

pMSCVneo-GFP-miR-24-2

Absent Sites	0	AarI, AbsI, AjuI, AjuI', AlfI, AlfI', AsiSI, AvrII, BarI, BarI', BbsI, BclI, BpII, BpII', BsaBI, BsiWI, BstBI, BstXI, BstZ17I, CspCI, CspCI', DraIII, FseI, FspAI, HpaI, MauBI, MfeI, MluI, MreI, NruI, NsiI, PaeI, PfiMI, PmeI, PmlI, PstI, PspXI, PstI, PstI', SacII, SbfI, SfiI, SgrDI, SnaBI, SrfI, SwaI, XcmI, XhoI
AccI	1	3933 (7635)
AflIII	1	5022 (7635)
ApaI	1	2451 (7635)
ArsI	1	1737 (7635)
ArsI'	1	1705 (7635)
BamHI	1	3926 (7635)
BglIII	1	1411 (7635)
BlnI	1	2880 (7635)
BsaAI	1	3561 (7635)
BsmI	1	3038 (7635)
BspEI	1	3026 (7635)
BstEII	1	1089 (7635)
Clal	1	3953 (7635)
EcoRI	1	2587 (7635)
HincII	1	3934 (7635)
HindIII	1	3946 (7635)
NdeI	1	7086 (7635)
NotI	1	2163 (7635)
PciI	1	5022 (7635)
PshAI	1	2410 (7635)
PspOMI	1	2447 (7635)
Sall	1	3932 (7635)
SanDI	1	2494 (7635)
Scal	1	6395 (7635)
SexAI	1	1217 (7635)
SgrAI	1	7458 (7635)
StuI	1	2901 (7635)

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5' TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGC AAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGG
 100
 3' ACTTCTG GGGTGGACATCCAAACCGTTCGATCGAATTCATTGCGGTA AACCGTTC CGTACCTTTTATGTATTGACTCTTATCTCTTCAAGTCTAGTTCC
 5' pCMV LTR

5' TTAGGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCG
 200
 3' AATCCTTGTCTCTCTGTCGCTTATACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCC GGTTCTTGTCTACCAGGGGTCTACGC
 5' pCMV LTR

5' GTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTC
 300
 3' CAGGGCCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAG
 5' pCMV LTR

5' GCTTCTCGTCTCTGTTCGCGCCTTCTGCTCCCCGAGCTCAATAAAAAGAGCCACAAACCCCTCACTCGGCGCGCAGTCTCCGATAGACTGCGTCCCC
 400
 3' CGAAGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTAATTTCTCGGGTGTGGGGAGTGAGCCGCGCGGT CAGGAGGCTATCTGACGCAGCGGG
 5' pCMV LTR

5' GGGTACCCGTATTCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGACTCGCTGATCCTTGGGAGGGTCTCCTCAGATTGATTGACTGCCACCT
 500
 3' CCCATGGGCATAAGGGTTAATTTGCGGAGAACGACAAACGTAGGCTTAGCACCTGAGCGACTAGGAACCCCTCCAGAGGAGTCTAACTAACTGACGGGTGGA
 5' pCMV LTR

