Wed Apr 05, 2023 8:52 JST
pTRE_VEGF_IRES_EGFP.ape

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             110       120       130       140       150       160       170       180       190       200
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             210       220       230       240       250       260       270       280       290       300
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             310       320       330       340       350       360       370       380       390       400
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                       >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
                       CMV enhancer

             410       420       430       440       450       460       470       480       490       500
               *         *         *         *         *         *         *         *         *         *
  401 CCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAG 500
      >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
      CMV enhancer

             510       520       530       540       550       560       570       580       590       600
               *         *         *         *         *         *         *         *         *         *
  501 TACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTA 600
      >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
      CMV enhancer

             610       620       630       640       650       660       670       680       690       700
               *         *         *         *         *         *         *         *         *         *
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      >>>>>>>>>>>>>>>>>>>>>
      CMV enhancer

             710       720       730       740       750       760       770       780       790       800
               *         *         *         *         *         *         *         *         *         *
  701 ACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACG 800

             810       820       830       840       850       860       870       880       890       900
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  801 GTGGGAGGTCTATATAAGCAGCGCGTTTTGCCTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACT 900
                                        >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
                                        HIV-1_5'LTR

             910       920       930       940       950       960       970       980       990      1000
               *         *         *         *         *         *         *         *         *         *
  901 GCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCA 1000
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      HIV-1_5'LTR

            1010      1020      1030      1040      1050      1060      1070      1080      1090      1100
               *         *         *         *         *         *         *         *         *         *
 1001 GTGTGGAAAATCTCTAGCAGTGGCGCCCGAACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGCG 1100
      >>>>>>>>>>>>>>>>>>>
      HIV-1_5'LTR

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                                   HIV-1_psi

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               *         *         *         *         *         *         *         *         *         *
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                                                                                        HIV-1 Rev response element_RRE

