Figure S2. Nucleotidic alignment of 15 APOSTART cDNA and 8 APOSTART genomic clones.

Section 1

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                    (1) 1         10        20        30        40        50        60        70        80        90        100       110       120       134
APOSTART 1          (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART 2          (1) ATGGTGCGGTACGGCCGGCGCAAGATCGGTAGGTCCTTCTTCCACACACGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_3          (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_4          (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_5          (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_6          (1) ATGGTGCGGTACGGCCGGCGCAAGATCGGTAGGTCCTTCTTCCACACGCGCTACTTCGTGCTCGAGTCCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART 7          (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_8          (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_9          (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_10         (1) ATGGTGCGGTACGGCCGGCGCAAGATCGGTAGGTCCTTCTTCCACACACGTTAATTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_11         (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_12         (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_14         (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_15         (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_13         (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATG-----------------------
APOSTART_1_GEN      (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGTA----AATTATTCGATC
APOSTART_2_GEN      (1) ATGGTGCGGTACGGCCGGCGCAAGATCGGTAGGTCCTTCTTCCACACACGCTACTTCGTGCTCGAGGGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGTA----AATTATTCAATC
APOSTART_5_GEN      (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGCC----CATCATTCCATC
APOSTART_6_GEN      (1) ATGGTGCGGTACGGCCGGCGCAAGATCGGTAGGTCCTTCTTCCACACGCGCTACTTCGTGCTCGAGTCCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGTA----C-----------
APOSTART_7_GEN      (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGTATGTAAATTATTCGATC
APOSTART_8_GEN      (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGTA----AATTATTCGATC
APOSTART_10_GEN     (1) ATGGTGCGGTACGGCCGGCGCAAGATCGGTAGGTCCTTCTTCCACACACGTTAATTCGTGCTCGAGAGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGTA----AATTATTCGATC
APOSTART_12_GEN     (1) ATGGTGCGCTACGGCCGGCGCAAGATCGGCAGGTCAATCTTCCAAACGCGCTACTTCGTGCTCGAGACCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTACGTA----AATTATTCGATC
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Section 2

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                    (135) 135   140       150       160       170       180       190       200       210       220       230       240       250       268
APOSTART 1          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART 2          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_3          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_4          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_5          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_6          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART 7          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_8          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_9          (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_10         (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_11         (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_12         (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_14         (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_15         (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_13         (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN      (131) GAATGTCACAAGAAGAAAGCTTGGATGATTTTTGGGTTTGTCGTTCTCTGATCGACACAATGCTGTGTTTTCTTAAAGGGATACAATGCTGT---GTTCGTAATATGGATCATGGGAACTGTAATTTCGCCGAT
APOSTART_2_GEN      (131) GAATGTCACAAGAAGAAAGCTTGGATGATTTTTGGGTTTGTCGTTCTCTGATCGACACAATGCTGTGTTTTCTTAAAGGGACACAATGCTGT---GTTCGTAATATGGATCATGGGAACTGGAATTTCGCCGAT
APOSTART_5_GEN      (131) GGACTGAATCTGATCAAATTGTCGTGTTCATTGATCATCAAACCACGAACAAATTTTGGAAAATGTGAGAGATTTCTGGATGATCATTTTATTTACTGTTGTCTCATGATC--GATCCCAACAATGTATGGCGT
APOSTART_6_GEN      (120) ----G--------------CCACGCCCATCATTCCATCGGACTGAATCTGATCAAATTGCCCTCGTTGATAGATCAGTGTTGCTTATTGTTC---TCTGCTAATATGGAT--TGTGCATGGAATTCCGTTGTTG
APOSTART_7_GEN      (135) GAATTAATGCCACAGAAAGCTTGGACGATTTTTGG-TTTGTTGTTGTCTGATCGACACAATGCTGTGTGTTCTTAAAGGGACACAATGCTGTATTGTTCGTAATATGGATCATGGGAACTGGAATTTCGTCGAT
APOSTART_8_GEN      (131) GAATGTCACAAGAAGAAAGCTTGGATGATTTTTGGGTTTGTCGTTCTCTGATCGACACAATGCTGTGTTTTCTTAAAGGGATACAATGCTGT---GTTCGTAATATGGATCATGGGAACTGTAATTTCGCCGAT
APOSTART_10_GEN     (131) GAATGTCACAAGAAGAAAGCTTGGATGATTTTTGGGTTTGTCGTTCTCTGATCGACACAATGCTGTGTTTTCTTAAAGGGATACAATGCTGT---GTTCGTAATATGGATCATGGGAACTGTAATTTCGCCGAT
APOSTART_12_GEN     (131) GAATGTCACAAGAAGAAAGCTTGGATGATTTTTGGGTTTGTCGTTCTCTGATCGACACAATGCTGTGTTTTCTTAAAGGGATACAATGCTGT---GTTCGTAATATGGATCATGGGAACTGTAATTTCGCCGAT
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                (269) 269       280       290       300       310       320       330       340       350       360       370       380       390       402
APOSTART 1    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART 2    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_3    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_4    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_5    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_6    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART 7    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_8    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_9    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_10   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_11   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_12   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_14   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_15   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_13   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN (262) CAAATTGTAATTCTTATGAATGAATGCCAACCTGATAACTTTGTCTTACAGATGCCAATTAACTGTAATTCTTGGTCTGAAACAGAATTGTAATCTTTTTCCTCCCCTGACACATAAGAAATAATTTTATATTT
APOSTART_2_GEN (262) CAAATTGTAATTCTTATGAATGAATGCCAACCTGATAACTTTGTCTTACAGATGCCAATTAACTGTAATTCTTGGTCTGAAACAGAAATGTAATCTTTTTCCTCCCCTGACACATAAGAAATAATTTTATATTT
APOSTART_5_GEN (263) GTGTTTTCTGAAAGGGAGGCGCAATGCTGTCTTGCAAAGTGGAATTTCGCCGTTGAAATTTTTTCCACTTACAAGGATGTCGGCCCACCCGATAATTTTATCTC-----ACCAATGTCAATTAATTGTAAACTG
APOSTART_6_GEN (231) AAATTTTCCAATTCAAAGGATGTCGGCCCACCGGATAAATCTATCTCACCAATGTCAATTAA-------------------------TTGTAAACTTTGTGCTCCTCTGACAGATAAAAAGTTTAAAACTGGTT
APOSTART_7_GEN (268) CAAATTGCAGTTCTTATGAATGAATGCCAACCTGACAACTTTGTCTTACATATGCCAATTAACTGTAATTCTTGGTGTGAAATAGAGTTGTAATCTTTTTTCTCCCCTGACACATCAGAATTAGTTTTATAGTT
APOSTART_8_GEN (262) CAAATTGTAATTCTTATGAATGAATGCCAACCTGATAACTTTGTCTTACAGATGCCAATTAACTGTAATTCTTGGTCTGAAACAGAATTGTAATCTTTTTCCTCCCCTGACACATAAGAAATAATTTTATATTT
APOSTART_10_GEN (262) CAAATTGTAATTCTTATGAATGAATGCCAACCTGATAACTTTGTCTTACAGATGCCAATTAACTGTAATTCTTGGTCTGAAACAGAATTGTAATCTTTTTCCTCCCCTGACACATAAGAAATAATTTTATATTT
APOSTART_12_GEN (262) CAAATTGCAGTTCTTATGAATGAATGCCAACCTGACAACTTTGTCTTACATATGCCAATTAACTGTAATTCTTGGTGTGAAATAGAGTTGTAATCTTTTTTCTCCCCTGACACATCAGAATTAGTTTTATAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Section 4
                (403) 403     410       420       430       440       450       460       470       480       490       500       510       520       536
APOSTART 1    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART 2    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_3    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_4    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_5    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_6    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART 7    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_8    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_9    (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_10   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_11   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_12   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_14   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_15   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_13   (112) ----------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN (396) CTTTCAAAAGTATATTTTCT-GCA--TTTTAATTATAATTCTGATATCACTATTTAAT------GATATTCAAAAATTTGATCATGCTGTCTGATGGCTAAATTCAGATAGCACCTCGGAACCTCTGGTTTTTT
APOSTART_2_GEN (396) CTTTCAAAAGTATATTTTCCAGCATTTTTTTATTATAATTCTGATATCACTATTTAAT------GAAATTCAAAAATTTGATCATGATGTCTGATGGCTAAATTCAGATAGCACCTCGGAACCTCTGGTTTTCT
APOSTART_5_GEN (392) TGTGCTTTTTACCTGCATTCATGTTATTTCTGATGAACTGATGAGATTA----TTGATCCTAATGTGATTCGAAAAGATGATGCTGC----------CTAAATTCGAAAAG-A-----------TTTGG---C-
APOSTART_6_GEN (340) TTACCATCATTCATGTT--A------TTTCGGATGAACTGATGAGGTTACTA----ACCCTGATATGATTCGAAAAGATTATTCTGCA----------TAAGTTCCAGTAGCACACTAGA-------TTTG---
APOSTART_7_GEN (402) GTTTCAATAATAGATTTTTCTGCA-TTTTTTGTTAGAATTCTGATATCACTATTTGATCGTAAAGAAATTCCAAAAGTTTATCGTGCTGTCTGATGGCTAAATTCAGATAGCACCTCGGAACCTCTGGTTTTTT
APOSTART_8_GEN (396) CTTTCAAAAGTATATTTTCT---GCATTTTAATTATAATTCTGATATCACTATTTAAT------GATATTCAAAAATTTGATCATGCTGTCTGATGGCTAAATTCAGATAGCACCTCGGAACCTCTGGTTTTTT
APOSTART_10_GEN (396) CTTTCAAAAGTATATTTTCT-GCA--TTTTAATTATAATTCTGATATCACTATTTAAT------GATATTCAAAAATTTGATCATGCTGTCTGATGGCTAAATTCAGATAGCACCTCGGAACCTCTGGTTTTTT
APOSTART_12_GEN (396) GTTTCAATAATAGATTTTTC-TGCATTTTTTGTTAGAATTCTGATATCACTATTTGATCGTAAAGAAATTCCAAAAGTTTATCGTGCTGTCTGATGGCTAAATTCAGATAGCACCTCGGAACCTCTGGTTTTTT
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Section 5

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                  (537) 537       550       560       570       580       590       600       610       620       630       640       650       660       670
APOSTART 1        (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAA--------------------------
APOSTART 2        (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATCGATGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAA--------------------------
APOSTART_3        (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAA--------------------------
APOSTART_4        (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAA--------------------------
APOSTART_5        (112) ------------------------------------GTGCCTCTTAAGTCTCTGCTAATCGACGGGAACTGCAGGGTGGAGGACAGAGGACTGAAAACACATCATGGGCAA--------------------------
APOSTART_6        (112) ------------------------------------GTGCCTCTAAAGTCGCTGCTAATCGACGGGAACTGCAGGGTGGAGGACAGAGGACTGAAAACACATCATGGGCAA--------------------------
APOSTART 7        (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAA--------------------------
APOSTART_8        (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAA--------------------------
APOSTART_9        (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAA--------------------------
APOSTART_10       (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAA--------------------------
APOSTART_11       (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAA--------------------------
APOSTART_12       (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAA--------------------------
APOSTART_14       (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAA--------------------------
APOSTART_15       (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAA--------------------------
APOSTART_13       (112) ------------------------------------GTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAA--------------------------
APOSTART_1_GEN    (521) GTCAAGTGTTTATTAAGACTTG-TGTACATACAGGTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAAGTGAGTCGGCTTTT---CCCTTTTC
APOSTART_2_GEN    (524) GTCAAGTGTTTATTAAGACTTG-TGTACATACAGGTGCCGCTGAAGTCGCTGCTAATCGATGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAAGTGAGTCGGCTTTT---CCCTTTTC
APOSTART_5_GEN    (496) ----AGTTTTCATTAAGAAATG-TGTACATGCAGGTGCCTCTTAAGTCTCTGCTAATCGACGGGAACTGCAGGGTGGAGGACAGAGGACTGAAAACACATCATGGGCAAGTGAGTTTGCTATTATTCTCTTTTC
APOSTART_6_GEN    (442) GC--AATTTTCATTAAGAAATT-TGTACATGCAGGTGCCTCTAAAGTCGCTGCTAATCGACGGGAACTGCAGGGTGGAGGACAGAGGACTGAAAACACATCATGGGCAAGTGAGTTTGCTATTATTCTCTTTTC
APOSTART_7_GEN    (535) GTTAAGTGTTTATTAAGACTTTCTATACATACAGGTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAAGTGAGTCTGCTTTT---CCCTTTTC
APOSTART_8_GEN    (521) GTCAAGTGTTTATTAAGACTTG-TGTACATACAGGTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAAGTGAGTCGGCTTTT---CCCTTTTC
APOSTART_10_GEN   (521) GTCAAGTGTTTATTAAGACTTG-TGTACATACAGGTGCCGCTGAAGTCGCTGCTAATAGACGGGAACTGCAGGGTGGAGGATAGAGGGCTCAAAACACATCATGGGCAAGTGAGTCGGCTTTT---CCCTTTTC
APOSTART_12_GEN   (529) GTTAAGTGTTTATTAAGACTTTCTATACATACAGGTGCCGCTGAAGTCGCTGCTAATCGATGGGAATTGCAGGGTGGAGGATAGAGGGCTGAAAACACATCATGGGCAAGTGAGTCTGCTTTT---CCCTTTTC
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Section 6

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                  (671) 671       680       690       700       710       720       730       740       750       760       770       780       790       804
APOSTART 1        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART 2        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_3        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_4        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_5        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_6        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART 7        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_8        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_9        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_10       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_11       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_12       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_14       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_15       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_13       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN    (651) CGACAACACGAGCTTGCTCGCTGTTCCTTGTTTTGCATTCTGAATGTTGGGCGTCGAATTATCATGATGAAGCTGTCGAACTGTAGATGTTACTATATACTACTACAAGAATCTTAGTAGATGTTGTATTTGCT
APOSTART_2_GEN    (654) CACCAACACGAGCTTGCTCGCTGTTCCTTGTTTTGCATTCTGAATGTTGGGCCTCAAATTATCTCGATGAAGCTGTCGAACTGTAGATGTTACTATATACAACTACCAGAATCTTAGTACATGTTGTATTTGCT
APOSTART_5_GEN    (625) TGATAAGTGATAACACGACTAGTTTGCTTGCTGTTCCTTTTTTATATATTTGTTTGGATTCGCAATGCCG-GGTGTTGAATGATCTTGATGAGGGTGTCCAACAGTA--GATATTACTGCATCCTAGAGCAGGA
APOSTART_6_GEN    (573) CGATAACACGAG-TAGTATGCTCGCTGTTCCGTTTTTATATATTTGTTTGGATTCGAATAGTGGGTGTTGAATGATCTTGATGAGGGTGTCGAACTGT---A-------GATGTTACTGCATCCTAAAGCAGGA
APOSTART_7_GEN    (666) CGACAACATGAGCTTGCTCACTGTTCCTTGTTTTGCATTATGAATGTTGGGCATTGAATTATCTCGATGAAGCCGTCGAACTGTAGATGTTACTGTATCCCACTACAAGAATCTTAAGAGATGTTATATTTGCA
APOSTART_8_GEN    (651) CGACAACACGAGCTTGCTCGCTGTTCCTTGTTTTGCATTCTGAATGTTGGGCGTCGAATTATCATGATGAAGCTGTCGAACTGTAGATGTTACTATATACTACTACAAGAATCTTAGTAGATGTTGTATTTGCT
APOSTART_10_GEN   (651) CGACAACACGAGCTTGCTCGCTGTTCCTTGTTTTGCATTCTGAATGTTGGGCGTCGAATTATCATGATGAAGCTGTCGAACTGTAGATGTTACTATATACTACTACAAGAATCTTAGTAGATGTTGTATTTGCT
APOSTART_12_GEN   (660) CGACAACATGAGCTTGCTCACTGTTCCTTGTTTTGCATTATGAATGTTGGGCATTGAATTATCTCGATGAAGCCGTCGAACTGTAGATGTTACTGTATCCCACTACAAGAATCTTAAGAGATGTTATATTTGCA
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Section 7

