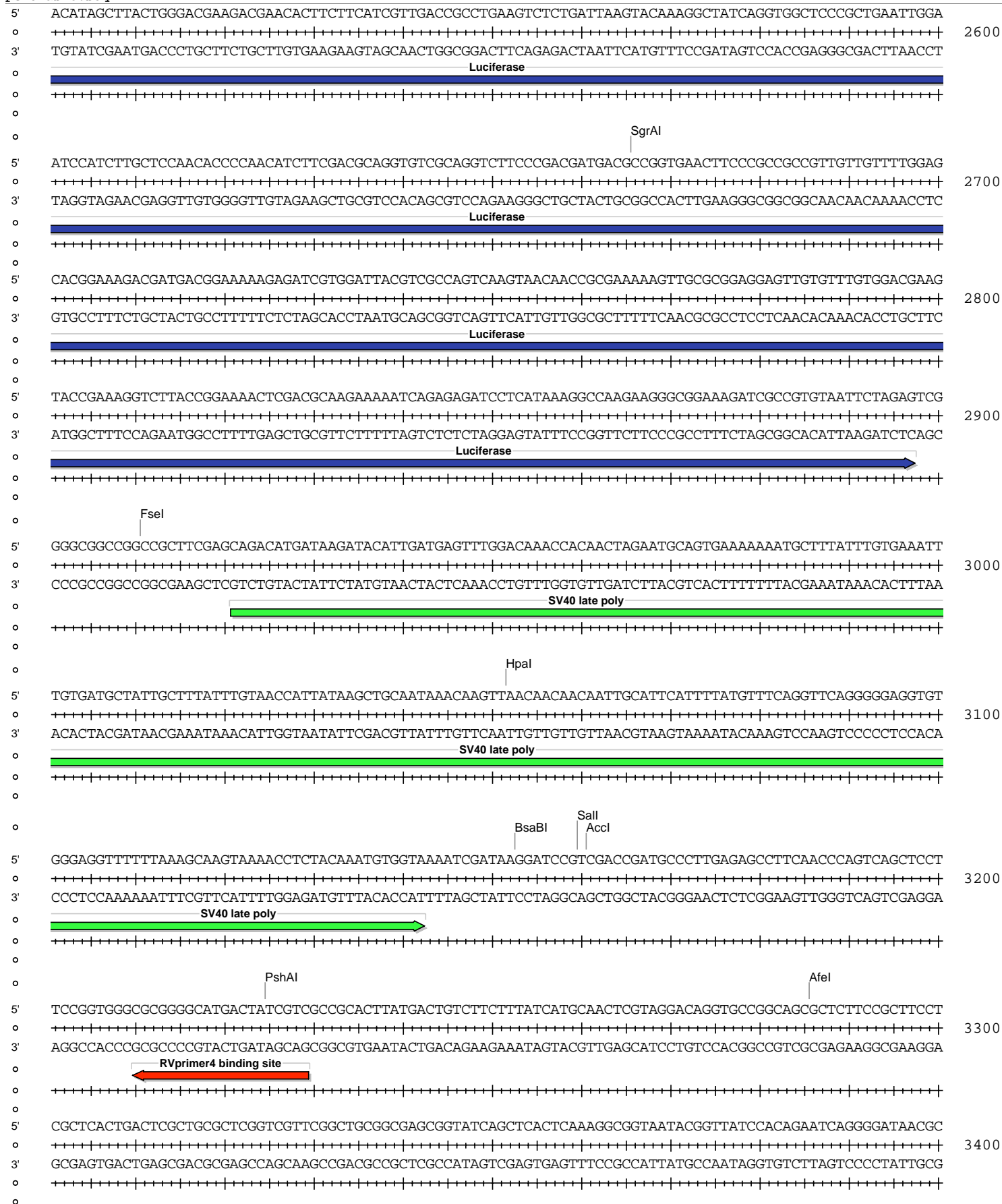
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 Luciferase

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 3' TTCAGCCCTTCGCCAACGGTCTCCAAGGTAGACGGTCCATAGTCCGTTCCTATACCCGAGTGACTCTGATGTAGTCGATAAGACTAATGTGGGCTCCC  
 Luciferase

5' GGATGATAAACCGGGCGCGGTCGGTAAAGTTGTTCATTTTGAAGCGAAGGTTGTGGATCTGGATACCGGGAAAACGCTGGGCGTTAATCAAAGAGGC 2400  
 3' CCTACTATTTGGCCCGCGCCAGCCATTTCAACAAGGTAATAAATTCGCTTCCAACACCTAGACCTATGGCCCTTTTGGACCCGCAATTAGTTTCTCCG  
 Luciferase

5' GAACTGTGTGTGAGAGTCTTATGATTATGTCCGGTTATGTAACAATCCGGAAGCGACCAACGCCTTGATTGACAAGGATGGATGGCTACATTCTGGAG 2500  
 3' CTTGACACACTCTCCAGGATACTAATACAGGCCAATACATTTGTTAGGCCCTTCGCTGGTTGCGGAACTAACTGTTCTTACCTACCGATGTAAGACCTC  
 Luciferase

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o PciI  
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3' TCCTTTCTGTACTACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATTTTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTA  
o ++++++  
o  
5' CACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCCTCTCCTGTTC 3600  
o ++++++  
3' GTGTTTTTAGTGTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCTGATATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACGCGAGAGACAAG  
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3' GCTGGGACGCGAATGGCCTATGGACAGGCGGAAAGAGGAAGCCCTTCGCACCGCAAAGAGTATCGAGTGCACATCCATAGAGTCAAGCCACATCCA  
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5' GACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCT 3900  
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3' CTGAATAGCGGTGACCGTCGTCGGTGACCATTGTCTTAATCGTCTCGCTCCATACATCCGCCACGATGTCTCAAGAACTTCACCACCGGATTGATGCCGA  
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o ++++++  
3' TGTGATCTTCTTGTATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTTCTCAACCATCGAGA ACTAGGCCGTTTGTGGTGGCGACC  
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o  
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3' CATATATACTCATTGAACCAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGA  
o ++++++  
o  
o beta-lactamase  
o ++++++  
o  
o AhdI  
5' CCCCCTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCA 4400  
o ++++++  
3' GGGGCAGCACATCTATTGATGCTATGCCCTCCGAATGGTAGACCGGGTACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTAAATAGT  
o ++++++  
o  
o beta-lactamase  
o ++++++  
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o  
o AseI  
5' GCAATAAACCCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAA 4500  
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3' CGTTATTTGGTTCGGTTCGGCTTCCCGGCTCGCGTCTTCAACAGGACGTTGAAATAGCGGAGGTAGGTGAGATAAATAACACGGCCCTTCGATCTCATT  
o ++++++  
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o beta-lactamase  
o ++++++

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