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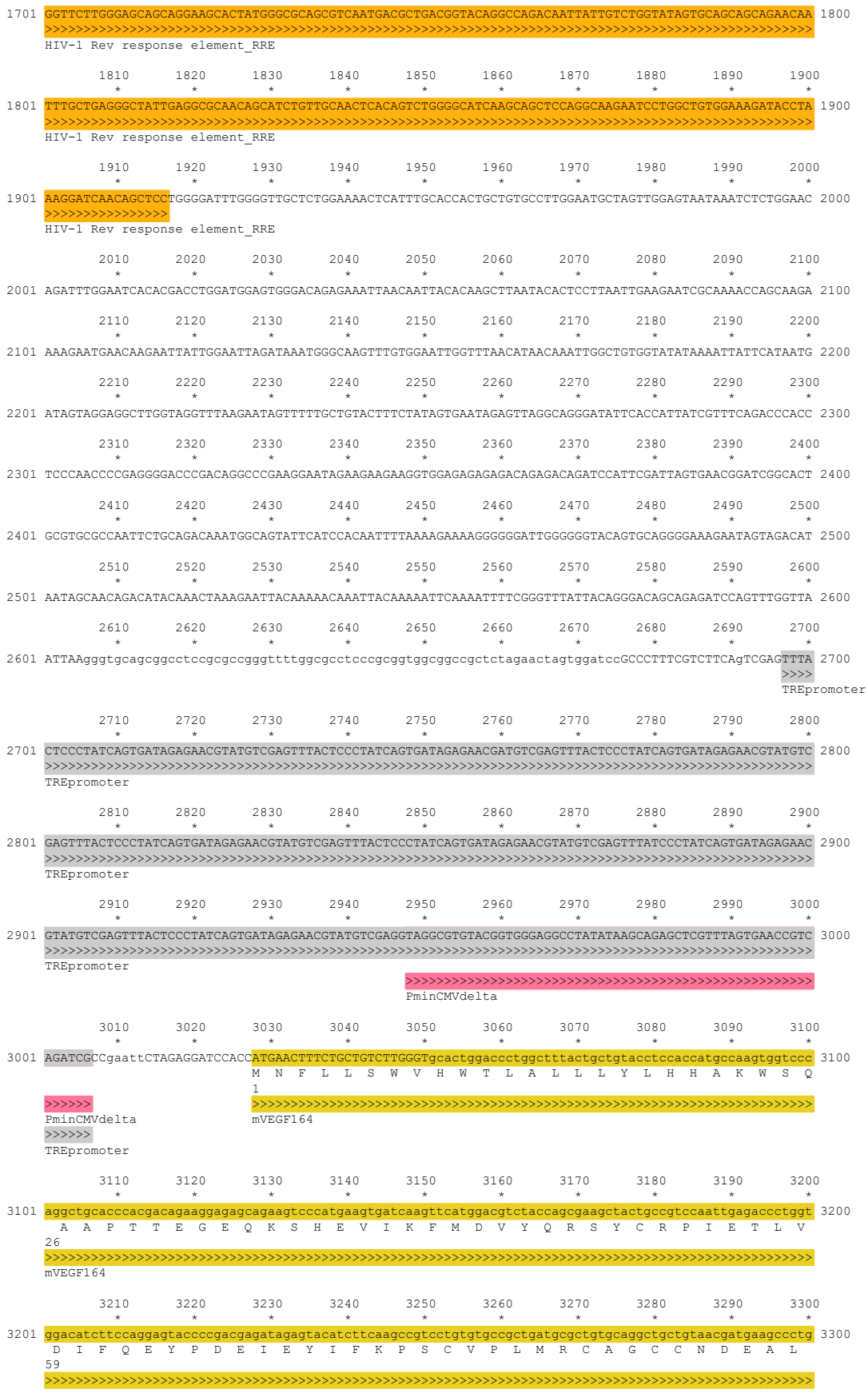
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HIV-1 Rev response element_RRE
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HIV-1 Rev response element_RRE
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TREpromoter
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TREpromoter
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TREpromoter
PminCMVdelta
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mVEGF164
TREpromoter