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                  (805) 805       810       820       830       840       850       860       870       880       890       900       910       920       938
APOSTART 1        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART 2        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_3        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_4        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_5        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_6        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART 7        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_8        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_9        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_10       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_11       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_12       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_14       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_15       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_13       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN    (785) CTTTAAAAAAAAATACGATTTCCTTAATTTATCTGTAGCTTAACCAAGAATTGTTCTCAGTCGTACTGCATTTGTTTGGAACAATTGTATATCCTACGATTCTGACAGTGTTAAATACTTAA-TCTTCCATGCA
APOSTART_2_GEN    (788) CTTTTAAAAAA--TACGATTTCCTTAATTTATCTGTAGCTTAACCAAAAATTGTTCTCAGTCGTACTGCATTTGTTTGGAACATTTGTATATCCTACGATTCTGACAGTGTAAAATACTTAA-TCTTCCATGCA
APOSTART_5_GEN    (756) ATCCTAATAGTTTCTGGTTTTCCTTTTCATGTGAGAA-ATAATAGTTTTCTTCATTTATCCGTAGCTATCTTGATTCAGAATTGTCCTCATTCGTATGATACTGACAGTATAGAATACTTAGTTCCTCCATGCA
APOSTART_6_GEN    (696) ATCCTAATAGTTTTTGGTTTTCCTCTTCTGCGAGAAATAATAGTTTTCTTCATTTATCGGTAG--CTAGCTTGATTCAGAACTGTCCTCATTCCTATGATTCTGACAGTATAGAATACTTAGATCTTTCATGCA
APOSTART_7_GEN    (800) CTTTAAAAGAAA-TACGATTTCCTAAATTGATCTGTAGCTTAACCAAGAATTGTTCTCAGTCGTACTGCATTTGTTTGGAACAATTATATATCCTACGATTCTGACAGTGTAAAATACTTAAATCTTCCATGCA
APOSTART_8_GEN    (785) CTTTAAAAAAAAATACGATTTCCTTAATTTATCTGTAGCTTAACCAAGAATTGTTCTCAGTCGTACTGCATTTGTTTGGAACAATTGTATATCCTACGATTCTGACAGTGTTAAATACTTAA-TCTTCCATGCA
APOSTART_10_GEN   (785) CTTTAAAAAAAAATACGATTTCCTTAATTTATCTGTAGCTTAACCAAGAATTGTTCTCAGTCGTACTGCATTTGTTTGGAACAATTGTATATCCTACGATTCTGACAGTGTTAAATACTTAA-TCTTCCATGCA
APOSTART_12_GEN   (794) CTTTAAAAGAAA-TACGATTTCCTAAATTGATCTGTAGCTTAACCAAGAATTGTTCTCAGTCGTACTGCATTTGTTTGGAACAATTATATATCCTACGATTCTGACAGTGTAAAATACTTAAATCTTCCATGCA
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Section 8

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                  (939) 939       950       960       970       980       990       1000      1010      1020      1030      1040      1050      1060      1072
APOSTART 1        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART 2        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_3        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_4        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_5        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_6        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART 7        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_8        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_9        (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_10       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_11       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_12       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_14       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_15       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_13       (187) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN    (918) CACA-TTATGATCACTTCTTCAGAAACATTCA-GTGTCCTTTTTTTTGGCAACATGAAGAGCTGATTTTTGTAATGATCTATGTAGCTTATACATGCATT-TTTTCCATGATCACCGTAATTTTCTTACCCTTT
APOSTART_2_GEN    (919) CACA-TTATGATCACTTCTTCAGAAACATTCA-GTGTCCTTTTATTTTGG--CA-------------------AC---ATGAAGAGCTTATACATGCATT-TTTTCCATGATCACCATAATGTTCTTACCCTTT
APOSTART_5_GEN    (889) CACAGTTACGTCGACTTCTTCAGAAACATTCAAGTGTTC--TTTTTTGGTAAAAGGAGCATCTGATTTTTGTAATGATCTATATG----------------TA---GCTTA-----------------------
APOSTART_6_GEN    (828) CACCGTTATGTTGACTTCTTCAGAATCATTCAAGTGTTCTTTTTTTTAGGCAAAGGAAGAGCTGATTTTCGTAATGATCTATATGTAGCTTATTTATACAGTTTTCCGTGATCAGTATAATATTCCTGCCCCCT
APOSTART_7_GEN    (933) CACA-TTATGATCACTTCTTCAGAAACATTCAGTGTTC--TTTTTTTGGCAACATGAAGAGCTGATTTTTTTAATGATCTATGTAGCTTATTCATGCATT-TTTTCCATGATCACCGTAATGTTCTTACCCTTT
APOSTART_8_GEN    (918) CACA-TTATGATCACTTCTTCAGAAACATTCA-GTGTCCTTTTTTTTGGCAACATGAAGAGCTGATTTTTGTAATGATCTATGTAGCTTATACATGCATT-TTTTCCATGATCACCGTAATTTTCTTACCCTTT
APOSTART_10_GEN   (918) CACA-TTATGATCACTTCTTCAGAAACATTCA-GTGTCCTTTTTTTTGGCAACATGAAGAGCTGATTTTTGTAATGATCTATGTAGCTTATACATGCATT-TTTTCCATGATCACCGTAATTTTCTTACCCTTT
APOSTART_12_GEN   (927) CACA-TTATGATCACTTCTTCAGAAACATTCA-GTGTTCTTTTTTT-GGCAACATGAAGAGCTGATTTTTTTAATGATCTATGTAGCTTATTCATGCATT-TTTTCCATGATCACCGTAATGTTCTTACCCTTT
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Section 9

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                    (1073) 1073      1080      1090      1100      1110      1120      1130      1140      1150      1160      1170      1180      1190      1206
APOSTART 1          (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART 2          (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_3          (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_4          (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAAAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_5          (187) ------------------------------------------------------------AGCACCAAATCACGGTTTGTTCTAAAGCTGAGAGCCCTTCAACACTG--TCAC------------------------
APOSTART_6          (187) ------------------------------------------------------------ATGACTTATGTCCTGTGCGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART 7          (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_8          (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_9          (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_10         (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_11         (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_12         (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_14         (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAAAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_15         (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAAAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_13         (187) ------------------------------------------------------------ATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCAC------------------------
APOSTART_1_GEN     (1049) ACATTTTCATATATTTGCTTTTCTGTTCTCATCCCTCCTTTTCT---ATATTTTCAGATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCACG--GTTTGTTCTGAAGCTGAGAAC
APOSTART_2_GEN     (1026) ACATTTTCCTATATTTGCTTTTCTGTTCTCATCCCTCCTTTTCT---ATATTTTCAGATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCACG--GTTTGTTCTAAAGCTGAGAAC
APOSTART_5_GEN      (979) ---TTTTGCTAAATTCG-------GTTATCATCGGCTCTTTCC----ATCTTATCAGAGCACCAAATCACGGTTTGTTCTAAAGCTGAGAGCCCTTCAACACTG--TCACTTTGTTTGTTCTAAAGCTGAGAGC
APOSTART_6_GEN      (962) TACATTTTCTAAATTCA--------TTCTCATCCCTCTTT-----CCATCTTATCAGATGACTTATGTCCTGTGCGTTTATAACAAGAAAGAAAAGGAGCACCAAATCACG--GTTTGTTCTAAAGCTGAGAGC
APOSTART_7_GEN     (1063) ACATTTTCCTATATTTGCTTTTCTGTTCTCATCCCTCCTTTTCAC---TATTTTCAGATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCACG--GTTTGTTCTGAAGCTGAGAAC
APOSTART_8_GEN     (1049) ACATTTTCATATATTTGCTTTTCTGTTCTCATCCCTCCTTTTCTTCCATCTTATCAGATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCACG--GTTTGTTCTAAAGCTGAGAGC
APOSTART_10_GEN    (1049) ACATTTTCATATATTTGCTTTTCTGTTCTCATCCCTCCTTTTCT---ATATTTTCAGATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCACG--GTTTGTTCTGAAGCTGAGAAC
APOSTART_12_GEN    (1057) ACATTTTCCTATATTTGCTTTTCTGTTCTCATCCCTCCTTTTCAC---TATTTTCAGATGATTTATGTCCTGTGTGTTTATAACAAGAAAGAAAAGGAGCACCAAATCACG--GTTTGTTCTGAAGCTGAGAAC
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Section 10

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                    (1207) 1207      1220      1230      1240      1250      1260      1270      1280      1290      1300      1310      1320      1330      1340
APOSTART 1          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART 2          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATTGATCAG-
APOSTART_3          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_4          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_5          (238) ----------------------------TT----------------------------------------TATGGGTGCATACGACATTGAAGATGCTCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_6          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCTCTAGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART 7          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCTCTGGCTTGGAAAAAGAAGATAGAACAGATCATCGATCAG-
APOSTART_8          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_9          (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_10         (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_11         (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_12         (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_14         (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_15         (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_13         (240) ------------------------------------------------------------------------GATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAG-
APOSTART_1_GEN     (1178) CCAC---------ACTATCACTTTTTGTTTCATTCAAATTTATGCCATA-ATTAATTTCATTCTCAGATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAGG
APOSTART_2_GEN     (1155) CCA-C--------ACTATCACTTTTTGTTTCATTCAAATTTATGCCATA-ATTAATTTCATTCTCAGATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATTGATCAGG
APOSTART_5_GEN     (1097) CCTTCAACACTGTCACTTTGTTCGTTATGTCATTCACATTTATGCCCTAGATAAATTTAATGCTCAGATGGGTGCATACGACATTGAAGATGCTCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAGG
APOSTART_6_GEN     (1081) CCTTCAACACTGTCACTTTGTTCGTTATGTCATTCACATTTATGCCCTAGATAAATTTAATGCTCAGATGGGTGCATATGACATTGAAGATGCTCTAGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAGG
APOSTART_7_GEN     (1192) CCACA---------CTATCAGTTTTTGTTTCATTTGGATGTATGCCATA-ATTAATTTCATTCTCAGATGGGTGCATATGACATTGAAGATGCTCTGGCTTGGAAAAAGAAGATAGAACAGATCATCGATCAGG
APOSTART_8_GEN     (1181) CCTTCAACACTGTCACTTTGTTCGTTATGTCATTCACATTTATGCCCTAGATTAATTTCATTCTCAGATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAGG
APOSTART_10_GEN    (1178) CCA----------CACTATCACTTTTTGTTTCATTCAAATTTATGCCATAATTAATTTCATTCTCAGATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAGG
APOSTART_12_GEN    (1186) CCA----------CACTATCAGTTTTTGTTTCATTTGGATGTATGCCATAATTAATTTCATTCTCAGATGGGTGCATATGACATTGAAGATGCGCTGGCTTGGAAAAAGAAGATAGAGCAGATCATCGATCAGG
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Section 11

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                  (1341) 1341      1350      1360      1370      1380      1390      1400      1410      1420      1430      1440      1450      1460      1474
       APOSTART 1  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART 2  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_3  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_4  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_5  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_6  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART 7  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_8  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_9  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_10  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_11  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_12  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_14  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_15  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_13  (307) ------------------------------------------------------------------------------------------------------------------------------------
 APOSTART_1_GEN (1302) TGCAGTAATG-ATTTGCTTCAGCGGAACTTGT-CAACAGTAAAATAATTTTAAATAAGATATCTGAGAGATGCTCAAATACG-----AGGCATTTATGTTCCATTTATTTCATGTTGGGTCCTGAAATAATCCC
 APOSTART_2_GEN (1279) TGCAGTAAGG-ATTTGCTTCAGCGGAACTTGT-CAACAGTAAAATAATTGTAAATAAGATATCTGAGAGATGCTCAAAT----C-GAGGCGTTTATGTTCCATTTATTTTCATGTTGGGTCCTGAAATAATCCC
 APOSTART_5_GEN (1231) TGCAGTAAGG-ATTAGCTTCAGTGGAACTTGT-----------------------------------ACAACAGTAACACTTTTAA-------CTTACATCCCTGAAAAATGCT---------AAAAAAAAAA
 APOSTART_6_GEN (1215) TGCAGTAAGG-ATTAGCTTCAGTGGAACTTGT-----------------------------------ACAACAGTAACACTTTTAAGTTTTAACTTACATCCCTGAGAAAATGCT---------AAAAAAAAT
 APOSTART_7_GEN (1316) TGCAGTAAGGGATTTTCTTCAGTGTAACTTGTACAACAGCAACACTTTCAAATAACATATATACTTGAAAATGCTAAAAAAAAAATGAGGCATTTGTGTCCCATTTATTTTCGTCTTCATCGTGAAATAATCGT
 APOSTART_8_GEN (1315) TGCAGTAATG-ATTTGCTTCAGCGGAACTTGT-CAACTACTTCGTGCTCGAGGGCAAGCTGCTCGCCTACTACAAGAAGAAGCCCAAGGACAGCATGGTGCCGCTGAAGTCATGTTGGGTCCTGAAATAATCCC
APOSTART_10_GEN (1302) TGCAGTAATG-ATTTGCTTCAGCGGAACTTGT-CAACAGTAAAATAATTTTAAATAAGATATCTGAGAGATGCTCAAATACG-----AGGCATTTATGTTCCATTTATTTCATGTTGGGTCCTGAAATAATCCC
APOSTART_12_GEN (1310) TGCAGTAATG-ATTTGCTTCAGCGGAACTTGT-CAACAGTAAAATAATTTTAAATAAGATATCTGAGAGATGCTCAAATACG-----AGGCATTTATGTTCCATTTATTTCATGTTGGGTCCTGAAATAATCCC
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Section 12