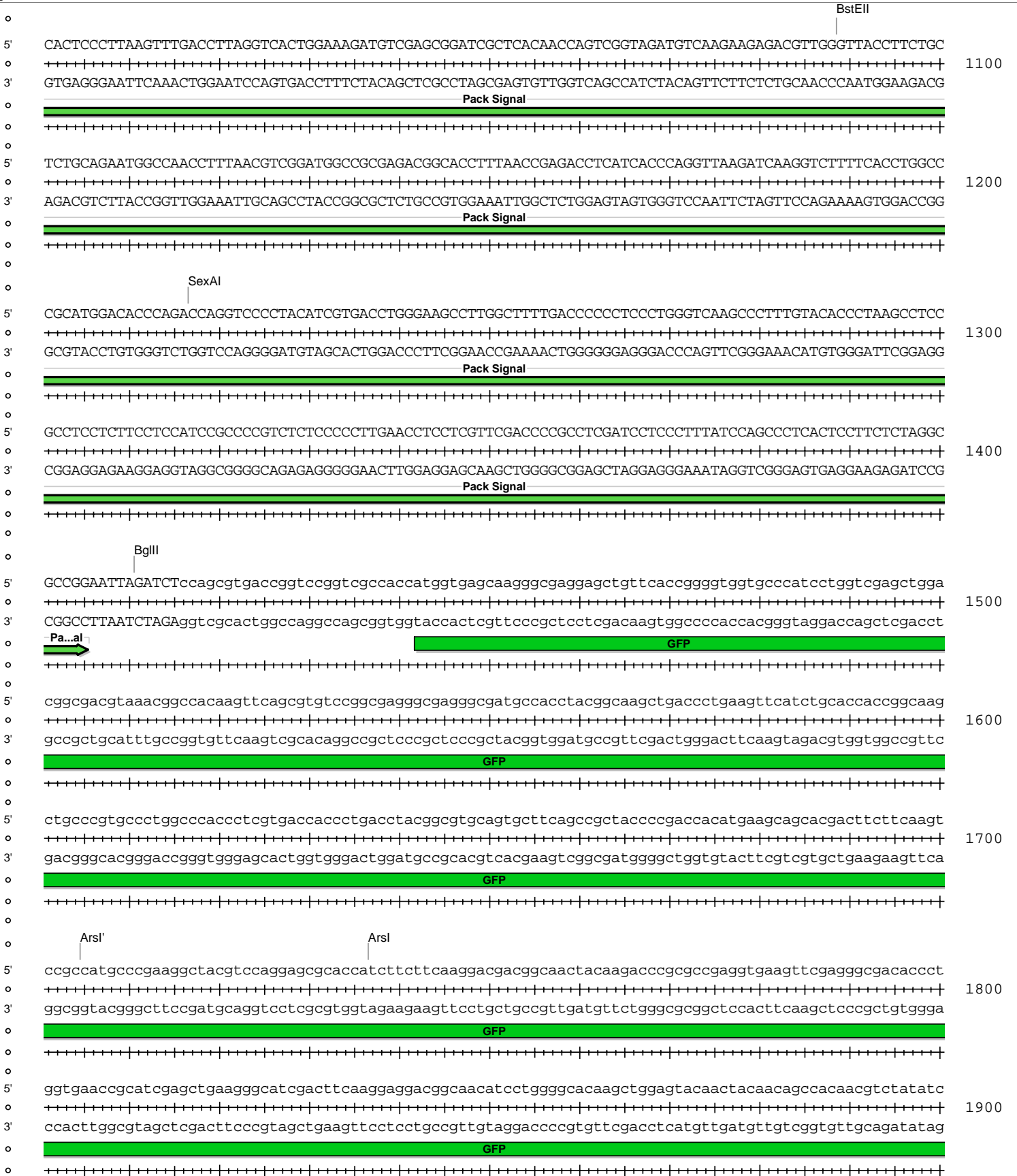
5' CGGGGTCTTTTCAATTTGGAGGTTCCACCGAGATTGGAGACCCCTGCCAGGGACCACCGACCCCCCGCGGGAGGTAAGCTGGCCAGCGGTCTGTTTCG
 600
 3' GCCCCAGAAAGTAAACCTCCAAGGTGGCTCTAAACCTCTGGGGACGGGTCCCTGGTGGCTGGGGGGCGGCCCTCCATTTCGACCGGTTCGCCAGCAAAGC
 5' pCMV LTR Pack Signal

5' TGTCTGTCTCTGTCTTTGTGCGTGTTTGTGCCGCATCTAATGTTTGC GCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGG
 700
 3' ACAGACAGAGACAGAAACACGCACAAACACGGCCGTAGATTACAAACCGGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCTGGGCACC
 Pack Signal