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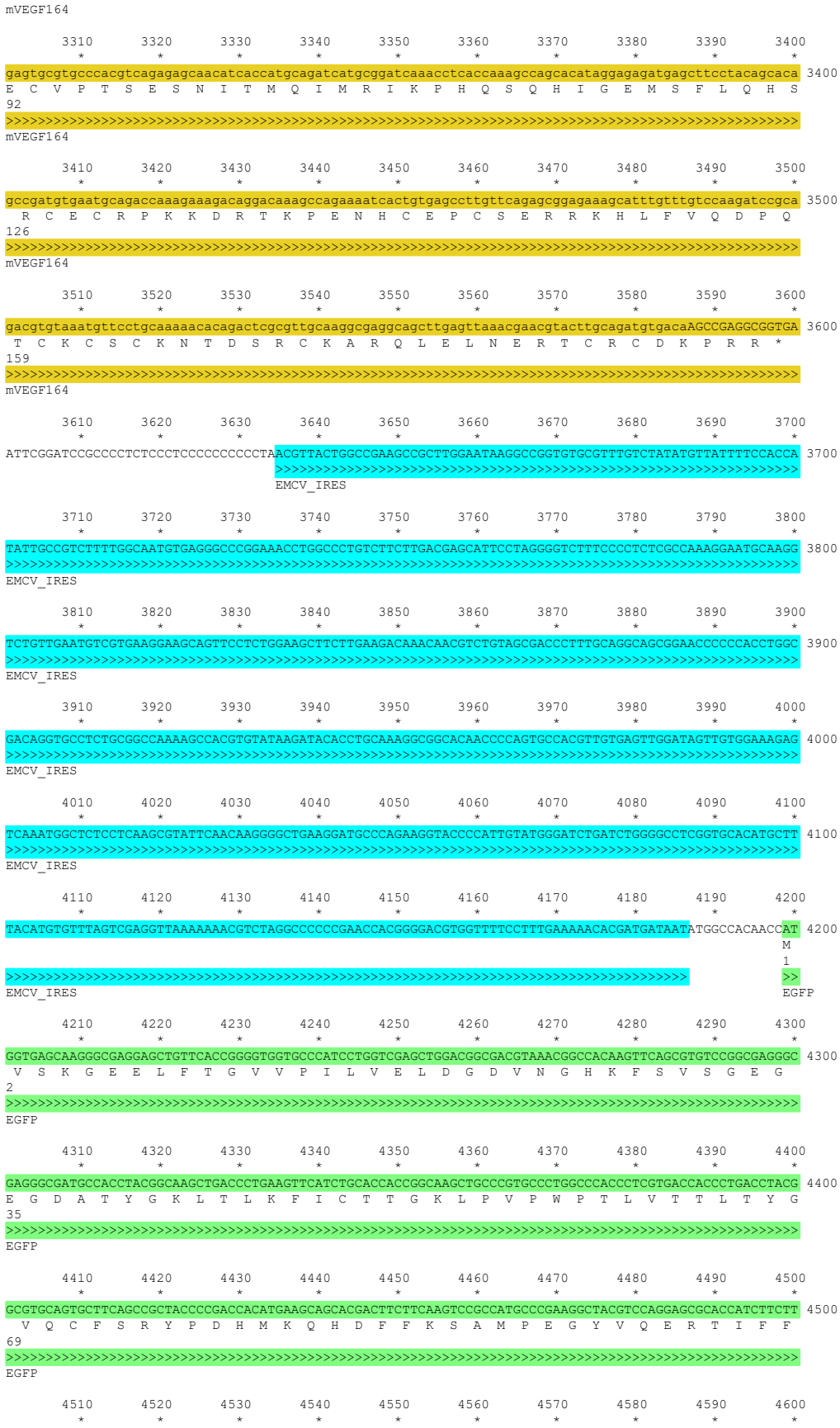
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EGFP
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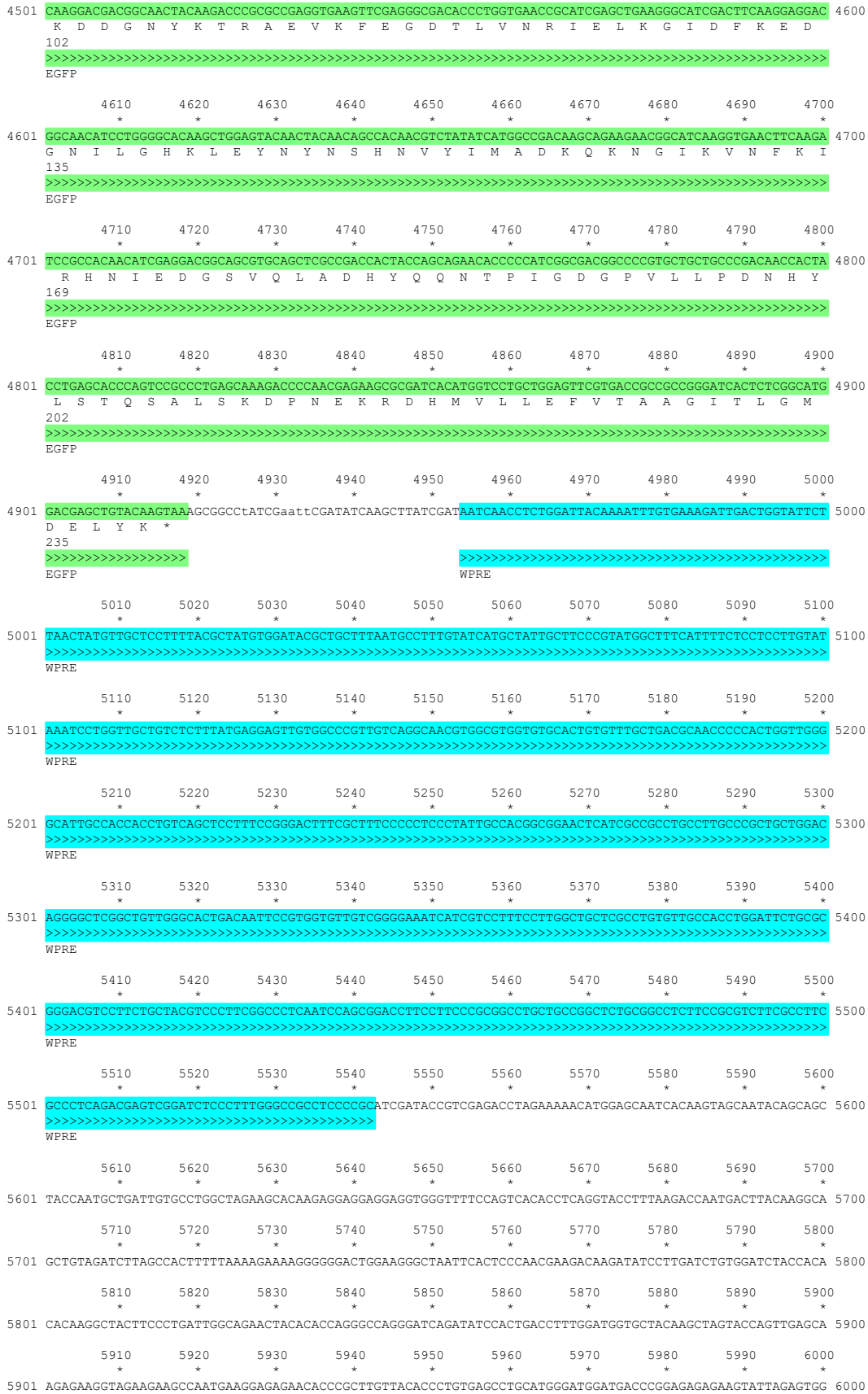
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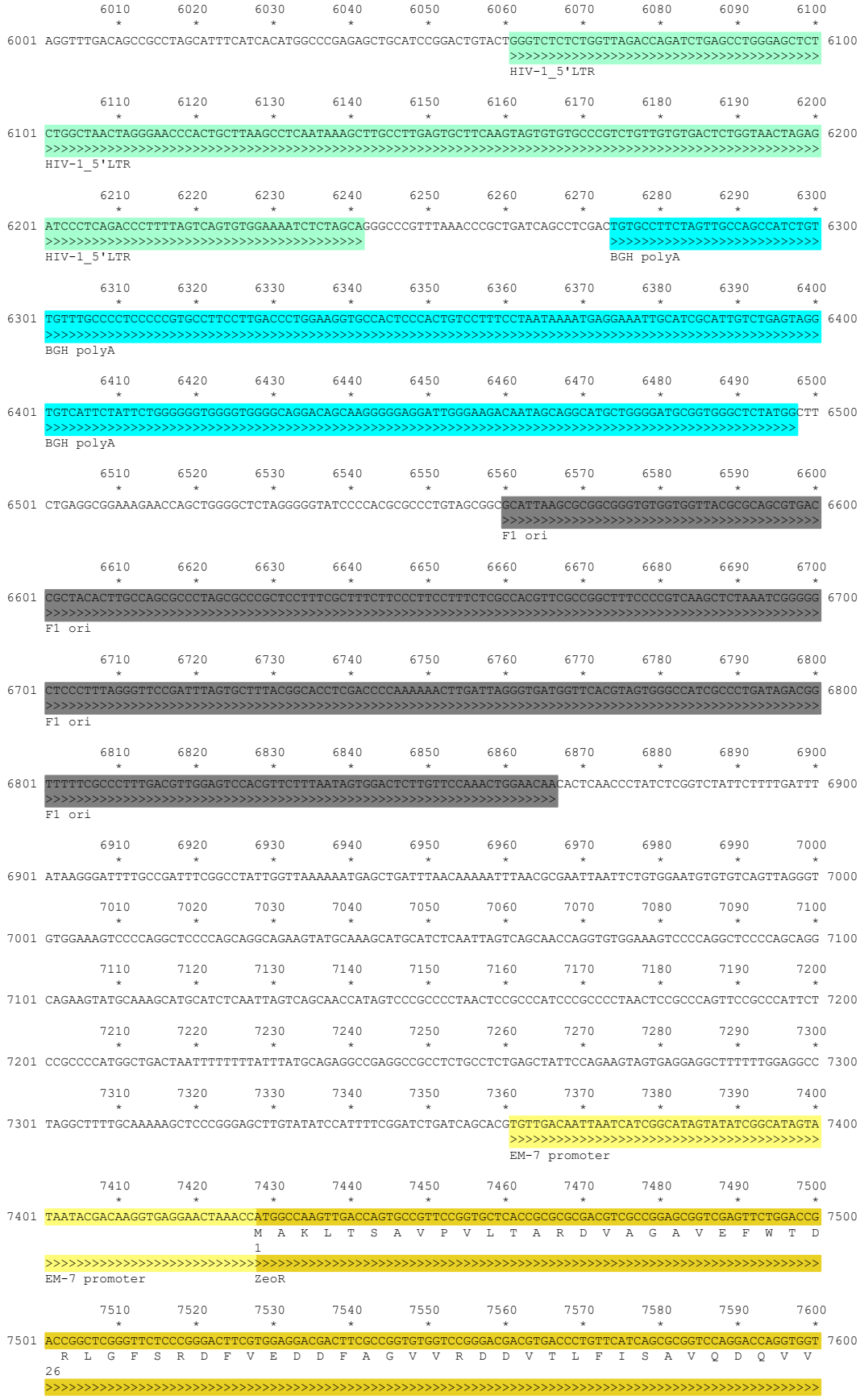
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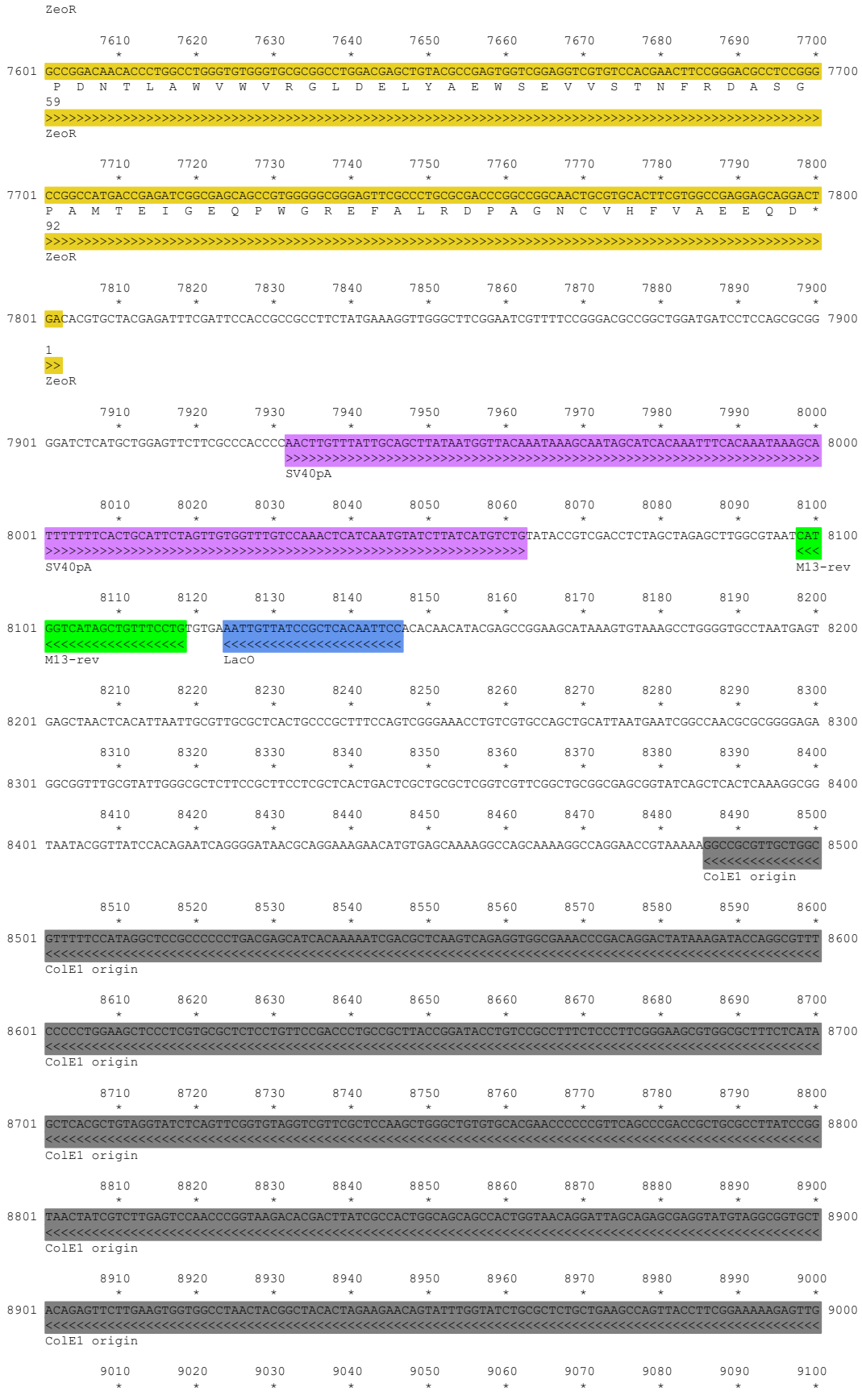
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59
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ColE1 origin
