Supplementary Figure 1B

B

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                    10        20        30        40
HUMAN      MAASPARPAVLALTGLALLLLLCWGPGGISGNKLKLMLQKREA-PVPT
MACAQUE    MAASPARPAVLALTGLALLLLLCWGPGGISGNKLKLMLQKREA-PVPT
DOG        MAASSARPAVLALTALALLLLLCLGPGGISGNKLKLLLQKREA-PAPA
MOUSE      MSTSSARPAVLALAGLALLLLLCLGPDGISGNKLKKMLQKREG-PVPS
RAT        MGTSSARPAVLALAGLALLLLLCLGPGDVSGNKLKKMLQKREG-PVPS
COW        MATSSARPAFLVMTALALLLLLCVGPGGISGNKLKLLLRKREA-PAPT
FUGU       MASQQLWSRVLGL----FLLLFAFHDVSTSSS-LHRILKRRDALNPPS
TETRAODON  MASQQLRLRVLGL----VLLLFALQDESSSSS-LQRILKTRDAGDPPA

           50        60        70        80        90
HUMAN      KTKVAVDENKAKEFLGSLKRQKRQLWDRTRPEVQQWYQQFLYMGFDEA
MACAQUE    KTKVAVDENKAKEFLGSLKRQKRQLWDRTRPEVQQWYQQFLYMGFDEA
DOG        KTNVAVGESKAKEFLSGLKRQKRQLWDRTRPEVQQWYQQFLYMGFDEA
MOUSE      KTNVAVAENTAKEFLGGLKRAKRQLWDRTRPEVQQWYQQFLYMGFDEA
RAT        KTNVAVSEHTAKEFLGGLKRAKRQLWDRTRPEVQQWYQQFLYMGFDEA
COW        MTPVAVQESRAKEFLSSLRRPKRQLWDRSRPEVQQWYQHFLYLGFDEA
FUGU       RAAVAIPSTKAQEFLGKLSRTKRNIWDRSRADVQQWIQQFMYLGFDEQ
TETRAODON  RASVAVPPARAQEFLAPLSRTRRNIWDRSRPDVQQWIQQFMYLGFDEQ

           100       110       120       130       140
HUMAN      KFEDDITYWLNRDRNGHEYYGDYYQRHYDEDSAIGPRSPYGFRHGASV
MACAQUE    KFEDDITYWLNRDRNGHEYYGDYYQRHYDEDSAIGARSPYSFRHGASV
DOG        KFEDDITYWLNRDRNGHDY--DYYQRHYDEDAAIGPQSPYSFRHGASV
MOUSE      KFEDDVNYWLNRNRNGHDYYGDYYQRHYDEDAAIGPHSRESFRHGASV
RAT        KFEDDVNYWLNRNQNGHDYYGDYYQRHYDEDAAIGPRSREGFRHGASV
COW        KFEDDISYWLNRNRNGHDYY-DYYQRHYDEDSAIGPRSAHSFRHGASV
FUGU       RLEADLSYWMDQARSNNQGR----QHHYDENSPTGPRDPSSYRYGADV
TETRAODON  QLEADLSYWMDHARAHDQGR----QHHYDENGPLGPRAPSSYRHGADV

HUMAN      NYDDY
MACAQUE    NYDDY
DOG        NYDDY
MOUSE      NYNDY
RAT        NYDDY
COW        NYDDY
FUGU       NYDYY
TETRAODON  NYDYY
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