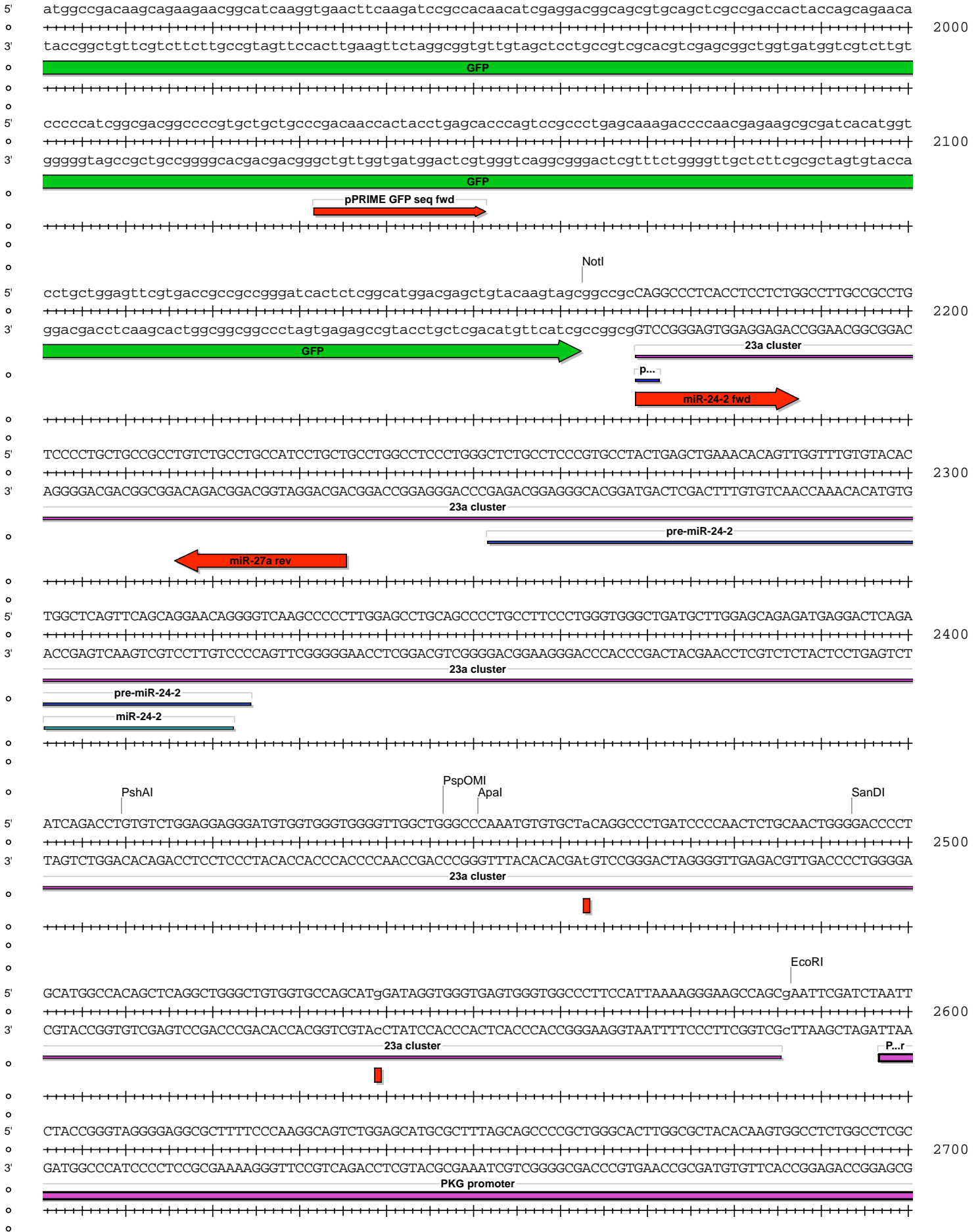
5' TGGAATGACGAGTTCGAACACCCGCGCAACCCCTGGGAGACGTCCCAGGGACTTTGGGGCCGTTTGTGGCCCGACCTGAGGAAGGGAGTCGATG
 800
 3' ACCTTGACTGCTCAAGACTTGTGGGCCGGCGTTGGGACCCTCTGCAGGGTCCCTGAAACCCCGGCAAAAACACCGGGCTGGACTCCTTCCTCAGCTAC
 Pack Signal

5' TGGAATCCGACCCCGT CAGGATATGTGGTCTGGTAGGAGACGAGAACC TAAAACAGTTC CCGCCTCCGTCTGAATTTTGTCTTTCGGTTTGAACCGAA
 900
 3' ACCTTAGGCTGGGGCAGTCTTATACACCAAGACCATCCTCTGCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGGCTT
 Pack Signal