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8501 GTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTT 8600
ColE1 origin
8610 8620 8630 8640 8650 8660 8670 8680 8690 8700
8601 CCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATA 8700
ColE1 origin
8710 8720 8730 8740 8750 8760 8770 8780 8790 8800
8701 GCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGG 8800
ColE1 origin
8810 8820 8830 8840 8850 8860 8870 8880 8890 8900
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ColE1 origin
8910 8920 8930 8940 8950 8960 8970 8980 8990 9000
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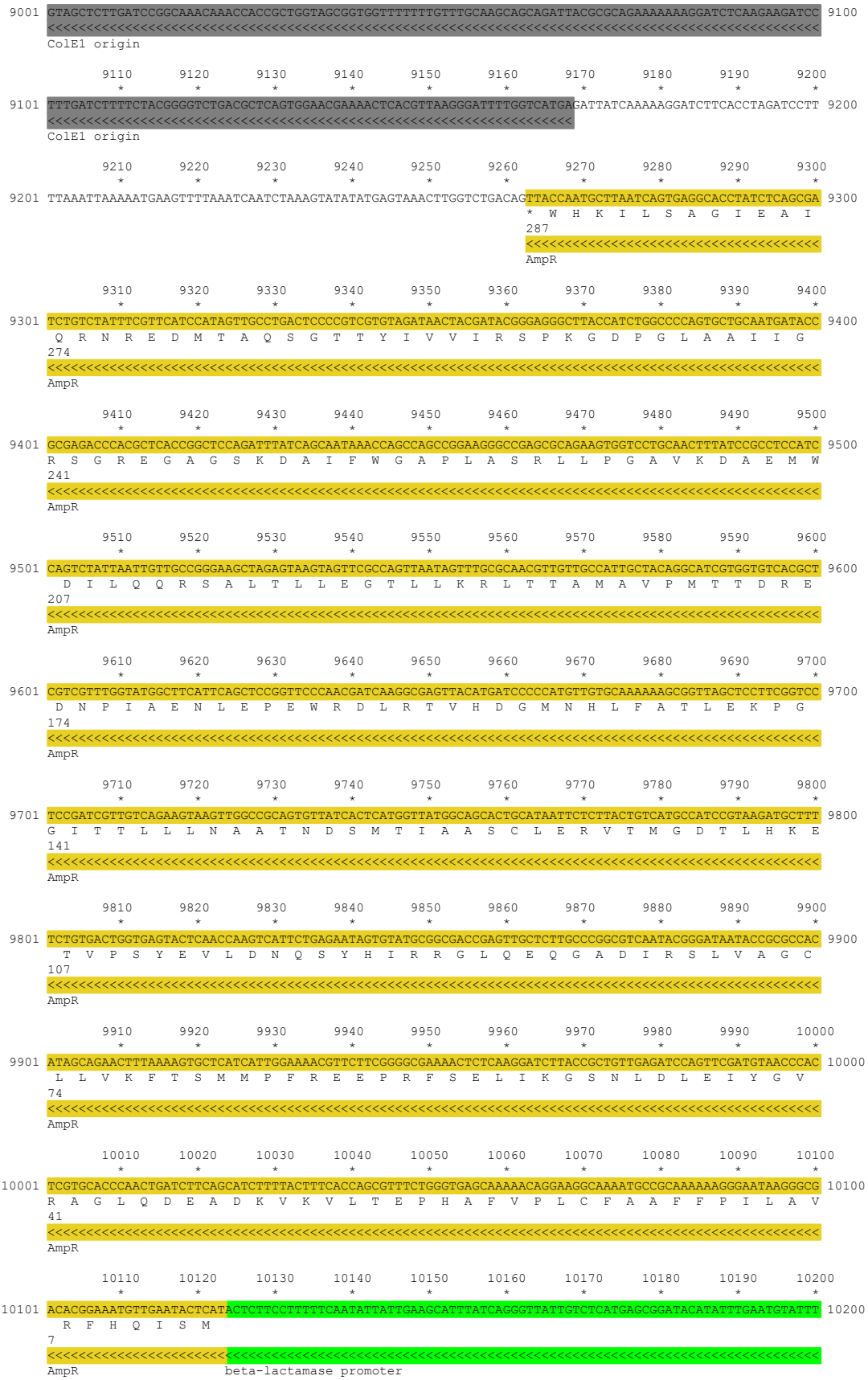
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ColE1 origin
9201 TTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGA 9300
* W H K I L S A G I E A I
287
AmpR
9301 TCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACC 9400
Q R N R E D M T A Q S G T T Y I V V I R S P K G D P G L A A I I G
274
AmpR
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207
AmpR
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D N P I A E N L E P E W R D L R T V H D G M N H L F A T L E K P G
174
AmpR
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G I T T L L L N A A T N D S M T I A A S C L E R V T M G D T L H K E
141
AmpR
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T V P S Y E V L D N Q S Y H I R R G L Q E Q G A D I R S L V A G C
107
AmpR
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L L V K F T S M M P F R E E P R F S E L I K G S N L D L E I Y G V
74
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41
AmpR
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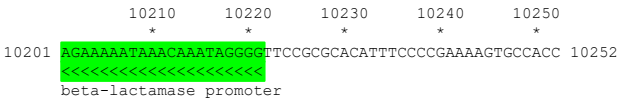
7
AmpR beta-lactamase promoter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beta-lactamase promoter