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                  (1475) 1475 1480      1490      1500      1510      1520      1530      1540      1550      1560      1570      1580      1590      1608
       APOSTART 1  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART 2  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_3  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_4  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_5  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_6  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART 7  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_8  (307) ------------------------------------------------------------------------------------------------------------------------------------
       APOSTART_9  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_10  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_11  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_12  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_14  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_15  (307) ------------------------------------------------------------------------------------------------------------------------------------
      APOSTART_13  (307) ------------------------------------------------------------------------------------------------------------------------------------
 APOSTART_1_GEN (1429) ATAGTTTGACAATTAAACACTAGAATGTATTGATGTACGATAAATCCTAGTGGTAGGACTAGCTGAAATAGTTTGGACTGTGTAGTGAATTTTATAAAATTAATGG-AAAGCTCTCCATGTTGTTTCTGTCGGA
 APOSTART_2_GEN (1406) ATAGTTTGACAATTAAACACTAGAATGTATTGATGTATGATAAATCCTAGTGGTAGGACTAGCTGAAATAGTTTGGACTGTGTAGTGAATTATATAAAATTAGTGG-AAAACTCTCCATGTTGTTTCTGTCAGA
 APOSTART_5_GEN (1312) TGAGTTTGACAATTACACTGCAGGAAATCTTGATATACGATAAATCCTAGTGGTAGGACTAGTTGAAATGATCTGGATCATGTAGTGATTTCTATAGGATTAATGGGAAAATTCTCCATGTTGTTTCTGTCAAA
 APOSTART_6_GEN (1303) ATGAGTTGACAATTACACTGCAGGAAATCTTGATATACGATAAATCCTAGTGGTAGGACTAGTTGAAATGATCTGGATCATGTAGTGATTTCTATAGGATTAATGGGAAAATTCTCCATGTTGTTTCTTTCAAA
 APOSTART_7_GEN (1450) ATAGTTTGACAATTACACAGCAGGAACTCTTGATATACGATAAA-----GTGGTAGGACTAATTGAAATAATATGGATCATGTAGTGAATTTTA--AATCTAATAGTATAACTCTCCATGTTATTTCTATCAAA
 APOSTART_8_GEN (1447) ATAGTTTGACAATTAAACACTAGAATGTATTGATGTACGATAAATCCTAGTGGTAGGACTAGCTGAAATAGTTTGGACTGTGTAGTGAATTTTATAAAATTAATGG-AAAGCTCTCCATGTTGTTTCTGTCGGA
APOSTART_10_GEN (1429) ATAGTTTGACAATTAAACACTAGAATGTATTGATGTACGATAAATCCTAGTGGTAGGACTAGCTGAAATAGTTTGGACTGTGTAGTGAATTTTATAAAATTAATGG-AAAGCTCTCCATGTTGTTTCTGTCGGA
APOSTART_12_GEN (1437) ATAGTTTGACAATTAAACACTAGAATGTATTGATGTACGATAAATCCTAGTGGTAGGACTAGCTGAAATAGTTTGGACTGTGTAGTGAATTTTATAAAATTAATGG-AAAGCTCTCCATGTTGTTTCTATCAAA
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Section 13
                    (1609) 1609      1620      1630      1640      1650      1660      1670      1680      1690      1700      1710      1720      1730      1742
APOSTART 1          (307) ----------------------------CAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART 2          (307) ----------------------------CAGGACATTATGACAGCTAAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART_3          (307) ----------------------------CAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART_4          (307) -------------------------CAGCAGGACACTATGACAGCTAAAAACCGGAAAGCCTTTGCTTCGATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCT--------
APOSTART_5          (307) ----------------------------CAGGACACTATGACAGCTAAAAACCGCAAGGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGGG--------
APOSTART_6          (307) ----------------------------CAGGACACTATGACAGCTAAAAACCGCAAGGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGGG--------
APOSTART 7          (307) -------------------------CAGCAGGACACTATGACTGCTAAAAACCGCAAGGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART_8          (307) -------------------------CAGCAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART_9          (307) ----------------------------CAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART_10         (307) -------------------------CAGCAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART_11         (307) ------------------------------GACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCG--------
APOSTART_12         (307) -------------------------CAGCAGGACACTATGACAGCTAAAAACCGCAAAGCCTTTGCTTCGATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTTATTCTCAGATCATGACAGCGCT--------
APOSTART_14         (307) ----------------------------CAGGACACTATGACAGCTAAAAACCGGAAAGCCTTTGCTTCGATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCT--------
APOSTART_15         (307) ------------------------------GACACTATGACAGCTAAAAACCGGAAAGCCTTTGCTTCGATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCT--------
APOSTART_13         (307) ----------------------------CAGGACACTATGACAGCTAAAAACCGCAAAGCCTTTGCTTCGATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCT--------
APOSTART_1_GEN     (1562) TATCACATCTCTACATTCTTGCAGCAGCAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCGTATGTGAC
APOSTART_2_GEN     (1539) TATCACATCTCTACATTCTTGCAGCAGCAGGACATTATGACAGCTAAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCGTATGTGAC
APOSTART_5_GEN     (1446) TATCACATATCTACATTCTTGCAGCAGCAGGACACTATGACAGCTAAAAACCGCAAGGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGGGTATGTAAT
APOSTART_6_GEN     (1437) TATCACATATCTACATTCTTGCAGCAGCAGGACACTATGACAGCTAAAAACCGCAAGGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGGGTATGTAAT
APOSTART_7_GEN     (1577) TATCACGTCTCTACATTCTTGCAGCAGCAGGACACTATGACTGCTAAAAACCGCAAGGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCGTATGTGAC
APOSTART_8_GEN     (1580) TATCACATCTCTACATTCTTGCAGCAGCAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCGTATGTGAC
APOSTART_10_GEN    (1562) TATCACATCTCTACATTCTTGCAGCAGCAGGACACTATGACAGCTGAAAACCGCAAAGCCTTTGCTTCAATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTCATTCTCAGATCATGACAGCGCGTATGTGAC
APOSTART_12_GEN    (1570) TATCACGTCTCTACATTCTTGCAGCAGCAGGACACTATGACAGCTAAAAACCGCAAAGCCTTTGCTTCGATGGACTTCGATGCGGAACTTGGAGGGCAGTTCTTATTCTCAGATCATGACAGCGCGTATGTGAC
Section 14
                    (1743) 1743      1750      1760      1770      1780      1790      1800      1810      1820      1830      1840      1850      1860      1876
APOSTART 1          (406) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART 2          (406) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGCAGGACAACTATAGGAAACGGT------
APOSTART_3          (406) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_4          (409) ------------------------------------------------------------------------------------------GCCGAGGACGAAGAGGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_5          (406) ------------------------------------------------------------------------------------------GCTGAAGACGAAGAGGAACGGCCGACTTTGACACGTAGGACAACTATAGGAAACGGT------
APOSTART_6          (406) ------------------------------------------------------------------------------------------GCTGAAGACGAAGAGGAACGGCCGACTTTGACACGTAGGACAACTATAGGAAACGGT------
APOSTART 7          (409) ------------------------------------------------------------------------------------------GCTGAAGACGAAGAAGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_8          (409) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_9          (406) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_10         (409) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_11         (403) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_12         (409) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAGGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_14         (406) ------------------------------------------------------------------------------------------GCCGAGGACGAAGAGGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_15         (403) ------------------------------------------------------------------------------------------GCCGAGGACGAAGAGGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_13         (406) ------------------------------------------------------------------------------------------GCTGAGGACGAAGAGGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGT------
APOSTART_1_GEN     (1696) ATTCTACTCTTAGACTATCTTGTACCTAAGTGTTTCGCTGAATTAAGTACAAATTTAATTACCAATGCAGGGCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGTAAGAAG
APOSTART_2_GEN     (1673) ATTCTACTCTTAGACTATCTTGTACGTAAGTGTTTCGCTGAATTAAGTACAAATTTAATTACCAATGTAGGGCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGCAGGACAACTATAGGAAACGGTAAGAAG
APOSTART_5_GEN     (1580) ATT--------AGACTATCTTATACCTAAACCTTTCGCTAAATTAATTAGAAATTGAATTGCATATGTAGGGCTGAAGACGAAGAGGAACGGCCGACTTTGACACGTAGGACAACTATAGGAAACGGTAAGAAG
APOSTART_6_GEN     (1571) AT--T------AGACTATCTTATACCTAAACCTTTTGCTAAATTAACTAGAAATTGAATTGCATATGTAGGGCTGAAGACGAAGAGGAACGGCCGACTTTGACACGTAGGACAACTATAGGAAACGGTAAGAAG
APOSTART_7_GEN     (1711) ATTCTACTCTTAGACTATCTTATACCTAAACGTTTCACTGAATTAACTAGAAATTTAATTACCAATGCAGGGCTGAAGACGAAGAAGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGTAAGAAG
APOSTART_8_GEN     (1714) ATTCTACTCTTAGACTATCTTATACCTAAACCTTTCGCTAAATTAATTAGAAATTGAATTGCATATGTAGGGCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGTAAGAAG
APOSTART_10_GEN    (1696) ATTCTACTCTTAGACTATCTTGTACCTAAGTGTTTCGCTGAATTAAGTACAAATTTAATTCCA-ATGCAGGGCTGAGGACGAAGAAGAGCGGCCCACTTTGACCCGTAGGACAACTATAGGAAACGGTAAGAAG
APOSTART_12_GEN    (1704) ATTCTACTCTTAGACTATCTTATACCTAAACGTTTCACTGAATTAACTAGAAATTTAATTACCAATGCAGTGCTGAGGACGAAGAGGAGCGACCCACTTTGACCCGTAGGACAACTATAGGAAACGGTAAGAAG
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Section 15

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                    (1877) 1877                1890      1900      1910      1920      1930      1940      1950      1960      1970      1980      1990      2000      2010
APOSTART 1          (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART 2          (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACAAAT
APOSTART_3          (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_4          (466) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_5          (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCCATACATGATTGGACCTAT
APOSTART_6          (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCCATACATGATTGGACCAAT
APOSTART 7          (466) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_8          (466) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_9          (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_10         (466) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_11         (460) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_12         (466) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_14         (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_15         (460) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_13         (463) ------------------------------------------------------------------------------------------------------------CCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_1_GEN     (1830) TTGCACTGACTACCTGAGTGAAGAAGAGTACTGATTTGCAAGTTGGATTTTCATCTT-----TGCATTCTACATTAAATTCACCGTGTCTTTCTGGTGCTAGGTCCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_2_GEN     (1807) TTGCACTGACTACCTGAGTGAAGAATAGTACTGATTTGCAAGTTGGATTTTCATCTT-----TGCATTCTACATAAAATTCACCGTGTCTTTCTGGTGCTAGGTCCCCCCGAATCGATACATGACTGGACAAAT
APOSTART_5_GEN     (1706) TTACACCGACTACCCGAGTGAAGCAGAGGATTGATTTGCATGTTGGATTTTGCATTTTTGCATGCTACATAAATAAAACTCAGCATGTCTTTATGGTGCTAGGTCCCCCCGAATCCATACATGATTGGACCTAT
APOSTART_6_GEN     (1697) TTACACCGACTACCCGAGTGAAGCAGAGGATTGATTTGCATGTTGGATTTTGCATATTTGCATGCTACATAAATAAAACTCAGCGTGTCTTTATGGTGCTAGGTCCCCCCGAATCCATACATGATTGGACCAAT
APOSTART_7_GEN     (1845) TTGCACTGACTACCCGAGTGAAGAAGAGTACTGATTTGCAAGTTGGATTTTCATCTT-----TGCATTCTAAATAAAATTCACCATGTCTTTCTGGTGCTAGGTCCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_8_GEN     (1848) TTACACCGACTACCCGAGTGAAGCAGAGGATTGATTTGCATGTTGGATTTTGCATTTTTGCATGCTACATAAATAAAACTCAGCATGTCTTTATGGTGCTAGGTCCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_10_GEN    (1829) TTGCACTGACTACCTGAGTGAAGAAGAGTACTGATTTGCAAAGTTGGATTTTCATCTTTGCATTCTCATTAAATTCACCGTGTC-----TTTC-TGGGCTAGGTCCCCCCGAATCGATACATGACTGGACCAAT
APOSTART_12_GEN    (1838) TTGCACTGACTACCCGAGTGAAGAAGAGTACTGATTTGCAAGTTGGATTTTCATCTT-----TGCATTCTAAATAAAATTCACCATGTCTTTCTGGTGCTAGGTCCCCCCGAATCGATACATGACTGGACCAAT
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Section 16

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                    (2011) 2011      2020      2030      2040      2050      2060      2070      2080      2090      2100      2110      2120      2130      2144
APOSTART 1          (493) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART 2          (493) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAATCGTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_3          (493) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_4          (496) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_5          (493) GAGCCTGATATTGGTTTGTCGAGTCAGAGTGACCCTTCACAATCTTTCTCGAAAAAGAATTGGCGGCTACTTAGATGCCAAAATGG------------------------------------------
APOSTART_6          (493) GAGCCTGATATTGGTTTGTCGAGTCAGAGTGACCCTTCACAATCTTTCTCGAAAAAGAATTGGCGGCTACTTAGATGCCAAAATGG------------------------------------------
APOSTART 7          (496) GAACCTGATATCGGTTTGACAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_8          (496) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_9          (493) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_10         (496) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATG-------------------------------------------
APOSTART_11         (490) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_12         (496) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_14         (493) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_15         (490) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGGCAAGCCAAAGTTCCTTATCCTTATGTCATCTACCCT-----TGCTTG-
APOSTART_13         (493) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGG------------------------------------------
APOSTART_1_GEN     (1959) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGGCAAGCCAAAGTTCCTTCTCCTTATGTCATCTACCCT-----TGCATGT
APOSTART_2_GEN     (1936) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAATCGTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGGCAAGCCAAAGTTCCTTCTCCTTATGTCATCTACCCT-----TGCATGT
APOSTART_5_GEN     (1840) GAGCCTGATATTGGTTTGTCGAGTCAGAGTGACCCTTCACAATCTTTCTCGAAAAAGAATTGGCGGCTACTTAGATGCCAAAATGGCAAGCCCAACTTCCCTTACCTTATGTCATCCACCCTAACCTTGTATAT
APOSTART_6_GEN     (1831) GAGCCTGATATTGGTTTGTCGAGTCAGAGTGACCCTTCACAATCTTTCTCGAAAAAGAATTGGCGGCTACTTAGATGCCAAAATGGCAAGCCCAACTTCCCTTACCTTATGTCATCCACCCTAACCTTGTATAT
APOSTART_7_GEN     (1974) GAACCTGATATCGGTTTGACAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGGCAAGCCAAAGTTC-TTCTCCTTATGTCATCTACCCT-----TGCATGT
APOSTART_8_GEN     (1982) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGGCAAGCCAAAGTTCCTTCTCCTTATGTCATCTACCCT-----TGCATGT
APOSTART_10_GEN    (1957) GAACCTGATATCGGTTTGTCAAATCAAAGTGATCCTGCACAATCATTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGGCAAGCCAAAGTTCCTTCTCCTTATGTCATCTACCCT-----TGCATGT
APOSTART_12_GEN    (1967) GAGCCTGATATCGGTTTGTCAAATCAGAGTGATCCTGCACAGTCTTTCTCAAAGAAGAATTGGCGGCTACTTCGATGCCAAAATGGCAAGCCAAAGTTCCTTCTCCTTATGTCATCTACCCT-----TGCATGT
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Section 17

