Supplementary Figure 8

Alignments of circle-PCR products from *EP* mRNAs, using primer 51 with 3' primers 33 (Y) and 34 (Z). The sequences are shown with the 5'-ends first, and 3' ends last, with the middle segment (most of the ORF) represented as NNNNNNNNNN. Nucleotides that do not match the majority are in red, and poly(A) tails in blue. Clone numbers are in Table S4.

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                                 SL                                 5`UTR
                                 10        20        30        40        50        60        70        80        90       100       110       120
                                 |         |         |         |         |         |         |         |         |         |         |         |
                                 TTATTATTAGAACAGTTTCTGTACTATATTGACTTCAATTACACCAAAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTATCTACTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG

Y-3-3   →                TTATTATTAGAAcaGTTTCTGTACTATATTGACTTCAATTACACCGAAAAGtAAAATTCacaATGGCACCTCGTTCCCTTTATCTactcGCTgtnnttCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-4-3   →                   TTATTAGAACAGTTTCTGTActaTATTGACTTCAATTACACCAAAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTGTCTGCTCGCtgTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-3-2   →                   TTATTAGAACAGTTTCTgtACTATATTGACTTCAATTACACCAAAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTATCTACTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-3-1   →                   TTATTAGAACAGTTTCTGTACTATATTGACTTCAATTACACCAAAAAGTAAAATTCAcaATGGCACCTCGTTCCCTTTATCTacTCGCTgTtcTTCTGTtcaGCGCGAACCTCNNNNNNNNNNCG
Y-1-2   →                   TTATTAGAACAGTTTCTGTACTACATTGACTTCAATTACACCAAAAAGTAAAATTCAcaATGGCACCTCGTTCCCTTTATCTACTCGCTGTtcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-1-5   →                    TATTAGAACAGTTTCTGTACTATATTGACTTCAATTACACCAAAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTATCTACTCGctGtTcTTCTGTTCAGCGCGAACCTCNNNNNNNNN
Y-1-4   →                    TATTAGAACAGTTTCTGTACTATATTGACTTCAATTACACCAAAAAGTAAAATTCAcaATGGCacCTCGTTCCCTTTATCTACtCGCtgtnnttCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-1-3   →                    tATTAGAACAGTTTCTgtActaTATTGACTTCAATTACACCAAAAAGTAAAATTCACAATGGCACCTcgtTCCCTTTATCTGCTCGCtgTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-4-2   →                                  TACTATATtaaCTTCAATTACACCAAAAAGTAAAATTCAcaATGGCacCTCGTTCCCTTTATCtacTCGCTgttctTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-1-1   →                                                                          ATGGCacCTCGTTCCCTTTATCTGCTCGCTgttcTTCTGTTcaGCGCGAACCTCNNNNNNNNNNCG
Y-4-5   →                                                                                        TCTGCTCGctgttctTCTGT-CAGCGCGAACCT-NNNNNNNNNNCG
Y-4-1   →                                                                                           acTCGCTgttcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-4-4   →                                                                                            cTCGCTGTtcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-2-2   →                                                                                             T-GCTgTtcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-2-3   →                                                                                               GCTGTTcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-2-4   →                                                                                               GCTGTTcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-2-5   →                                                                                               GCTGTTcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG
Y-2-1   →                                                                                                CTGTTcTTCTGTTCAGCGCGAACCTCNNNNNNNNNNCG

                                 130       140       150       160       170       180       190       200       210       220       230       240       250
                                 |         |         |         |         |         |         |         |         |         |         |         |         |
                                 CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAACAAGTGTGGACATTCATTTAATATTTTTTCGTTATATTTTTTwGGTGACATCCTTTCTAATGCCTTATTAACCATCGCCTG

Y-3-3   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAAcaAGTGTGGACATTCATTTAATATTTTTTCGTTATATTTTTT-GGTGACATCCTTTCTAATGCC
Y-4-3   →                CCTCCATAtgGTGCATCgtgctttGtTAA-T
Y-3-2   →                CCTCcaTATGGTGCATCgtgcttTGTTTCCTgctgTTTCTtgtAAAACAAGTGT-----TT--TTTA-T
Y-3-1   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAACAAGTGTGGACATTCATTTAATATTTTTTCGTTATATTTTTTTGGTGACATCCTTTCTAATGCCT
Y-1-2   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAACAAGTGTGGGCATTCATTTAA
Y-1-4   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAAcAAGTGTGGACATTCATTTAAT
Y-1-3   →                CCTCCATATGGTGCATCGAAAAA
Y-4-2   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTT
Y-1-1   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAACAAGTGTGGACATTCATTTAATATTTTTTCGTTATATTTTTTAGGTGACATCCTTTCTAATGCCTTATTAACCATCGCCTG
Y-4-5   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTATT-T----CTA-T-T
Y-4-1   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAAcaaGTGTGGACATTCATTTAATATTTTTT
Y-4-4   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAAAAcaAGTGTGGACATTCATTTAATATTTTTTa
Y-2-2   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTAA
Y-2-3   →                CCTCCATATGGTGCATCGTG-TTTGTTT
Y-2-5   →                CCTCCATATGGTGCATCGTG-TTTGTTT
Y-2-4   →                CCTCCATATGGTGCATCGTG-TTTGTTT
Y-2-1   →                CCTCCATATGGTGCATCGTG-TTTGTTTCCTGCTGTTTCTTGTTTTTT--GT-T