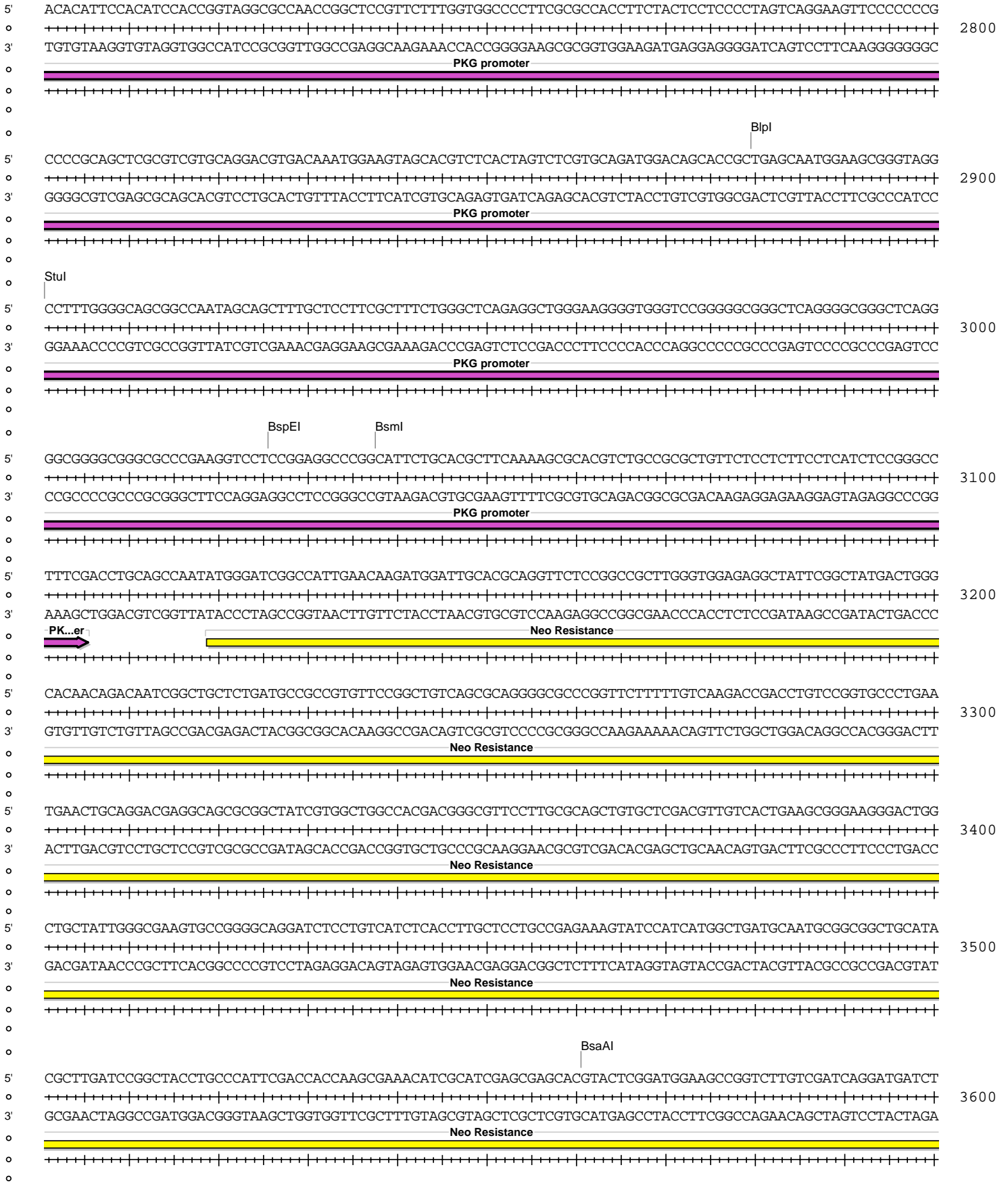
5' GCCGCGCTCTGTCTGCTGCAGCGCTGCAGCATCGTTCGTGTTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTTAC
 1000
 3' CGGCGCGCAGAACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTTTAATCCCGGTCTGACAATG
 Pack Signal



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5' GGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCC
 3' CCTGCTTCTCGTAGTCCCCGAGCGGGTTCGGCTTGACAAGCGGTCCGAGTTCGCGCGGTACGGGCTGCCGCTCCTAGAGCAGCACTGGGTACCGCTACGG
 Neo Resistance

5' TGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTTCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTA
 3' ACGAACGGCTTATAGTACCACCTTTTACCGGCGAAAAGACCTAAGTAGCTGACACCGGCCGACCCACACCGCCTGGCGATAGTCTGTATCGCAACCGAT
 Neo Resistance

5' CCCGTGATATGTCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCTCGTGTCTTACGGTATCGCCGCTCCCGATTTCGAGCGCATCGCCTTCTATCG
 3' GGGCACTATAACGACTTCTCGAACCGCCGCTTACCCGACTGGCGAAGGAGCACGAAATGCCATAGCGGCGAGGGCTAAGCGTCGCGTAGCGGAAGATAGC
 Neo Resistance

5' CCTTCTTGACGAGTCTTCTGAGGGGATCCGTCGACCTGCAGCCAAGCTTATCGATAAAAATAAAAGATTTTATTAGTCTCCAGAAAAAGGGGGGAATGA
 3' GGAAGAAGTCTCAAGAAGACTCCCCTAGGCAGCTGGACGTCGGTTCGAATAGCTATTTATTTCTAAAATAAATCAGAGGTCTTTTCCCCCTTACT
 Neo Resistance

5' AAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAAGTAACGCCATTTTGCAAGGCATGGAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTTA
 3' TTCTGGGGTGGACATCAAACCGTTCGATCGAATTCAATTGCGGTAAAACGTTCCGTACCTTTTATGTATGACTCTTATCTCTTCAAGTCTAGTTCCAAT
 3' pCMV LTR

5' GGAACAGAGAGACAGCAGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTC
 3' CCTGTCTCTCTGTCTTATACCCGTTTGTCTATAGACACCATTCTGCAAGGACGGGGCCGAGTCCCGTCTTGTCTACCAGGGGTCTACGCCAG
 3' pCMV LTR

5' CCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCAAGGACCTGAAATGACCCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCT
 3' GGCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGGTCCACGGGGTTCCTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAGCGA
 3' pCMV LTR

5' TCTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCAACCCCTCACTCGGCGCGCCAGTCTCCGATAGACTGCGTCGCCCGGG
 3' AGAGCGAAGACAAGCGCGGAAGACGAGGGGCTCGAGTTATTTCTCGGGTGTGGGGAGTGAAGCGCGGTCAGGAGGCTATCTGACGCAGCGGGCCC
 3' pCMV LTR

5' TACCCGTGTATCCAATAAACCTCTTGCAAGTTCGACTTGTGGTCTCGCTGTTCTTGGGAGGGTCTCCTCTGAGTGATTGACTACCCGTCAGCGG
 3' ATGGGCACATAGGTTATTTGGGAGAAGTCAACGTAGGCTGAACACCAGGCGACAAGGAACCTCCAGAGGAGACTCACTAAGTATGATGGGCAGTCCG
 3' pCMV LTR

5' GGGTCTTTCATGGGTAACAGTTTCTTGAAGTTGGAGAACAACATTCTGAGGGTAGGAGTCAATATTAAGTAATCCTGACTCAATTAGCCACTGTTTGA
 3' CCCGAAAAGTACCCATTGTCAAAGAAGTCAACCTCTTGTGTGTAAGACTCCCATCCTCAGCTTATAATTCATTAGGACTGAGTTAATCGGTGACAAAAC
 3' pCMV LTR