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                    (2145) 2145  2150      2160      2170      2180      2190      2200      2210      2220      2230      2240      2250      2260      2278
APOSTART 1          (579) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART 2          (579) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART_3          (579) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART_4          (582) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTCG------------------------------------------------------------
APOSTART_5          (579) ------------------------------ACTACGCATCTTTGAAGAACTTCTGGAAGTCGATTATCTTG------------------------------------------------------------
APOSTART_6          (579) ------------------------------ACTACGCATCTTTGAAGAACTTCTGGAAGTCGATTATCTTG------------------------------------------------------------
APOSTART 7          (582) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART_8          (582) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART_9          (579) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART_10         (581) ------------------------------------------------AACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART_11         (576) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTG------------------------------------------------------------
APOSTART_12         (582) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTCG------------------------------------------------------------
APOSTART_14         (579) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTCG------------------------------------------------------------
APOSTART_15         (618) GGAGTTGATTATCTCTTT-GTCATTAACAGGACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTCG------------------------------------------------------------
APOSTART_13         (579) ------------------------------ACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTCG------------------------------------------------------------
APOSTART_1_GEN     (2088) GGAGTTGCTTATCTCTTT-GTCATTAACAGGACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTGTATGTCCCGGCAGCAACCTTAACTGCTGGAGAGTTCCTGGAGAGTACCTGAAATTCTGAATC
APOSTART_2_GEN     (2065) GGAGTTGCTTATCTCTTT-GTCATTAACAGGACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTGTATGTCCCAGCAGCAACCTTAACTGCTGGAGAGTTCCTGGACAGTACCTGAAATTCTGAATC
APOSTART_5_GEN     (1974) GGAGTTGCTTACCTTTTTTGCCATTGGCAGGACTACGCATCTTTGAAGAACTTCTGGAAGTCGATTATCTTGTATGTCCCGG-----ATCTTAACTGTT-----------GACAAGTGCCTGAAATTCAGAAAC
APOSTART_6_GEN     (1965) GTAGTTGCTTACCTTTTTTGCCATTGGCAGGACTACGCATCTTTGAAGAACTTCTGGAAGTCGATTATCTTGTATGTCCCGG-----ATCTTAACTGTT-----------GACAAGTGCCTGAAATTCAGAAAC
APOSTART_7_GEN     (2102) GGAGTTGCTTATATCTTT-GTCATTAACAGGACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTGTATGTCCCGGCAGCAACCTTAACTGCTCGAGAGTTCCTGGACAGTACCTGAAATTCTGAATC
APOSTART_8_GEN     (2111) GGAGTTGCTTATATCTTT-GTCATTAACAGGACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTGTATGTCCCGGCAGCAACCTTAACTGCTCGAGAGTTCCTGGACAGTACCTGAAATTCTGAATC
APOSTART_10_GEN    (2086) GGAGTTGCTTATCTCTTT-GTCATTAACAGGACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTTGTATGTCCCGGCAGCAACCTTAACTGCTGGAGAGTTCCTGGAGAGTACCTGAAATTCTGAATC
APOSTART_12_GEN    (2096) GGAGTTGCTTATCTCTTT-GTCATTAACAGGACTTCGCATCTTCGAAGAACTTCTGGAAGTCGATTACCTCGTATGTCCCGGCAGCAACCTTAACTGCTGGAGAGTTCCTGGACAATACCTGAAATTCTGAATC
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Section 18

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                    (2279) 2279      2290      2300      2310      2320      2330      2340      2350      2360      2370      2380      2390      2400      2412
APOSTART 1          (620) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART 2          (620) ------------------------------------CACGAAACTGTAGCCGAGCTATGAGGGCTGTCGGCGTAATGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
APOSTART_3          (620) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_4          (623) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
APOSTART_5          (620) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTGGTGGAGGCCACATGTGAAGCCATTTTTGGGCTGGTGATGAGCATGGATGTGACTAGATACC
APOSTART_6          (620) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTAGGCGTGGTGGAGGCCACATGTGAAGCCATTTTTGGGCTGGTGATGAGCATGGATGTAACTAGATACG
APOSTART 7          (623) ------------------------------------CACGAAGCTGTAGCAGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGTGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACTAGATACG
APOSTART_8          (623) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_9          (620) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_10         (605) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_11         (617) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_12         (623) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
APOSTART_14         (620) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
APOSTART_15         (689) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
APOSTART_13         (620) ------------------------------------CACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
APOSTART_1_GEN     (2221) TGACTATGAATCCTACTTTTCATGCCCTGTGTAGGCACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_2_GEN     (2198) TGACTACCAATCGTACTTTTCATGCCCTGTGTAGGCACGAAACTGTAGCCGAGCTATGAGGGCTGTCGGCGTAATGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
APOSTART_5_GEN     (2092) TGACTACGAATCGTACTTTTCTTGCCCCGTGTAGGCACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTGGTGGAGGCCACATGTGAAGCCATTTTTGGGCTGGTGATGAGCATGGATGTGACTAGATACC
APOSTART_6_GEN     (2083) TGACTACGAATCGTACTTTTCCTGCCCTGTGTAGGCACGAAGCTGTAGCCGAGCTATGAGGGCTGTAGGCGTGGTGGAGGCCACATGTGAAGCCATTTTTGGGCTGGTGATGAGCATGGATGTAACTAGATACG
APOSTART_7_GEN     (2235) TGACTACGAATCGTACTTTTCATGCCTTGTGTAGGCACGAAGCTGTAGCAGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGTGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACTAGATACG
APOSTART_8_GEN     (2244) TGACTACGAATCGTACTTTTCATGCCTTGTGTAGGCACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_10_GEN    (2219) TGACTATGAATCCTACTTTTCATGCCCTGTGTAGGCACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACATGACGAGATACG
APOSTART_12_GEN    (2229) TGACTACGAATCGTACTTTTCATGCCCTGTGTAGGCACGAAGCTGTAGCCGAGCTATGAGGGCTGTCGGCGTAGTGGAAGCCACATGCGAAGCCATTTTTGGGCTGGTGATGAGCATGGACGTGACGAGATACG
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Section 19

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                    (2413) 2413      2420      2430      2440      2450      2460      2470      2480      2490      2500      2510      2520      2530      2546
APOSTART 1          (719) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART 2          (719) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_3          (719) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_4          (722) AAT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_5          (719) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_6          (719) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART 7          (722) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGAAGTTT
APOSTART_8          (722) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_9          (719) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_10         (704) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_11         (716) AGT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_12         (722) AAT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_14         (719) AAT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_15         (788) AAT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_13         (719) AAT-------------------------------------------------------------------------------------------------------GGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_1_GEN     (2355) AGTAAGCGT----GCTCTTTAACTCTCTGCTGTT----------------------------ACAACTACCGATGCTGATGTCGATATTTATTCTCCAACATAGGTGGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_2_GEN     (2332) AGTAAGCGTCTGTCCTCTTTAACTCTCTGCTGTT----------------------------ACAACTACCGATGCTGATGTCGATATTTATTCTCCAACATAGGTGGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_5_GEN     (2226) AGTAAGCGTCCGGCCTCTTTA-CTCTCCGATGTTCCAACT--------------------------CCGATGCTGATGCCGATATTTT---CCAATCATAGGTGGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_6_GEN     (2217) AGTAAGCGTCTGGCCTCTTTAACTCTCCGATGTTC------C---------------------AACTACCAATGCTGATGCCAACATTT--TCACAATCATAGGTGGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_7_GEN     (2369) AGTAAGTGTCTGGCCTCTTTAACTCTCTGCTGTTCCAACTACCGATGCTGCCCTTTAAAAAAAAAACTACCGATGCTGATGTCCATCTTTATTCTCCACTATAGGTGGGACTGTAGCTTTCGCTATGGAAGTTT
APOSTART_8_GEN     (2378) AGTAAGTGTCTGGCCTCTTTAACTCTCTGCTGTTCCAACTACCGATGCTGCCCTTTAAAAAAAAAACTACCGATGCTGATGTCCATCTTTATTCTCCACTATAGGTGGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_10_GEN    (2353) AGTAAGCGT--G-----------------------------C-TCTTTAACTCTCTGCTGTTACAACTACCGATGCTGATGTCGATATTTATTCTCCAACATAGGTGGGACTGTAGCTTTCGCTATGGCAGTTT
APOSTART_12_GEN    (2363) AATAAGCCTCTGTCCTCTTTAACTATCTG------------CTGTT----------------ACAACTACCGATGCTGATGTCGATATTTATTCTCCAACATAGGTGGGACTGTAGCTTTCGCTATGGCAGTTT
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Section 20

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                    (2547) 2547      2560      2570      2580      2590      2600      2610      2620      2630      2640      2650      2660      2670      2680
APOSTART 1          (750) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART 2          (750) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_3          (750) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_4          (753) AGTCGAAGAGGTTGATGGCCACACCGTGATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_5          (750) GGTCGAAGAAGTCGATGGCCACACCGCGATACTCTATCACAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_6          (750) GGTCGAAGAAGTCGATGGCCACACCGCGATACTCTATCACAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART 7          (753) AGTCGAAGAGGTTGATGGGCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_8          (753) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_9          (750) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_10         (735) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_11         (747) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_12         (753) AGTCGAAGAGGTTGATGGCCACACCGCGATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_14         (750) AGTCGAAGAGGTTGATGGCCACACCGTGATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_15         (819) AGTCGAAGAGGTTGATGGCCACACCGTGATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_13         (750) AGTCGAAGAGGTTGATGGCCACACCGCGATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGT-------------------------------------------------------------
APOSTART_1_GEN     (2457) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGTAA-CCACATTT---CATGTCAACAACTGTGTACCGTCTGTAAT---TTTTTGGATTGTCTGTCAGA
APOSTART_2_GEN     (2438) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGTAA-CCACATTT---CATGTCAACAACTGTGTACCGTCTGTAAT---TTTTTGGATTGTCTGTCAGA
APOSTART_5_GEN     (2327) GGTCGAAGAAGTCGATGGCCACACCGCGATACTCTATCACAAGTTGCAGCTGCACTGGTGTCCAATGTAAACCATATTCTCATATTTCAACAACCGTTTAGCGTCTGTAATACGTTTTTGGATTGTCTGTCAGA
APOSTART_6_GEN     (2321) GGTCGAAGAAGTCGATGGCCACACCGCGATACTCTATCACAAGTTGCAGCTGCACTGGTGTCCAATGTAAACCATATTCTCATATTTCAACAACCGTTTAGCGTCTGTAATACGTTTTTGGATTGTCTGTCAGA
APOSTART_7_GEN     (2503) AGTCGAAGAGGTTGATGGGCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGTAA-CCACATTTTCACATGTCAACAACTGTGTACCGTCTATAAA---TTTTTGGATTGTCTGTCAGA
APOSTART_8_GEN     (2512) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGTAA-CCACATTTTCACATGTCAACAACTGTGTACCGTCTATAAA---TTTTTGGATTGTCTGTCAGA
APOSTART_10_GEN    (2455) AGTCGAAGAGGTTGATGGCCACACCGCCATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGTAA-CCACATTT---CATGTCAACAACTGTGTACCGTCTGTAAT---TTTTTGGATTGTCTGTCAGA
APOSTART_12_GEN    (2469) AGTCGAAGAGGTTGATGGCCACACCGCGATACTCTATCATAAGTTGCAGCTGCACTGGTGTCCAATGTAA-CCACATTT---CATGTCAACAACTGTGTACCGTCTGTAAT---TTTTTGGATTGTCTGTCAGA
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Section 21

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                    (2681) 2681      2690      2700      2710      2720      2730      2740      2750      2760      2770      2780      2790      2800      2814
APOSTART 1          (818) ----------------------------------------TAGTGTGGCCTAAAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART 2          (818) ----------------------------------------TAGTGTGGCCTAAAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_3          (818) ----------------------------------------TAGTGTGGCCTAAAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_4          (821) ----------------------------------------TAGTGTGGCCTAGAGATCTCTGTTATGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_5          (818) ----------------------------------------TAGTCTGGCCTAGGGATCTCTGTTACGTTCGTTACTGGCGGCGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_6          (818) ----------------------------------------TAGTCTGGCCTAGGGATCTCTGTTACGTTCGTTACTGGCGGCGCAATGATGATGGAAGCTATG--------------------------------
APOSTART 7          (821) ----------------------------------------TAGTGTGGCCTAGAGATCTCTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_8          (821) ----------------------------------------TAGTGTGGCCTAGAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_9          (818) ----------------------------------------TAGTGTGGCCTAGAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_10         (803) ----------------------------------------TAGTGTGGCCTAGAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_11         (815) ----------------------------------------TAGTGTGGCCTAGAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_12         (821) ----------------------------------------TAGTGTGGCCTAGAGATCTCTGTTATGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_14         (818) ----------------------------------------TAGTGTGGCCTAGAGATCTCTGTTATGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_15         (887) ----------------------------------------TAGTGTGGCCTAGAGATCTCTGTTATGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_13         (818) ----------------------------------------TAGTGTGGCCTAGAGATCTCTGTTATGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATG--------------------------------
APOSTART_1_GEN     (2584) CTGAAATTTACATTCTTCCATCCTACATGAATATTCAGGTTAGTGTGGCCTAAAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATGGTAAACCCTTGAATTTTTCATGTTCCTGTCC
APOSTART_2_GEN     (2565) CTGAAATTTACATTCTTCCATCCTACATGAATATTCAGGTTAGTGTGGCCTAAAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATGGTAAACCCTTGAATTTTTCATGTTCCTGTCC
APOSTART_5_GEN     (2461) TTGAACCTTACATTCTTCCATCTTGCAT-AACATACAGGTTAGTCTGGCCTAGGGATCTCTGTTACGTTCGTTACTGGCGGCGCAATGATGATGGAAGCTATGGTAAATTCTTGAATTTTCCATGCTCATTTTC
APOSTART_6_GEN     (2455) TTGAACCTTACATTCTTCCATCTTGCAT-AACATACAGGTTAGTCTGGCCTAGGGATCTCTGTTACGTTCGTTACTGGCGGCGCAATGATGATGGAAGCTATGGTAAATTATTGAATTTTCCATGCTCATTTTC
APOSTART_7_GEN     (2633) CTGAAATTTACATTCTTCCATCCTACATGAATATTCAGGTTAGTGTGGCCTAGAGATCTCTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATGGTAAACCCTTGAATTTTCCATGTTCCTGTAC
APOSTART_8_GEN     (2642) CTGAAATTTACATTCTTCCATCCTACATGAATATTCAGGTTAGTGTGGCCTAGAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATGGTAAACCCTTGAATTTTCCATGTTCCTGTAC
APOSTART_10_GEN    (2582) CTGAAATTTACATTCTTCCATCCTACATGAATATTCAGGTTAGTGTGGCCTAGAGATCTGTGTTACGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATGGTAAACCCTTGAATTTTTCATGTTCCTGTCC
APOSTART_12_GEN    (2596) CTGAAATTTACATTCTTCCATCCTACATGAATATTCAGGTTAGTGTGGCCTAGAGATCTCTGTTATGTTCGTTACTGGCGACGCAATGATGATGGAAGCTATGGTAAACTCTTGAATTTTTCATGTTCCTGTCC
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Section 22

