Figure S13. Human-mouse-fugu alignment and predicted TFBS of CNE6.

TFBS on the forward strand are shown in blue and TFBS on the reverse strand are shown in red below the human-mouse-fugu sequence alignment. The binding TF and position weight matrix similarity score are listed next to each predicted site. Sequence enclosed in blue box is an instance of a motif over-represented in the CNEs of central nervous system-expressed TF-encoding genes. Motif numbers are listed and described in Table 3.

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CAACTT--TCACTGACTAGAGTTTTCAAGGAGCTATGAATGAGTTTAACAAAGGAGGTCT 58
human
         CAACTT--CCACTGACTAGAATTTTCAAGGGGGCTGTGAATGAGTTTAACAAAGGAGGTCT 58
mouse
         CAGCTTTCTCCCTACTCACAGTTCACAGAGAGTCCTGAATGAGATTAACAAAAGCGTTCT 60
fugu
                                    aggagctatgAATGagt 0.919 HMGA.01
                                      gagctatgAATGagttt 0.935 HBP1.01
                                         ctatgAATGagtttaac 0.967 NANOG.01
                                                  agtttaaCAAAggaggt 0.936 LEF1.01
                                                       aacAAAGgaggtc 0.966 GKLF.02
human
         GT-GGCTAGTTTCTGGCTGAAGTCCATGTCAACAGTTTTTAAGGTCACAGGCCACACTAA 117
         GT-GGCTAGTTTCTGGCTGAAGTCCATGTCAACAGTTTTTAAGGTCACAGGCCACACTAA 117
mouse
fugu
         GTCAGACCCCTCTTGGCCAGGTTCCACGTCAACAGCTCACAGGGTCAAGGGTCACACTAA 120
                                          agtttttaaGGTCacaggccaca 0.96 VERBA.01
                                          agtttttAAGGtcacaggc 0.916 ERR.01
                                             ttttAAGGtcacagg 0.927 NBRE.01
human
         CTAACATTTATTCCCAGCAGACCC--TGTTCTAAACACAAGCTGTAAGTAGTACAAATTT 175
         CTAACATTTATTCCCAGCAGACCC--TGTTCTAAACACAAGCTGTACATAGTACAAATTT 175
mouse
         CT-ACATTCATTCCCAGCAGACCCTTTGGTCCAAACACAGGCTGCCAGTCACAAAACTC 179
fuqu
         taACATttatt 0.979 SMARCA3.01
                     ccagcagaccc--TGTTctaa 0.907 PRE.01
                                                                    t... 0.922 MTBF.01
                                                             Motif #1
        GGAATTTTT-CTGTAATCCCTTGAGATATTCCTGATCCTTCCACATGTTTCTGCTCAATT 234
human
         GAAATTTTT-CTGTAATCCCTTGAGATATTCCTGATCCCTCCACATGTTTCTGCTCAATT 234
mouse
        TCAGTTTTTCCTCTAATCCCTTGAGATATGTCTGATCTCTCCACATGTTTCTGCTCAATT 239
fuqu
      ...ggaATTTt 0.922 MTBF.01
                 t-ctgTAATcccttgaga 0.982 GSC.01
                                      tcctgatcCTTCcacatgtttctgc 0.922 HSF2.01
                                              cttCCACatgtttctgctc 0.903 PAX6.04
                                                  cacatGTTTctgc 0.986 AREB6.04
                                                         ttctgctcaATT... 0.972
                                                                               BARX2.01
                                                            tgctcaaTT... 0.923
                                                                                HMX3.02
                                                             gctcaATT... 0.957 BRIGHT.01
                                                             gctcaaTT... 0.926 NKX61.01
                                                               tcaaTT... 0.92 HMX3.02
human
         AAAAACAAT
                                                                      243
        AAAAACAAT
                                                                      243
mouse
         -AAAGCAAT
                                                                      247
fuqu
      ...Aaaaa 0.972 BARX2.01
      ...AAaaac 0.923 HMX3.02
      ...Aaaaa 0.957 BRIGHT.01
      ...AAa 0.926 NKX61.01
      ...AAaaacaat 0.92 HMX3.02
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