Restriction sites: BamHI, Sall, Accl, HincII, HindIII, ClaI

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5' ATCCACATACTCCAATACTCCTGAAATAGTTTCATTATGGACAGCGCAGAAGAGCTGGGGAGAATTAATTCGTAATCATGGTCATAGCTGTTTCCTGTGTG
 4700
 3' TAGGTGTATGAGGTTATGAGGACTTTATCAAGTAATACCTGTGCGCTCTTCTCGACCCCTCTTAATTAAGCATTAGTACCAGTATCGACAAAGGACACAC
 5' AAATTGTTATCCGCTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCG
 4800
 3' TTTAACAAATAGGCGAGTGTAAAGGTGTGTTGTATGCTCGGCCCTTCGTATTTACATTTTCGGACCCACGGATTACTCACTCGATTGAGTGAATTAACGC
 5' TTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGCGGTTTTCGTATTGGGCGCT
 4900
 3' AACGCGAGTGACGGGCGAAAGTTCAGCCCTTTGGACAGCACGGTCGACGTAATTACTTAGCCGGTTGCGCGCCCTCTCCGCCAACGCATAACCCGCGA
 5' CTTCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGTTATCCACAGAATC
 5000
 3' GAAGGCGAAGGAGCGAGTGACTGAGCGACGCGAGCCAGCAAGCCGACGCCGCTCGCCATAGTCGAGTGAGTTTCCGCCATTATGCCAATAGGTGTCTTAG
 Pcil
 AflIII
 5' AGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCC
 5100
 3' TCCCTATTGCGTCCTTTCTGTACTCGTTTTCCGGTCTTTTCCGGTCTTGGCATTTTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGG
 5' CCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGC
 5200
 3' GGACTGCTCGTAGTGTTTTTAGCTGCGAGTTCACTCCACCGCTTTGGGCTGTCTGATATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACG
 5' GCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAG
 5300
 3' CGAGAGGACAAGGCTGGGACGGCAATGGCCTATGGACAGGCGGAAAGAGGAAGCCCTTCGCACCGCGAAAGAGTATCGAGTGGACATCCATAGAGTC
 5' TTCGGTGTAGGTGCTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCGCTTTCAGCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAAC
 5400
 3' AAGCCACATCCAGCAAGCGAGTTTCGACCCGACACACGTGCTTGGGGGCAAGTCCGGCTGCGCAGCGGAATAGGCCATTGATAGCAGAAGTTCAGTTG
 5' CCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTCTTGAAGTGGTGGC
 5500
 3' GGCCATTCTGTGCTGAATAGCGGTGACCGTCTGCGGTGACCATTGTCTTAATCGTCTCGCTCCATACATCCGCCACGATGTCTCAAGAAGTTCACCACCG
 5' CTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACA
 5600
 3' GATTGATGCCGATGTGATCTTCTGTGATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTCTCAACCATCGAGAAGTTCAGCCGTTTGT
 5' AACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCT
 5700
 3' TTGGTGGCGACCATCGCCACCAAAAAACAACGTTTCGTGCTTAATGCGCGTCTTTTTTCTAGAGTTCTTCTAGGAACTAGAAAAGATGCCCCAGA
 5' GACGCTCAGTGAACGAAAACCTACGTTAAGGGATTTTGGTTCATGAGATTATCAAAAAGGATCTTACCTAGATCCTTTTAAATTTAAAATGAAGTTTAA
 5800
 3' CTGCGAGTCACCTTGCTTTTGGAGTGAATTCCTAAAACAGTACTCTAATAGTTTTTCTTAGAAGTGGATCTAGGAAAATTTAATTTTACTTCAAAT
 5' AATCAATCTAAAGTATATATGAGTAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCAT
 5900
 3' TTAGTTAGATTTTCATATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTA

Amp res

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5' AGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGCGAGACCCACGCTCACC GGCT
 6000
 3' TCAACGGACTGAGGGG CAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGGTCACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGA
 Amp res

5' CCAGATTTATCAGCAATAAAC CAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATGTTGCCGGG
 6100
 3' GGTCTAAATAGTTCGTTATTTGGTTCGGTTCGGCCTTCCCGGCTCGCGTCTTCCAGGACGTTGAAATAGGCGGAGGTAGGTGAGATAATTAACAACGGCCC
 Amp res

5' AAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTGTCATGCTACAGGCATCGTGGTGTACGCTCGTTCGTTGGTATGGCTTCATT
 6200
 3' TTCGATCTCATTCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTGCAGAGCAGAAACCATAACCGAAGTAA
 Amp res

5' CAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCTCCGATCGTTGTCAGAAGTAAG
 6300
 3' GTCGAGGCCAAGGGTGTAGTTCGCTCAATGTACTAGGGGTACAACAGTTTTTTCGCCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTC
 Amp res

5' TTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAAATCTCTTACTGTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGT GAGTACTCAA
 Scal
 6400
 3' AACCGGCGTACAATAGTGAGTACCAATACCGTTCGTGACGTATTAAGAGAATGACAGTACGTTAGGCATTCTACGAAAAGACACTGACCACTCATGAGTT
 Amp res

5' CCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGT
 6500
 3' GGTTCAGTAAGACTCTTATCACATACGCGCTGGCTCAACGAGAACGGGCGCAGTTATGCCCTATTATGGCGCGGTGTATCGTCTTGAAATTTTCACGA
 Amp res