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                    (2815) 2815 2820      2830      2840      2850      2860      2870      2880      2890      2900      2910      2920      2930      2948
APOSTART 1          (881) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART 2          (881) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_3          (881) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_4          (884) ------------------------------------------------------------TTGTGCTCTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATATGTAAGGGCTTTTATTGAA
APOSTART_5          (881) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAGCATCCAAACTGTGGCCACCAACGGGGATATGTAAGGGCTTTTATTGAA
APOSTART_6          (881) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAGCATCCAAACTGTTGCCGCCAACGGGGATATGTAAGGGCTTTTATTGAA
APOSTART 7          (884) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_8          (884) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_9          (881) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_10         (866) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_11         (878) ------------------------------------------------------------TTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_12         (884) ------------------------------------------------------------TTGTGCTCTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATATGTAAGGGCTTTTATTGAA
APOSTART_14         (881) ------------------------------------------------------------TTGTGCTCTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATATGTAAGGGCTTTTATTGAA
APOSTART_15         (950) ------------------------------------------------------------TTGTGCTCTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATATGTAAGGGCTTTTATTGAA
APOSTART_13         (881) ------------------------------------------------------------TTGTGCTCTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATATGTAAGGGCTTTTATTGAA
APOSTART_1_GEN     (2718) CGTCACCTTCGCTGTCTGTATCATCTTTTGATCGACAATGTATATTTGTTCTTACACATACAGTTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_2_GEN     (2699) CGTCACCTTCGCTGTCTGTACCATCTTTTGATCGACAATGTATATTTGTTCTTACACATACAGTTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_5_GEN     (2594) ---AACTTTTTCTGTTTGTACCATCTTCTGATTGGCATTGTATGTTT-TTCTTACACATATAGTTGTGCTGTTTCGATCTATCGAGCATCCAAACTGTGGCCACCAACGGGGATATGTAAGGGCTTTTATTGAA
APOSTART_6_GEN     (2588) ---AACTTTTTCTGTTTGTACCATCTTCTGATTGGCATTATATGTTTAT-CTTACACATATAGTTGTGCTGTTTCGATCTATCGAGCATCCAAACTGTTGCCGCCAACGGGGATATGTAAGGGCTTTTATTGAA
APOSTART_7_GEN     (2767) CGTCACCTTCGCTGTCTGTACCATCTTTTAATCGACAATGTATATTTGTTCTTACACATACAGTTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_8_GEN     (2776) CGTCACCTTCGCTGTCTGTACCATCTTTTAATCGACAATGTATATTTGTTCTTACACATACAGTTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_10_GEN    (2716) CGTCACCTTCGCTGTCTGTACCATCTTTTGATCGACAATGTATATTTGTTCTTACACATACAGTTGTGCTGTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATACGTAAGGGCTTTTATTGAA
APOSTART_12_GEN    (2730) CGTCACCTTCGCTGTCTGTATCATCTTTTGATCGACAATGTATATTTGTTCTTACACATACAGTTGTGCTCTTTCGATCTATCGAACATCCAAACTGTGGCCGCCAACGAGGATATGTAAGGGCTTTTATTGAA
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Section 23

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                    (2949) 2949      2960      2970      2980      2990      3000      3010      3020      3030      3040      3050      3060      3070      3082
APOSTART 1          (952) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART 2          (952) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_3          (952) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_4          (955) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_5          (952) AGG-------------------------------------------------------------------------------------------------------------GGAGGTTTCAAGA
APOSTART_6          (952) AGT-------------------------------------------------------------------------------------------------------------GGAGGTTTCAAGA
APOSTART 7          (955) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_8          (955) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_9          (952) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_10         (937) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_11         (949) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_12         (955) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_14         (952) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_15        (1021) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_13         (952) AGT-------------------------------------------------------------------------------------------------------------GGAGGGTTCAAGA
APOSTART_1_GEN     (2852) AGTAAGTCTTCTTCTGACCATCTGATATTCTTCATATTTACCCGGGAGGATGAGACACTTAAAATAAACAAAATTAACTTGCGTTACTTT-CTTTCTCTGAAC-TTCCTACTAGTTCAGGTGGAGGGTTCAAGA
APOSTART_2_GEN     (2833) AGTAAGTCTTCTTCTGACCATCTGATATTCGTCATATTTACCGGGGAGGATGAGACACTTAAAATAAACAAAATTAACTTGAGCTACTTT-CTTTCTCTGAAC-TTCCTACTAGTTCAGGTGGAGGGTTCAAGA
APOSTART_5_GEN     (2724) AGTAAGTCTCCTTCTCACCATTTGTGACCGTTCAT-TTTACCCGAGAGGATGATACATTTCAAATAAACAAAATTAACTTGGATTCGTTTTCCTTTTTTGAAAATTCCTACTAGTTCAGG-GGAGGTTTCAAGA
APOSTART_6_GEN     (2718) AGTAAGTCTCCTTCTCACCATTTGTGACCCTTCAT-TTTACCCGAGTGGATGATACATTTCAAATAAACAAAATTAACTTGGATTCGTTTTCCTTTTCTGAAA-TTCCTACTAGTTCAGGTGGAGGTTTCAAGA
APOSTART_7_GEN     (2901) AGTAAGTCTTCTTCTGACCATCTGATATTCTTCATATTTACCCGAGGGGATGAGACACTTAAAATAAACAAAATTAACTTGAGTTACTTT-CTTTCTCTGAAC-TTCCTACTAGTTCAGGTGGAGGGTTCAAGA
APOSTART_8_GEN     (2910) AGTAAGTCTTCTTCTGACCATCTGATATTCTTCATATTTACCCGAGGGGATGAGACACTTAAAATAAACAAAATTAACTTGAGTTACTTT-CTTTCTCTGAAC-TTCCTACTAGTTCAGGTGGAGGGTTCAAGA
APOSTART_10_GEN    (2850) AGTAAGTCTTCTTCTGACCATCTGATATTCTTCATATTTACCCGGGAGGATGAGACACTTAAAATAAACAAAATTAACTTGCGTTACTTT-CTTTCTCTGAAC-TTCCTACTAGTTCAGGTGGAGGGTTCAAGA
APOSTART_12_GEN    (2864) AGTAAGTCTTCTTCTGACCATCTGATATTCTTCATATTTACCCGGGAGGATGAGACACTTAAAATAAACAAAATTAACTTGAGCTACTTT-CTTTCTCTGAAC-TTCCTACTAGTTCAGGTGGAGGGTTCAAGA
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Section 24

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                    (3083) 3083      3090      3100      3110      3120      3130      3140      3150      3160      3170      3180      3190      3200      3216
APOSTART 1          (968) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART 2          (968) TTTCTCCTCTCAAATGTCGCAACGGACGACCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCGGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_3          (968) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_4          (971) TTTCTCCTCTCAAATGTCGCAACGGACGACCACATACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_5          (968) TTTCTCCTCTCAAGTGTCGCAACGGCAGGCCGCGTACTCAAGTTCAACACCTTATGCAGATTGATCTGAGAGGATGGTTTCTGAACTACTCTCCTTCCTTTCAGTATCATTCTTTGCTGCAGATACAAAACTGT
APOSTART_6          (968) TTTCTCCTCTCAAGTGTCGCAACGGACGGCCGCGTACTCAAGTTCAACACCTTATGCAGATTGATCTGAGAGGATGGTTTCTGAACTACTCTCCTTCCTTTCAGTATCATTCTTTGCTGCAGATACAAAACTGT
APOSTART 7          (971) TTTCTCCTCTCAAATGTCGCAACGGACGACCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_8          (971) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_9          (968) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_10         (953) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_11         (965) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_12         (971) TTTCTCCTCTCAAATGTCGCAACGGACGACCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_14         (968) TTTCTCCTCTCAAATGTCGCAACGGACGACCACATACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_15        (1037) TTTCTCCTCTCAAATGTCGCAACGGACGACCACATACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_13         (968) TTTCTCCTCTCAAATGTCGCAACGGACGACCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_1_GEN     (2984) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_2_GEN     (2965) TTTCTCCTCTCAAATGTCGCAACGGACGACCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCGGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_5_GEN     (2856) TTTCTCCTCTCAAGTGTCGCAACGGCAGGCCGCGTACTCAAGTTCAACACCTTATGCAGATTGATCTGAGAGGATGGTTTCTGAACTACTCTCCTTCCTTTCAGTATCATTCTTTGCTGCAGATACAAAACTGT
APOSTART_6_GEN     (2850) TTTCTCCTCTCAAGTGTCGCAACGGACGGCCGCGTACTCAAGTTCAACACCTTATGCAGATTGATCTGAGAGGATGGTTTCTGAACTACTCTCCTTCCTTTCAGTATCATTCTTTGCTGCAGATACAAAACTGT
APOSTART_7_GEN     (3033) TTTCTCCTCTCAAATGTCGCAACGGACGACCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_8_GEN     (3042) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_10_GEN    (2982) TTTCTCCTCTCAAATGTCGCAACGGACGGCCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
APOSTART_12_GEN    (2996) TTTCTCCTCTCAAATGTCGCAACGGACGACCACGTACTCAAGTTCAACACCTTATGCAGATTGACCTGAGAGGATGGTTCCTGAACTACTCCCCTTCCTTTCAGTATCACTCTTTGCTGCAGATACAGAACTGT
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Section 25

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                    (3217) 3217      3230      3240      3250      3260      3270      3280      3290      3300      3310      3320      3330      3340      3350
                APOSTART 1 (1102) GTTGCTGG--------------------------------------------------------------------------------ACTGCGCGAATACTTTTCACAAACAGATGAATG
                APOSTART 2 (1102) GTTGCTGG--------------------------------------------------------------------------------ACTGCGCGAATACTTTTCACAAACAGATGAATG
                APOSTART_3 (1102) GTTGCTGG--------------------------------------------------------------------------------ACTGCGCGAATACTTTTCACAAACAGATGAATG
                APOSTART_4 (1105) GTTGCTGGG-------------------------------------------------------------------------------CTGCGCGAATACTTTTCACAAACAGATGAATG
                APOSTART_5 (1102) GTTGCTGGG-------------------------------------------------------------------------------CTGCGCGAATACTTTTCACAAACAGATGAATG
                APOSTART_6 (1102) GTTGCTGGG-------------------------------------------------------------------------------CTGCGCGAATACTTTTCACAAACAGATGAATG
                APOSTART 7 (1105) GTTGCTGG--------------------------------------------------------------------------------ACTGCGCGAATACTTTTCACAAACAGATGAATG
                APOSTART_8 (1105) GTTGCTG---------------------------------------------------------------------------------------------------------ATGAATG
                APOSTART_9 (1102) GTTGCTGG--------------------------------------------------------------------------------ACTGCGCGAATACTTTTCACAAACAGATGAATG
               APOSTART_10 (1087) GTTGCTGG--------------------------------------------------------------------------------ACTGCGCGAATACTTTTCACAAACAGATGAATG
               APOSTART_11 (1099) GTTGCTGG--------------------------------------------------------------------------------ACTGCGCGAATACTTTTCACAAACAGATGAATG
               APOSTART_12 (1105) GTTGCTGGG-------------------------------------------------------------------------------CTGCGCGAATACTTTTCACAAACAGATGAATG
               APOSTART_14 (1102) GTTGCTG---------------------------------------------------------------------------------------------------------ATGAATG
               APOSTART_15 (1171) GTTGCTGGG-------------------------------------------------------------------------------CTGCGCGAATACTTTTCACAAACAGATGAATG
               APOSTART_13 (1102) GTTGCTG---------------------------------------------------------------------------------------------------------ATGAATG
         APOSTART_1_GEN (3118) GTTGCTGGTACTGCATTTGGTTTTTCCTTATTAACAACC--TGAACACAGTTCACCAATTCATACTGGTACTTGTGGATTTAACTGACACTTACTGCCAGGACTGCGCGAATACTTTTCACAAACAGATGAATG
         APOSTART_2_GEN (3099) GTTGCTGGTACTGCATTTGGTTTTTCCTTATTAACAACCTCTGAACACAGTTCACCAATTCATATTGGTACTTGTGGATTTAACTGACACTTACTGCCAGGACTGCGCGAATACTTTTCACAAACAGATGAATG
         APOSTART_5_GEN (2990) GTTGCTGGTACTGCATGTG-TTTTCCCTTATTGGAAACC--TGAACATAATTCACCAATTCATTCTGGTACTTGTGGATTTAACTGACACTTACTGCCAGGGCTGCGCGAATACTTTTCACAAACAGATGAATG
         APOSTART_6_GEN (2984) GTTGCTGGTACTGCATGTGCTTTTCCCTTATTGGCAACC--TGAACATAATTCACCAATTCATTCTGGTACTTGTGGATTTAACTGACACTTACTGCCAGGGCTGCGCGAATACTTTTCACAAACAGATGAATG
         APOSTART_7_GEN (3167) GTTGCTGGTACTGCATTTGGTTTTCCCTTATTAACAACC--TGAACACAGTTCACCAATTCATACTGGTACTTGTGTTTTTAACTGACACTTACTGCCAGGACTGCGCGAATACTTTTCACAAACAGATGAATG
         APOSTART_8_GEN (3176) GTTGCTGGTACTGCATTTGGTTTTCCCTTATTAACAACC--TGAACACAGTTCACCAATTCATACTGGTACTTGTGTTTTTAACTGACACTTACTGCCAGGACTGCGCGAATACTTTTCACAAACAGATGAATG
        APOSTART_10_GEN (3116) GTTGCTGGTACTGCATTTGGTTTTTCCTTATTAACAACC--TGAACACAGTTCACCAATTCATACTGGTACTTGTGGATTTAACTGACACTTACTGCCAGGACTGCGCGAATACTTTTCACAAACAGATGAATG
        APOSTART_12_GEN (3130) GTTGCTGGTACTGCATTTGGTTTTTCCTTATTAACAACCACTGAACACAGTTCACCAATTCATATTGGTACTTGTGGATTTAACTGACACTTACTGCCAGGGCTGCGCGAATACTTTTCACAAACAGATGAATG
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Section 26