                                 260       270       280       290       300       310       320       330       340       350
                                 |         |         |         |         |         |         |         |         |         |
                                 AGACCCacaGCCCTGTAGATTTCTGTGATGTTTCGGTTGCGTATTCCATAATTTTAAGCGTTTCACTTCTatTTTTTTtcATTCCTTTGAATTT

Y-1-1   →                AGACCCacaGCCCTGTAGATTTCTGTGATGTTTCGGTTGCGTATTCCATAATTTTAAGCGTTTCACTTCTatTTTTTTtcATTCCTTTGAATTT
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                                  SL                                  5`UTR
                                  <-------------------------------------|-------->
                                   10        20        30        40        50        60        70        80        90       100       110       120
                                    |         |         |         |         |         |         |         |         |         |         |         |
                                    TATTAGAACAGTTTCTGTACTATATTGACTTCAATTACACCAAAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTATCTRCTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-3-3   →   TATTAGAACAGTTTCTGTActaTATTGACTTCAATTACACC-AAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTATCTGCTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-3-2   →     aTAGAACAGTTTCTGTACTATATTGACTTCAATTACACCAAAAAGTAAAATTCACAATGGCacCTCGTTCCCTTTATCTGCTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-4-1   →                                ActTCAAtTACACCAAAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTATCTGCTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNN
Z-1-1   →                                ACTTCAATTACACCAAAAAGTAAAATTCACAATGGCACCTCGTTCCCTTTATCTACTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNN
Z-4-3   →                                                   AGTAAAATTCACAATGgCACCTCgtTCCCTTTATCTACTCGCTGTTCTTCTGTTCAgcnnGAa----NNNNNNNNNNGATTT
Z-2-5   →                                                                GTGGCacCTCGTTCCCTTTATCTGCTCGCTGTTCTTCTGTTcaGCGCGAACCTCNNNNNNNNNNGATTT
Z-1-4   →                                                                ATGGCACCTCGTACCCTTTATCTACTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-1-7   →                                                                 TGGCACCTCGTTCCCTTTATCTGCTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-4-4   →                                                                        TCGTTCCCTTTATCTACTCGCTGTTCTTCTGTTCAGCG-GAACCTCNNNNNNNNNNGATTT
Z-1-3   →                                                                           TTCCCTCTATCTGCtcGCTGTtcttCtGTtcagCGCGAACCtcNNNNNNNNNNGATTT
Z-2-4   →                                                                                T-TCTGCTCGCtGTCctTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-1-5   →                                                                                     GCtcGCTGTTCTTCTGTtcagCGCGAACCTCNNNNNNNNNNGATTT
Z-4-5   →                                                                                      CTCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-4-2   →                                                                                       TCGCTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-2-2   →                                                                                          CTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-2-1   →                                                                                          CTGTTCTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT
Z-1-2   →                                                                                               CTTCTGTTCAGCGCGAACCTCNNNNNNNNNNGATTT

                                   130       140       150       160       170       180       190       200       210       220
                                    |         |         |         |         |         |         |         |         |         |
                                    CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TATTTTTTTTCATTCCT-TTGAAT-TTGGATCTTA---AaTTTWTTWAAAAA
Z-3-3   →   CTGTGATGTTTCGGTTG-C-GTAAAAAA
Z-3-2   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TatTTTTTTt
Z-4-3   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAngn
Z-2-5   →   CTGTGATGTTTCGGTTG-CCGCCT-CCATA-------G-GTG-CA-T-C
Z-1-4   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGCTCCACTTC-TATTTTTTTTCATTCCT-TTGAAT-TTGGATCTTA---AAT
Z-1-7   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TatTTTTTTtcATTCCT-TTGAAT-TTGGATCTTA---A-T
Z-4-4   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TatTTTTTTtcATTCCT-TTGAAT-TTGGATCTTA---AAATTATTAAAAAA
Z-1-3   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TatTTTTTTtcATTCCT-TTGAAT-TTGGA
Z-2-4   →   ctgtGAtgttTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCAcTtc-TATttTTTTTCAtTCCt-tngAAT-TTG
Z-1-5   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAaGCGTTTCacTTC-TATTTTTTT-CATTCCT-TTGA-T
Z-4-5   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TatTTTTTTtcATTCCT-TTGAAT-TTGGAT
Z-4-2   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TatTTTTTTtcATTCCT-TTGAAT-TTGGATC
Z-2-2   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAAGCGTTTCACTTC-TATTTTTT
Z-2-1   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAGGCGTTTCACTTC-TatTTTTTTcGTTCCT-TTGAAT-TTGGATCTTATTTatTTTTTTta
Z-1-2   →   CTGTGATGTTTCGGTTG-C-GTATTCCATAATTTTAaGCGTTTCacTTC-TatTTTTTTcATTCCT-TTGAAT-TTGGATCTTA---A-T
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