5' CATCATTGAAAACGTTCTTCGGGGCGAAAACCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGACCCCACTGATCTTCA
 6600
 3' GTAGTAACCTTTTGCAAGAAGCCCGCTTTTGAGAGTTCTTAGAATGGCGCAACTCTAGGTCAAGCTACATTGGGTGAGCACGTGGGTGACTAGAAGT
 Amp res

5' GCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAAAGGAAGGCAAAATGCCGCAAAAAAGGAATAAGGGCGACACGGAATGTTGAATACTCA
 6700
 3' CGTAGAAAATGAAAGTGGTTCGCAAGACCCACTCGTTTTTGTCTTCCGTTTTTACGGCGTTTTTCCCTTATCCCGCTGTGCCTTTACAACCTTATGAGT
 Amp res

5' TACTCTTCTTTTCAATATTATGAAGCATTATCAGGGTATGTCTCATGAGCGGATACATATTGAATGTATTTAGAAAAATAAACAAATAGGGGT
 6800
 3' ATGAGAAGGAAAAAGTTATAATAACTTCGTAATAGTCCCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAATCTTTTTATTTGTTTATCCCA
 Amp res

5' TCCGCGCACATTTCCCGAAAAAGTGCCACCTGACGTCTAAGAAACCATTATATCATGACATTAACCTATAAAAAATAGGCGTATCACGAGGCCCTTTCGT
 6900
 3' AGGCGCGTGTAAAGGGGCTTTTACGGTGGACTGCAGATCTTTTGGTAATAATAGTACTGTAATTGGATATTTTATCCGCATAGTGTCCGGGAAAGCA
 Amp res

5' CTCGCGGTTTTCGGTGTGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCC
 7000
 3' GAGCGCGAAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTCGAGGGCTCTGCCAGTGTGCAACAGACATTCGCCTACGGCCCTCGTCTGTTTCGGG
 Amp res

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o
                                     NdeI
                                     |
5'  GTCAGGGCGCGTCAGCGGGTGTGGCGGGTGTGCGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTA
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 7100
3'  CAGTCCCGCGCAGTCGCCACAACCGCCACAGCCCCGACCGAATTGATACGCCGTAGTCTCGTCTAACATGACTCTCACGTGGTATACGCCACACTTTA
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'  ACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTA
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 7200
3'  TGGCGTGTCTACGCATTCCTCTTTTATGGCGTAGTCCGCGGTAAGCGGTAAGTCCGACGCGTTGACAACCCTTCCCGCTAGCCACGCCCGGAGAAGCGAT
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'  TTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTA
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 7300
3'  AATGCGGTCGACCGCTTTCCTTACACGACGTTCCGCTAATTCAACCCATTGCGGTCCCAAAGGGTCAGTGTGCAACATTTT
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'  TGGTGCATGCAAGGAGATGGCGCCCAACAGTCCCCGGCCACGGGGCCTGCCACCATACCCACGCCGAAACAAGCGCTCATGAGCCGAAGTGGCGAGCC
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 7400
3'  ACCACGTACGTTCTCTACCGCGGTTGTCAGGGGGCCGGTGCCCGGACGGTGGTATGGGTGCGGCTTTGTTTCGCGAGTACTCGGGCTT
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
                                     SgrAI
                                     |
5'  CGATCTTCCCATCGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCCGGTGTGCGCGCCACGATGCGTCCGGCGTAGAGGCGATTAG
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 7500
3'  GCTAGAAGGGGTAGCCACTACAGCCGCTATATCCGCGGTCGTTGGCGTGGACACCGCGCCACTACGCGCGTGTACGCAGGCCGCATCTCCGCTAATC
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'  TCCAATTTGTTAAAGACAGGATATCAGTGGTCCAGGCTCTAGTTTTGACTCAACAATATCACCAGCTGAAGCCTATAGAGTACGAGCCATAGATAAAAATA
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 7600
3'  AGGTAAACAATTTCTGTCTATAGTCACCAGGTCGAGATCAAAACTGAGTTGTTATAGTGGTCGACTTCGGATATCTCATGCTCGGTATCTATTTTAT
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5'  AAAGATTTTATTTAGTCTCCAGAAAAAGGGGGAA
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  TTTCTAAAATAAATCAGAGGTCTTTTCCCCCTT
o  +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o

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