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                    (3351) 3351      3360      3370      3380      3390      3400      3410      3420      3430      3440      3450      3460      3470      3484
                APOSTART 1 (1143) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
                APOSTART 2 (1143) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
                APOSTART_3 (1143) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
                APOSTART_4 (1146) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGTCTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
                APOSTART_5 (1143) CCATATAACTCCAAGAATTCCTGTGATGGAGAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGACTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
                APOSTART_6 (1143) CCATATAACTCCAAGAATTCCTGTGATGGAGAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGACTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
                APOSTART 7 (1146) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCGATGCTGAAAAGCCAGAAGCTGCATGAAATGGAGCCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
                APOSTART_8 (1119) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCAATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
                APOSTART_9 (1143) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
               APOSTART_10 (1128) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
               APOSTART_11 (1140) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
               APOSTART_12 (1146) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGTCTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
               APOSTART_14 (1116) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGTCTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
               APOSTART_15 (1212) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGTCTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
               APOSTART_13 (1116) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGTCTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
         APOSTART_1_GEN (3250) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
         APOSTART_2_GEN (3233) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
         APOSTART_5_GEN (3121) CCATATAACTCCAAGAATTCCTGTGATGGAGAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGACTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
         APOSTART_6_GEN (3116) CCATATAACTCCAAGAATTCCTGTGATGGAGAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGACTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
         APOSTART_7_GEN (3299) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCGATGCTGAAAAGCCAGAAGCTGCATGAAATGGAGCCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
         APOSTART_8_GEN (3308) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCAATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
        APOSTART_10_GEN (3248) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCATCGATGCCGAAAAGCCAGAAGCTACATGAAATGGAGTCCAAGACTAAACCAGCACATGGAGGACAAGCAGATAATAAAAGCATGTCGA
        APOSTART_12_GEN (3264) CCATATAACTCCAAGGATTCCTGTGATGGAAAACATGGTTGATCCGTCAATGCCGAAAAACCAGAAGCTTCACGAAATGGAATCCAAGTCTAAGCCAGCACATGGAGGACAAACAGATAATAAGAGCATGTCGA
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                                                                                                                                                                                                                            
Section 27
(3485) 3485 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3618
APOSTART 1 (1277) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART 2 (1277) TAATCGATGAAGAGTCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART_3 (1277) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART_4 (1280) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGG----------
APOSTART_5 (1277) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGG----------
APOSTART_6 (1277) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGG----------
APOSTART 7 (1280) TAATCGATGAAGAGTCGGACGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART_8 (1253) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART_9 (1277) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART_10 (1262) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART_11 (1274) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGG----------
APOSTART_12 (1280) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGG----------
APOSTART_14 (1250) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGG----------
APOSTART_15 (1346) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGG----------
APOSTART_13 (1250) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGG----------
APOSTART_1_GEN (3384) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGGTTACATATCCTGAGA--ACACACTATGAAGAACCAGATTTCATGATCAGTTTT----------ACAT
APOSTART_2_GEN (3367) TAATCGATGAAGAGTCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGGTTACATATCCTGAGA--ACACACTGTGACGAACCAGATTTCATGATCAGTTTT----------ACAT
APOSTART_5_GEN (3255) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGGTTACATATCCTGAGACCACACACTATGAACACTCAGTTTTCCTTATCAATTTACGTCATACATTTTTTACACGA
APOSTART_6_GEN (3250) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGGTTACATATCCTGAGACCACACACTATGAGCACCCAGTTTTCCTTATCAATTTACGTCGTACAGTTTTTACACGA
APOSTART_7_GEN (3433) TAATCGA-GAAGAGTCGGACGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGGTTACATATCCTGAGA--ACACACTATGAAGAACCAGATTTCATGATCAGTTTT----------ACAT
APOSTART_8_GEN (3442) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGGTTACATATCCTGAGA--ACACACTATGAAGAACCAGATTTCATGATCAGTTTT----------ACAT
APOSTART_10_GEN (3382) TAATCGATGAAGAATCGGATGAGGATGATGACTATCAAGTTCCGGAAGCTAACATAGAGGTTACATATCCTGAGA--ACACACTATGAAGAACCAGATTTCATGATCAGTTTT----------ACAT
APOSTART_12_GEN (3398) TAATCGATGAAGAGTCAGATGAGGATGAGGACTATCAAGTTGCTGAAGCTAACATAGAGGTTACATATCCTGAGA--ACACACT--GACGAACCAGATTTCATGATCAGTTTT----------ACAT
Section 28
(3619) 3619 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 3752
APOSTART 1 (1337) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART 2 (1337) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_3 (1337) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_4 (1340) ----------AAGACTCCACCAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_5 (1337) ----------AAGACTCCAGTAAAGCTGACAACGATGCTAAGCGTACAG----------
APOSTART_6 (1337) ----------AAGACTCCAATAAAGCTGACAACGATGCTAAGCGTACAG----------
APOSTART 7 (1340) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTGCAG----------
APOSTART_8 (1313) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_9 (1337) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_10 (1322) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_11 (1334) ----------AAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_12 (1340) ----------AAGACTCCACCAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_14 (1310) ----------AAGACTCCACCAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_15 (1406) ----------AAGACTCCACCAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_13 (1310) ----------AAGACTCCACCAAGTCTGACAATGATGCTAAGCGTACAG----------
APOSTART_1_GEN (3499) GTTTTTTCACTTTCTATTAAACCATTTAAAAAATAAATGTACAGGAAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAGGTTTGATCCTTTCCGACAAATTACGTAAGCTGTCAAGTTCTTAGGATATA
APOSTART_2_GEN (3482) GTTTTTTCACTTTCTATTAAACCATTTTAAAAATAAATGTACAGGAAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAGGTTTGATCCTTTCCGAAAAATTACGTCAGCTGTCAAGTTCTTAGGATAGA
APOSTART_5_GEN (3389) TTTCTCACATCATA-ATAAACCTTTTATCAAAATTAATGTGCAGGAAGACTCCAGTAAAGCTGACAACGATGCTAAGCGTACAGGTTTGATTCCATGACACAAATAATGCCTGCTGTCAAGTGATGAGGATAGA
APOSTART_6_GEN (3384) TTTCTTACATCATAAGTAAAACTTTTATCAAAATTAATGTGCAGGAAGACTCCAATAAAGCTGACAACGATGCTAAGCGTACAGGTTTTATTCCCTCACACAAATCATGCCTGATGTCAAGTGATGAGGATAGA
APOSTART_7_GEN (3547) GTTTTTTCACTTTATATTAAATCTTTTTTAAA-TAAATGTACAGGAAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAGGTTTGATCCTTTCCGACAAATCACATCAGCTGTCAAGTTCTTAGGATAGA
APOSTART_8_GEN (3557) GTTTTTTCACTTTATATTAAATCTTTTTTAAA-TAAATGTACAGGAAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAGGTTTGATCCTTTCCGACAAATCACATCAGCTGTCAAGTTCTTAGGATAGA
APOSTART_10_GEN (3497) GTTTTTTCACTTTCTATTAAACCATTTAAAAAATAAATGTACAGGAAGACTCCAACAAGTCTGACAATGATGCTAAGCGTACAGGTTTGATCCTTTCCGACAAATTACGTAAGCTGTCAAGTTCTTAGGATATA
APOSTART_12_GEN (3511) GTTTTTTCACTTTCTATTAAACCATTTAAAAAATAAATGTACAGGAAGACTCCACCAAGTCTGACAATGATGCTAAGCGTACAGGTTTGATCCTTTCCGACAAATTACGTCAGCTGTCAAGTTCTTAGGATAGA
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Section 29

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                    (3753) 3753      3760      3770      3780      3790      3800      3810      3820      3830      3840      3850      3860      3870      3886
                APOSTART 1 (1376) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
                APOSTART 2 (1376) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
                APOSTART_3 (1376) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
                APOSTART_4 (1379) ----------------------------------------AAGAACCTCCGGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
                APOSTART_5 (1376) ----------------------------------------AAGAGCCTCCAGAAAAGATTGATTTGTCTTGCTTTTCGGGCATCCTTCATCGTGACCCGGATGAGAAAAGCCGCAACTGTTGGACAGTACCCG
                APOSTART_6 (1376) ----------------------------------------AAGAGCCTCCAGAAAAGATTGATTTGTCTTGCTTTTCGGGCATCCTTCATCATGACCCGGATGAGAAAAGCCGCAACTGTTGGACAGTACCGG
                APOSTART 7 (1379) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACTGATGAGAAAAGCCGTAACTGTTGGACAGTACCTG
                APOSTART_8 (1352) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
                APOSTART_9 (1376) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
               APOSTART_10 (1361) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
               APOSTART_11 (1373) ----------------------------------------AAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
               APOSTART_12 (1379) ----------------------------------------AAGAACCTCCGGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGATACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
               APOSTART_14 (1349) ----------------------------------------AAGAACCTCCGGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
               APOSTART_15 (1445) ----------------------------------------AAGAACCTCCGGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
               APOSTART_13 (1349) ----------------------------------------AAGAACCTCCGGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
           APOSTART_1_GEN (3633) TTTTATTTTTTCTTTAACGGCCGATATCTTTGCCGTGGCAGAAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
           APOSTART_2_GEN (3616) TTTTATTTTTTCTTTAACGGCCGATATCTTTGC-GTGGCAGAAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
           APOSTART_5_GEN (3522) TGTTATTTTTTCTCTCTAACGCAATATATTATTTTTGGCAGAAGAGCCTCCAGAAAAGATTGATTTGTCTTGCTTTTCGGGCATCCTTCATCGTGACCCGGATGAGAAAAGCCGCAACTGTTGGACAGTACCCG
           APOSTART_6_GEN (3518) TGTTATTTTTTCTCTCTAACGCAATATATTATTTTTGGCAGAAGAGCCTCCAGAAAAGATTGATTTGTCTTGCTTTTCGGGCATCCTTCATCATGACCCGGATGAGAAAAGCCGCAACTGTTGGACAGTACCGG
           APOSTART_7_GEN (3680) TTTTATTTTTTCTTTAACGGCCGATATCTTTGCCATGGAAGAAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACTGATGAGAAAAGCCGTAACTGTTGGACAGTACCTG
           APOSTART_8_GEN (3690) TTTTATTTTTTCTTTAACGGCCGATATCTTTGCCATGGAAGAAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
          APOSTART_10_GEN (3631) TTTTATTTTTTCTTTAACGGCCGATATCTTTGCCGTGGCAGAAGAACCTCCAGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGACACGGATGAGAAAAGCCGTAACTATTGGACAGTACCCG
          APOSTART_12_GEN (3645) TTTTATTTTTTCTTTAACGGCCGATATCTTTGC-ATGGCAGAAGAACCTCCGGAAAAAATTGATCTGTCTTGCTTTTCGGGCATCCTTCATCGTGATACGGATGAGAAAAGCCGTAACTGTTGGACAGTACCCG
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Section 30

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                    (3887) 3887      3900      3910      3920      3930      3940      3950      3960      3970      3980      3990      4000      4010      4020
                APOSTART 1 (1469) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
                APOSTART 2 (1469) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
                APOSTART_3 (1469) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
                APOSTART_4 (1472) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGACAAATCAAAG----------------------------------------------------------------------
                APOSTART_5 (1469) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
                APOSTART_6 (1469) ATAGCACGCTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
                APOSTART 7 (1472) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
                APOSTART_8 (1445) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
                APOSTART_9 (1469) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
               APOSTART_10 (1454) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
               APOSTART_11 (1466) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAG----------------------------------------------------------------------
               APOSTART_12 (1472) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGACAAATCAAAG----------------------------------------------------------------------
               APOSTART_14 (1442) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGACAAATCAAAG----------------------------------------------------------------------
               APOSTART_15 (1538) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGACAAATCAAAG----------------------------------------------------------------------
               APOSTART_13 (1442) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGACAAATCAAAG----------------------------------------------------------------------
           APOSTART_1_GEN (3767) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAGGTCTAAATCTTCCAATTTATGCTTAATTTATTATGAAGAATATCTGATGAAGAAATTCAGGACACTCACATT-AAAGTTGC
           APOSTART_2_GEN (3749) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAGGTCTAAATCTTCCAATTTATGCTTAATTTATTATGAAGAATATCTGATGAGTAAATTCAGGACACTCACATT-AAACTTGC
           APOSTART_5_GEN (3656) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAGGTCTAAATCTTCCAATTTATGCTTAGTCTACAATGAAGCATATTAGATAAATAAATTCAGGACACTGACATTTTAAGTTAT
           APOSTART_6_GEN (3652) ATAGCACGCTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAGGTCTAAATCTTCCGGTTTATGCTTAGTCTATAATGAAGCATATTAGAT-AAGAACTTCAGGACACTGACATTTTAAGTTAC
           APOSTART_7_GEN (3814) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAGGTCTAAATCTTCCAATTTATGCTTAATTTATTATGAAGAATATATGATGAAGAAATTCAGGACACTCACATT-AAAGTTGT
           APOSTART_8_GEN (3824) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAGGTCTAAATCTTCCAATTTATGCTTAATTTATTATGAAGAATATATGATGAAGAAATTCAGGACACTCACATT-AAAGTTGT
          APOSTART_10_GEN (3765) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGATAAATCAAAGGTCTAAATCTTCCAATTTATGCTTAATTTATTATGAAGAATATCTGATGAAGAAATTCAGGACACTCACAT--AAAGTTGC
          APOSTART_12_GEN (3778) ATAGCACACTCTTTAAAGTCCGTAGCAAGAACTTCCCTACTGACAAATCAAAGGTCTAAATCTTCCAATTTATGCTTAATTTATTATGAAGAATATCTGATGAATAAATTCAGGACACTCACATT-AAACTTGC
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Section 33

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                (4289) 4289       4300      4310      4320      4330      4340      4350      4360      4370      4380      4390      4400      4410      4422
     APOSTART 1 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART 2 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_3 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_4 (1629) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_5 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_6 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART 7 (1629) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_8 (1602) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_9 (1626) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_10 (1611) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_11 (1623) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_12 (1629) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_14 (1599) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_15 (1695) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_13 (1599) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN (4166) GTCGAGCAAGACCAGAACATAACAGTCTTTTTTA-ATGAAAAGTGGCGCAGCCGCATCGTGCTTCACTATAGTACAAATTATCGTGTTAATAGCTCTATTTTTTTTTATTGAATGCTTAAGAGAGGTTCACGAT
APOSTART_2_GEN (4148) GTCGAGCAAGACCAGAACATAACAGTCTTTTTTT-ATGAAAAGTGGCACAGCCGCATCGTGCTTCGCTATAGTACAAATTATCGTGTTGATAGCTCTAATTTTTTG-ATTGATTGCTTAAGAGAGATTCATGAT
APOSTART_5_GEN (4003) ------------------------------------------------------------------------------------------GATG-------------------------------------
APOSTART_6_GEN (3950) ------------------------------------------------------------------TTGCATTTTCTTTGTAAATATCATTTCAATATATCTAATT-------------------------------
APOSTART_7_GEN (4210) GTCGAGCAAGACCAGAACATAACAGTCTTTTTTTTATGAAAAGTGGCACAGCTGCATCGTGCTTCGCTATAGTACAAATTATCGTGTTGATAGCTCTAATTTTTTG-ATTGAATGCTTAAGAGAGGTTCACGAT
APOSTART_8_GEN (4222) GTCGAGCAAGACCAGAACATAACAGTCTTTTTTTTATGAAAAGTGGCACAGCTGCATCGTGCTTCGCTATAGTACAAATTATCGTGTTGATAGCTCTAATTTTTTG-ATTGAATGCTTAAGAGAGGTTCACGAT
APOSTART_10_GEN (4162) GTCGAGCAAGACCAGAACATAACAGTCTTTTTTAATGAAAAGTGGCGCAGCCGCATCGTGCTTCACTATAGTACAAATTATCGTGTTAATAGCTCTATTTTTTTTT-ATTGAATGCTTAAGAGAGGTTCACGAT
APOSTART_12_GEN (4177) GTCGAGCAAGACCAGAACATAATAGTCTTTTTTT-ATGAAAAGTGGCACAGCCGCATCGTGCTTCGCTATTGTACAAATTATCGTGTTGATAGCTCTAATTTTTTG-ATTGAATGCTTAAGAGAGGTTCACGAT
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Section 34

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                (4423) 4423      4430      4440      4450      4460      4470      4480      4490      4500      4510      4520      4530      4540      4556
     APOSTART 1 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART 2 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_3 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_4 (1629) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_5 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_6 (1626) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART 7 (1629) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_8 (1602) ------------------------------------------------------------------------------------------------------------------------------------
     APOSTART_9 (1626) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_10 (1611) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_11 (1623) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_12 (1629) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_14 (1599) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_15 (1695) ------------------------------------------------------------------------------------------------------------------------------------
    APOSTART_13 (1599) ------------------------------------------------------------------------------------------------------------------------------------
APOSTART_1_GEN (4299) ATTATAACTTTGAAATCATTTAGTACACTGAGAACAAGTATTACAGAAATTTAGCCAAATGTTTCAGATACCAATCAGAAACTCATGCTTGTTTCTGTCTGAAGTGTAAGACAAGAAAACTGAGTCATTGTTCA
APOSTART_2_GEN (4280) ATTATAACTTTCAAATCATTTAGTACACTGAGAACAAGTATTACAGAAATTTAGCCAAATGTTTCAGATACCAATCAGAAACTCATGCTTG----------AAGTGTAAGACAAGAAAACTGAGTCATTGTTCA
APOSTART_5_GEN (4007) ------------------------------------------------T-------------------------------------------TCTATCTGAAGAATAAGATAATAAAACTGAGCCCTTGTTCA
APOSTART_6_GEN (3990) ------------------------------------------------------------------------AACATTCGGAATCTC-----------TGTTTCTATCTGAAGAGAATAAAGCTGAGCCCTTGTTCA
APOSTART_7_GEN (4343) ATTATAACTTTGAAATCATTTAGTACACTGAGAACAAGTATTACAGAAATTTAGCCAAATGTTTCAGATACCAATCAGAAACTCATGCTTGTTTTTGTATGAAGTGTAAGACAAGAAAACTGAGTCATTGTTCA
APOSTART_8_GEN (4355) ATTATAACTTTGAAATCATTTAGTACACTGAGAACAAGTATTACAGAAATTTAGCCAAATGTTTCAGATACCAATCAGAAACTCATGCTTGTTTTTGTATGAAGTGTAAGACAAGAAAACTGAGTCATTGTTCA
APOSTART_10_GEN (4295) ATTATAACTTTGAAATCATTTAGTACACTGAGAACAAGTATTACAGAAATTTAGCCAAATGTTTCAGATACCAATCAGAAACTCATGCTTGTTTCTGTCTGAAGTGTAAGACAAGAAAACTGAGTCATTGTTCA
APOSTART_12_GEN (4309) ATTATAACTTTGAAATCATTTAGTACACTGAGAACAAGTATTACAGAAATTTAGCCAAATGTTTCAGACACCAATCAGAAACTCATGCTTGTTTCTGTCTGAAGTGTAAGACAAGAAAACTGAGTCATTGTTCA
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Section 35

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                    (4557) 4557       4570      4580      4590      4600      4610      4620      4630      4640      4650      4660      4670      4680      4690
          APOSTART 1 (1626) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART 2 (1626) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART_3 (1626) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART_4 (1629) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART_5 (1626) ------------------------------------TGCCGCTGAGAAAGGAATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART_6 (1626) ------------------------------------TGCCGCTGAGAAAGGAATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART 7 (1629) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART_8 (1602) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
          APOSTART_9 (1626) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
         APOSTART_10 (1611) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
         APOSTART_11 (1623) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
         APOSTART_12 (1629) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
         APOSTART_14 (1599) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
         APOSTART_15 (1695) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
         APOSTART_13 (1599) ------------------------------------TGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAG------------------------------------------------------------
  APOSTART_1_GEN (4433) TAATTTCATTGCTCATATTACCTGCTTCGTAGGTTGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAGGTGAGCTATTCCGCTATAAATTTCATTGTACTGTTATTCCTGCATTTGAAGACTGGT
  APOSTART_2_GEN (4404) TAATTTCATTGCTCA-----CCTGCTTTGTAGGTTGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAGGTGAGCTATTCCGCTATAAATTTCATTGTACTGTTATTCCTGCGTTTGAAGACTGGT
  APOSTART_5_GEN (4049) TACTT-CATTGCTCATGTTACTGTCTTTGTAGGTTGCCGCTGAGAAAGGAATGCACACATTTGTTGCCAACATACAGGCGAGTTATTCTGCGATAGATATCTTTGTAATATTATTCATGCGTTTGAAGGCTAGT
  APOSTART_6_GEN (4044) TAATTTCATTGCTCATGTTACTGGCTTTGTAGGTTGCCGCTGAGAAAGGAATGCACACATTTGTTGCCAACATACAGGCGAGTTATTCTGTGATAGATTTGTTTGAAATATTATTAATGTGTTTGTAGAATAGT
  APOSTART_7_GEN (4477) AAATTTAATTGCTCATGTTACCTGCTTTGTAGGTTGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAGGTGAGCTATTCCGCTATAAATTTCATTGTACTGTTATTCATGCGTTTGAAGACTGGT
  APOSTART_8_GEN (4489) AAATTTAATTGCTCATGTTACCTGCTTTGTAGGTTGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAGGTGAGCTATTCCGCTATAAATTTCATTGTACTGTTATTCATGCGTTTGAAGACTGGT
 APOSTART_10_GEN (4429) TAATTTCATTGCTCATATTACCTGCTTCGTAGGTTGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAGGTGAGCTATTCCGCTATAAATTTCATTGTACTGTTATTCCTGCATTTGAAGACTGGT
 APOSTART_12_GEN (4443) TAATTTCATTGCTCATATTACCTGCTTTGTAGGTTGCTGCTGAGAAAGGGATGCACACATTTGTTGCCAACATACAGGTGAGCTATTCCGCTATCAATTTCATTGTACTGTTATTCCTGCGTTTGAAAACTGGT
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Section 36

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                    (4691) 4691      4700      4710      4720      4730      4740      4750      4760      4770      4780      4790      4800      4810      4824
          APOSTART 1 (1669) ------------------------------------------------------------------------------------------------------ATTCCGGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
          APOSTART 2 (1669) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
          APOSTART_3 (1669) ------------------------------------------------------------------------------------------------------ATTCCGGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
          APOSTART_4 (1672) ------------------------------------------------------------------------------------------------------ATTCCCGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
          APOSTART_5 (1669) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTACCATGAAAAAGG
          APOSTART_6 (1669) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTACCATGAAAAAGGG
          APOSTART 7 (1672) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
          APOSTART_8 (1645) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
          APOSTART_9 (1669) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
         APOSTART_10 (1654) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
         APOSTART_11 (1666) ------------------------------------------------------------------------------------------------------ATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
         APOSTART_12 (1672) ------------------------------------------------------------------------------------------------------ATTCCCGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
         APOSTART_14 (1642) ------------------------------------------------------------------------------------------------------ATTCCCGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
         APOSTART_15 (1738) ------------------------------------------------------------------------------------------------------ATTCCCGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
         APOSTART_13 (1642) ------------------------------------------------------------------------------------------------------ATTCCCGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
  APOSTART_1_GEN (4567) ATATATCCAACTTTTTTTTTCGAAAGGAAAGA-TTTTTTTGGGAAGTTAATTAACTTAATATCCTATTGCAGATTCCGGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
  APOSTART_2_GEN (4533) ATATATCAAACTTTTTTTTTCGAAAGGAAAGA-TTTTTTGGTGAAGTTAATTAACTTAATATCCTATTGCAGATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
  APOSTART_5_GEN (4182) GTT----GAACTTTTTTCCAAAAGGAAACA----TGTTTGGTGAAGTTAAT---------ATCCCATTGCAGATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTACCATGAAAAAGG
  APOSTART_6_GEN (4178) GTT----GAACTTTTTTCCAAAATGAAACA----TGTTTGGTGAAGTTAAT---------ATCCCATTGCAGATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTACCATGAAAAAGGG
  APOSTART_7_GEN (4611) ATATATCAAACTTTTTTTTGAAAGGAGAGA---TTTTTTGGTGAAGTTAATTAACTTAATATCCTATTGCAGATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
  APOSTART_8_GEN (4623) ATATATCAAACTTTTTTTTGAAAGGAGAGA---TTTTTTGKKGAAGTTAATTAACTTAATATCCTATTGCAGATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
 APOSTART_10_GEN (4563) ATATATCCAACTTTTTTTTTCGAAAGGAAAGATTTTTTTGGTGAAGTTAATTAACTTAATATCCTATTGCAGATTCCTGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTGCATGAAAAAGG
 APOSTART_12_GEN (4577) ATATATCAAACTTTTTTTTGAAAGGAGAGA---TTTTTTGGTGAAGTTAATTAACTTAATATCCTATTGCAGATTCCCGGATCAACTCATTACAGCTTGGTGATGTATTTCGTCACGAGTTCCATGAAAAAGG
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Section 37

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                    (4825) 4825  4830      4840      4850      4860      4870      4880      4890      4900      4910      4920      4930      4940      4958
         APOSTART 1 (1731) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGG-------------------------------------------
         APOSTART 2 (1731) ATCATTGCTGCAACGTTTCTTTGATGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCGGCCGTTCCAAAGG-------------------------------------------
         APOSTART_3 (1731) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGG-------------------------------------------
         APOSTART_4 (1734) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCGGCCGTTCCAAAGG-------------------------------------------
         APOSTART_5 (1731) ATCATTGCTGCAACGTTTCTTTGATGGAGATGATGAATTCCGCAATAGTAGACTGAAGCTTATACCGGCGGTTCCAAAGG-------------------------------------------
         APOSTART_6 (1731) ATCATTGCTGCAACGTTTCTTCGACGGAGATGATGAATTCCGCAATAGTAGACTCAAGCTTATACCGGCGGTTCCAAAGG-------------------------------------------
         APOSTART 7 (1734) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCAGCCGTTCCAAAGG-------------------------------------------
         APOSTART_8 (1707) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGG-------------------------------------------
         APOSTART_9 (1731) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGG-------------------------------------------
        APOSTART_10 (1716) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGG-------------------------------------------
        APOSTART_11 (1728) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGG-------------------------------------------
        APOSTART_12 (1734) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCGGCCGTTCCAAAGG-------------------------------------------
        APOSTART_14 (1704) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCGGCCGTTCCAAAGG-------------------------------------------
        APOSTART_15 (1800) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCGGCCGTTCCAAAGG-------------------------------------------
        APOSTART_13 (1704) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCGGCCGTTCCAAAGG-------------------------------------------
  APOSTART_1_GEN (4700) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGGTCTGTTTTTTTTCTTCATAAACTCATGTGTGGGATGCAAAAAAAAAAAAAATCT
  APOSTART_2_GEN (4666) ATCATTGCTGCAACGTTTCTTTGATGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCGGCCGTTCCAAAGGTCTGTTTTTTTCTTCATAAACTCATGTGGGATGCAAAAAAAAAAAAATTACTCT
  APOSTART_5_GEN (4299) ATCATTGCTGCAACGTTTCTTTGATGGAGATGATGAATTCCGCAATAGTAGACTGAAGCTTATACCGGCGGTTCCAAAGGTCTGCTTTTTTCAATAAAAA---CATGTACGCTGCAACTATTATGTTGTACTCT
  APOSTART_6_GEN (4295) ATCATTGCTGCAACGTTTCTTCGACGGAGATGATGAATTCCGCAATAGTAGACTCAAGCTTATACCGGCGGTTCCAAAGGTATGTTTTTTCCCATAAAAACATGTAGGGT----------------------GATG
  APOSTART_7_GEN (4742) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCAGCCGTTCCAAAGGTCTTTTTTTTTTCTTCATAAAACTCATGTG--GGATGCAAAAAAAATTTACTTT
  APOSTART_8_GEN (4754) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGGTCTTTTTTTTTTCTTCATAAAACTCATGTG--GGATGCAAAAAAAATTTACTTT
 APOSTART_10_GEN (4697) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTAAAGCTTATACCAGCCGTTCCAAAGGTCTGTTTTTTTTCTTCATAAACTCATGTGT-GGGATGCAAAAAAAAAAAAATCT
 APOSTART_12_GEN (4708) ATCATTGCTGCAACGTTTCTTTGACGGAGATGATGAATTCCGCAATAGCAGACTGAAGCTTATACCGGCCGTTCCAAAGGTCTTTTTTTTTTCTTCATAAAACTCATGTG--GGATGCAAAAAAAATTTACTTT
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Section 38

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                    (4959) 4959      4970      4980      4990      5000      5010      5020      5030      5040      5050      5060      5070      5080      5092
         APOSTART 1 (1811) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
         APOSTART 2 (1811) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
         APOSTART_3 (1811) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
         APOSTART_4 (1814) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTTGATTGCAGCTACGTGCGTGGTCCGGGTTAC
         APOSTART_5 (1811) ----------------------------------------------GATCTTGGATAGTGCGGCAGAGCGTTGGGAGTACCCCTTGTTTATTGGGAAAGGCCGTCGATTGCAGCTACGTGCGTGGTCCAGGGTAC
         APOSTART_6 (1811) ----------------------------------------------GATCTTGGATAGTGCGGCAGAGCGTCGGGAGTACCCCTTGTTTATTGGGAAAGGCCGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
         APOSTART 7 (1814) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTCGATTGCAGCTACGTGCGTGGTCCGGGTTAC
         APOSTART_8 (1787) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCAGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
         APOSTART_9 (1811) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCAGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
        APOSTART_10 (1796) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCAGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
        APOSTART_11 (1808) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCAGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
        APOSTART_12 (1814) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTTGATTGCAGCTACGTGCGTGGTCCGGGTTAC
        APOSTART_14 (1784) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTTGATTGCAGCTACGTGCGTGGTCCGGGTTAC
        APOSTART_15 (1880) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTTGATTGCAGCTACGTGCGTGGTCCGGGTTAC
        APOSTART_13 (1784) ----------------------------------------------GCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTTGATTGCAGCTACGTGCGTGGTCCGGGTTAC
  APOSTART_1_GEN (4834) TCATGTCAACTCTGAAACAACGAACAACAAAAATAAATCTTCAGGGCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
  APOSTART_2_GEN (4800) TCATGTCAACTTTGACACAACGAACAACAAAAATAAATCTTCAGGGCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
  APOSTART_5_GEN (4430) TCAGCTTCACTCTGACTCCACAAACAA---ATAAAAATTGTCAGGGATCTTGGATAGTGCGGCAGAGCGTTGGGAGTACCCCTTGTTTATTGGGAAAGGCCGTCGATTGCAGCTACGTGCGTGGTCCAGGGTAC
  APOSTART_6_GEN (4409) TACTCTTCACTCTGACTCCACAGACAA-ACAAAAAAATCGTCAGGGATCTTGGATAGTGCGGCAGAGCGTCGGGAGTACCCCTTGTTTATTGGGAAAGGCCGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
  APOSTART_7_GEN (4874) TCATGTCAACTTTGACACAACGAACAACAAAAATAAATCTTCAGGGCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTCGATTGCAGCTACGTGCGTGGTCCGGGTTAC
  APOSTART_8_GEN (4886) TCATGTCAACTTTGACACAACGAACAACAAAAATAAATCTTCAGGGCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCAGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
 APOSTART_10_GEN (4830) TCATGTCAACTCTGAAACAACGAACAACAAAAATAAATCTTCAGGGCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCAGTCGATTGCAGCTACGTGCGTGGTCCAGGTTAC
 APOSTART_12_GEN (4840) TCATGTCAACTTTGACACAACGAACAACAAAAATAAATCTTCAGGGCTCATGGATAGTGCGGCAGAGCGTTGGAAGTACCCCTTGTTTATTGGGAAAGGCGGTTGATTGCAGCTACGTGCGTGGTCCGGGTTAC
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(5093) 5093 5100 5110 5120 5130 5140 5150 5160 5170 5180 5190 5200 5210 5226
APOSTART 1 (1900) TTGGAAGT----------
APOSTART 2 (1900) TTAGAAGT----------
APOSTART_3 (1900) TTGGAAGT----------
APOSTART_4 (1903) TTGGAAGT----------
APOSTART_5 (1900) TTGGAAGT----------
APOSTART_6 (1900) TTGGAAGT----------
APOSTART 7 (1903) TTGGAAGT----------
APOSTART_8 (1876) TTGGAAGT----------
APOSTART_9 (1900) TTGGAAGT----------
APOSTART_10 (1885) TTGGAAGT----------
APOSTART_11 (1897) TTGGAAGT----------
APOSTART_12 (1903) TTGGAAGT----------
APOSTART_14 (1873) TTGGAAGT----------
APOSTART_15 (1969) TTGGAAGT----------
APOSTART_13 (1873) TTGGAAGT----------
APOSTART_1_GEN (4968) TTGGAAGTAAGTCATGCA-TCCGTTTTCCATCTACTGGCGA-------AATATCA----TAGAGTACTAGC---AAAATTTTATCATCGTTATTATTTCCATTTTTAACATGGAATGCATCCTGATCGGTGTTT
APOSTART_2_GEN (4934) TTAGAAGTAAGTCATGCA-TCCGTTTTCCATCTACTGGCGA-------AATATCA----TAGAGTACTAGC---AACATTTTATCATCGTTATTATTTCCATTTTTAACATGGAATGCATCCTGATCGGTGTTT
APOSTART_5_GEN (4561) TTGGAAGTAAGTCATATACTTTTTTTTCCATCTCATGTTCACAACATAAAAATGGTCAGTAGAGTTATAGTCCAGACACTGAGTACTCATTATTATTTCCATTTTAAACAT-GAATGCACTTTGATTGATATTT
APOSTART_6_GEN (4542) TTGGAAGTAAGTCATTTA-GTTTTTTTCCATCTTGTATGCA-------------CA-----------A-------------TATAAAAATGGTGAGTAGAATTATGGAAAATGAATGCATTTTGAGTGGTATTT
APOSTART_7_GEN (5008) TTGGAAGTAAGTCGTGCA-TCCGTTTTCCATCTACTGGCGA-------AATATCATGCATAGAGTACTAGC---GAAATTTTATGGTCGTTGTTATTTCCATTTTTAACATGGAATGCATCCTGATCGGTGTTT
APOSTART_8_GEN (5020) TTGGAAGTAAGTCGTGCA-TCCGTTTTCCATCTACTGGCGA-------AATATCATGCATAGAGTACTAGC---GAAATTTTATGGTCGTTGTTATTTCCATTTTTAACATGGAATGCATCCTGATCGGTGTTT
APOSTART_10_GEN (4964) TTGGAAGTAAGTCATGCA-TCCGTTTTCCATCTACTGGCGA-------AATATCA----TAGAGTACTAGC---AAAATTTTATCATCGTTATTATTTCCATTTTTAACATGGAATGCATCCCGATCGGTGTTT
APOSTART_12_GEN (4974) TTGGAAGTAAGTCGTGCA-TCCGTTTTCCATCTACTGGCGA-------AATATCATGCATAGAGTACTAGC---GAAATTTTATGGTCGTTGTTATTTCCATTTTTAACATGGAATGCATCCTGATCGGTGTTT
Section 39

(5227) 5227 5240 5250 5260 5270 5280 5290 5300 5310 5320 5330 5340 5350 5360
APOSTART 1 (1908) ---------GGATGTTGACATCGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART 2 (1908) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_3 (1908) ---------GGATGTTGACATCGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_4 (1911) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_5 (1908) ---------GGATGTTGACATAGGTTCTTCGGCGGTGGCCAACGGCGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_6 (1908) ---------GGATGTTGACATCGGTTCCTCGGCAGTGGCCAACGGGGTTTTGGGCCTGGTGTTTGGTGTTGTTGCAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART 7 (1911) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_8 (1884) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_9 (1908) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_10 (1893) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_11 (1905) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_12 (1911) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_14 (1881) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_15 (1977) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_13 (1881) ---------GGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGG----------
APOSTART_1_GEN (5087) TCTTCAGGTGGATGTTGACATCGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGAGACCCCAGTGGCTAATGCA
APOSTART_2_GEN (5053) TCTTCAGGTGGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGAGACCCCAGTGGCTAATGCA
APOSTART_5_GEN (4694) TCTGCAGGTGGATGTTGACATAGGTTCTTCGGCGGTGGCCAACGGCGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGGGACCCCAATTGCTATTTGA
APOSTART_6_GEN (4638) TCTGCAGGTGGATGTTGACATCGGTTCCTCGGCAGTGGCCAACGGGGTTTTGGGCCTGGTGTTTGGTGTTGTTGCAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGGGACCCCAATTGCTATTGCA
APOSTART_7_GEN (5131) TTTGCAGGTGGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGAGACCCTAGTTGCTAATGCA
APOSTART_8_GEN (5143) TTTGCAGGTGGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGAGACCCTAGTTGCTAATGCA
APOSTART_10_GEN (5083) TCTTCAGGTGGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGAGACCCCAGTGGCTAATGCA
APOSTART_12_GEN (5097) TTTGCAGGTGGATGTTGACATTGGTTCTTCGGCGGTGGCCAATGGGGTTTTGGGCCTGGTGTTTGGTGTTGTCACAACATTGGTAGTTGACATGGCCTTCCTAATACAGGTAAGAGACCCTAGTTGCTAATGCA
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Section 41

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                    (5361) 5361      5370      5380      5390      5400      5410      5420      5430      5440      5450      5460      5470      5480      5494
                APOSTART 1 (2009) ----------------------------------------------------------------------CTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
                APOSTART 2 (2009) ----------------------------------------------------------------------CAAACACGTATGATGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCATGT
                APOSTART_3 (2009) ----------------------------------------------------------------------CTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
                APOSTART_4 (2012) ----------------------------------------------------------------------CGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCCCACGT
                APOSTART_5 (2009) ----------------------------------------------------------------------CGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGGGCGGCTCGGCTGGCCCATGT
                APOSTART_6 (2009) ----------------------------------------------------------------------CGAACACGTATGATGAGCTCCCAGAACAGGTGATCGGTGCGGCCCGATTGGCCCACGT
                APOSTART 7 (2012) ----------------------------------------------------------------------CGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCTCACGT
                APOSTART_8 (1985) ----------------------------------------------------------------------CTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
                APOSTART_9 (2009) ----------------------------------------------------------------------CTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
               APOSTART_10 (1994) ----------------------------------------------------------------------CTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
               APOSTART_11 (2006) ----------------------------------------------------------------------CTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
               APOSTART_12 (2012) ----------------------------------------------------------------------CGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCCCACGT
               APOSTART_14 (1982) ----------------------------------------------------------------------CGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCCCACGT
               APOSTART_15 (2078) ----------------------------------------------------------------------CGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCCCACGT
               APOSTART_13 (1982) ----------------------------------------------------------------------CGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCCCACGT
          APOSTART_1_GEN (5221) AAATCCTGAGTTGACTGAAGAAGAGAAAATCTAGTACGGTCTTATCATTGTACGGTTCATTTTATGAACTTGCAGGCTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
          APOSTART_2_GEN (5187) AAATCCTGAGTTGACTGAAGAAGAGAAAATCTAGTACGGTCTTATCATTGTACGGTTCATCTTATGAACTTGCAGGCAAACACGTATGATGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCATGT
          APOSTART_5_GEN (4828) GAACCATGAGTAGACTGAAGAAGAGAAAATCTAGTATGGTCTTATCATTGTACGTTTCATATAATGAATTTGCAGGCGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGGGCGGCTCGGCTGGCCCATGT
          APOSTART_6_GEN (4772) AAC-CATGAGTAGACTGAAGAAGATAAA-TCTAGTATGGTCTTATCATTGAACGCTTCATATTCTGAATTTGCAGGCGAACACGTATGATGAGCTCCCAGAACAGGTGATCGGTGCGGCCCGATTGGCCCACGT
          APOSTART_7_GEN (5265) AAATCATGAGTTGACTGAAGAAGAGAAAATCTAGTATGGTCTTAGCGTTGTACGGTTCATCTTATGAACTTGTAGGCGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCTCACGT
          APOSTART_8_GEN (5277) AAATCATGAGTTGACTGAAGAAGAGAAAATCTAGTATGGTCTTAGCGTTGTACGGTTCATCTTATGAACTTGTAGGCTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
         APOSTART_10_GEN (5217) AAATCCTGAGTTGACTGAAGAAGAGAAAATCTAGTACGGTCTTATCATTGTACGGTTCATTTTATGAACTTGCAGGCTAACACGTATGACGAGCTCCCAGAGCAAGTGATCGGTGCAGCCCGGCTGGCCCACGT
         APOSTART_12_GEN (5231) AAATCATGAGTTGACTGAAGAAGAGAAAATCTAGTATGGTCTTAGCGTTGTACGGTTCATCTTATGAACTTGTAGGCGAACACGTATGACGAGCTCCCAGAGCAGGTGATCGGTGCAGCCCGGCTGGCCCACGT
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                    (5495) 5495 5500      5510      5520      5530      5540      5550      5560      5570      5580      5590      5600      5610      5621
                APOSTART 1 (2067) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGATGACGACTCGTCCAAGAAAACCAACTGA
                APOSTART 2 (2067) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGCTG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
                APOSTART_3 (2067) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGATGACGACTCGTCCAAGAAAACCAACTGA
                APOSTART_4 (2070) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
                APOSTART_5 (2067) CGAACCGGCAGCAGCCGTAGTACCTGATCTTGACAATAACAATGATAGTAAAGATAGCAGCAACGATG------ACAATAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
                APOSTART_6 (2067) CGAACCGGCTGCAGCGGTAGTACCTGACCTTGACAATAACAATGATAGTAAAGATATCAGCAACGATGACAATAACAATAACAATAACACTTCCTCGGAGTACGACTCGTCCAAGAAAACCAACTGA
                APOSTART 7 (2070) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
                APOSTART_8 (2043) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
                APOSTART_9 (2067) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
               APOSTART_10 (2052) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGACGACGACTCGTCCAAGAAAACCAACTGA
               APOSTART_11 (2064) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
               APOSTART_12 (2070) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
               APOSTART_14 (2040) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGA-AGCAGCAACGAT-------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
               APOSTART_15 (2136) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGAAGGACGACTCGTCCAAGAAAACCAACTGA
               APOSTART_13 (2040) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
          APOSTART_1_GEN (5355) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGATGACGACTCGTCCAAGAAAACCAACTGA
          APOSTART_2_GEN (5321) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGCTG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
          APOSTART_5_GEN (4962) CGAACCGGCAGCAGCCGTAGTACCTGATCTTGACAATAACAATGATAGTAAAGATAGCAGCAACGATG------ACAATAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
          APOSTART_6_GEN (4904) CGAACCGGCTGCAGCGGTAGTACCTGACCTTGACAATAACAATGATAGTAAAGATATCAGCAACGATGACAATAACAATAACAATAACACTTCCTCGGAGTACGACTCGTCCAAGAAAACCAACTGA
          APOSTART_7_GEN (5399) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
          APOSTART_8_GEN (5411) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
         APOSTART_10_GEN (5351) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGACGACGACTCGTCCAAGAAAACCAACTGA
         APOSTART_12_GEN (5365) TGAACCGGCGGCAGCGGTAGTACCTGACCTTGACAATAACAGTGATAGTAAAGATAGCAGCAACGATG------ACAACAACAATAACACTTCCTCGGAGGACGACTCGTCCAAGAAAACCAACTGA
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