


A


```

Homo_sapiens      GTVVGDTPAYLYEERWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Pan_troglodytes   GTVVGDTPAYLYEERWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Gorilla_gorilla   GTVVGDTPAYLYEERWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Macaca_mulatta    GTVVGDTPAYLYEERWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Canis_familiaris  GTVVGDTPAYLYEERWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Rattus_norvegicus GTVVGDTPAYLYEGRWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Mus_musculus      GTVAGDTPAYLYEGRWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Bos_taurus        GTVVGDTPAYLYEERWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Sus_scrofa        GTVVGDTPAYLYEGRWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGAARHG
Monodelphis_domestica DTVVGDTPSYLYEGRWTPPCCLRALRETARHVIGVLEAARVRYWLEGGSLLGAVRHG
Gallus_gallus     GTVLARTPRYLLQGRWTPPCCLRALRETAKHVVEVLEGSVRYWLEGGSLLGAVRLR
Anolis_carolinensis GTIHDDTPEYLYQNRWTPPCCLRALRETAKYVINILETSGVRYWLEGGTLLGAARHQ
Xenopus_tropicalis GTVVEGTPQYLYNNQWTPPCCLRALRTTTHHVIKVLEASGVRYWLEGGSLLGAARNG
Danio_rerio       GTVRDDTPEYLYIERWTPPCCLRALRETTKYVINILESSGVRYWLEGGSLLGAARHQ
.*:  ** **  :*****:*** *::*: :** : *****:****.*


```

B


```

Homo_sapiens      AGGGCCGAAAAGAAGGGTAGG-----TGTGCAACCCTAGA-G
Pan_troglodytes   AGGGCCGAAAAGAAGGGTAGG-----TGTGCAACCCTAGA-G
Gorilla_gorilla   AGGGCCGAAAAGAAGGGTAGG-----TGTGCAACCCTAGA-G
Macaca_mulatta    AGGGCCGAAAAGAAGGGTAGG-----TGTGCAACCCTAGA-G
Canis_familiaris  AGGGTCGCAAGGAAGGGTAAG-----TGTGTGACCCAGGA-G
Felis_catus       AGGGTCGCAAGGAAGGGTAAG-----CGTGCAATCCGGGA-G
Rattus_norvegicus AGGGCCGGAAGGAAGGGTAAG--AAGGGGCAACCCAGGAAG
Mus_musculus      AGGGACGGAAGGAAGGGTGAG-----GGGGCAACCCGGGAAA
Equus_caballus    AGGGCCGCAAGGAAGGGTAGG-----TATGCAGCCCAGGA-G
Bos_taurus        AGGGCCGCAAGGAAGGGTAGG-----TATGCAGCCCAGGA-G
Sus_scrofa        AAGGTCGAAAGGAAGGGTAGG-----CATGCGACCAGGGA-G
Monodelphis_domestica AAGGTCGAAAGGAGGGGTAGGCTTGGTGGGGAATCCTCATGG
Xenopus_tropicalis CCGGCCACAAAGAAGGGTGCGTGCTTTATAACACTAAGGGGC
Danio_rerio       CCGGATATTTTGAGGGGTGAG-----GCTACGTATCATATCA
          **          ** **** *

```

C


```

Homo_sapiens      ASCEEEELPPDPSEETLLTIEARFQPLLPETMTK
Pan_troglodytes   ASYEEEEELPPDPSEETLLTIEARFQPLLPETMTK
Gorilla_gorilla   ASYEEEEELPPDPSEETLLTIEARFQPLLPETMTK
Macaca_mulatta    ASYEEEEELPPDPSEETLLTIEARFQPLLPETMTK
Canis_familiaris  ASYEEEEELPLDPSEETLLTIEARFQPLIPESMTK
Felis_catus       AASYEEEEELPLDPSEETLLTIEARFQPLIPESMTK
Rattus_norvegicus ASYEEEEELPHDPSEETLLTIEARFQPLLTETMTK
Mus_musculus      ANYEEEEELPHDPSEETLLTIEARFQPLLMETMTK
Equus_caballus    ASYEEEEELPPDPSEETLLTIEARFQPLLPESMTK
Bos_taurus        ANYEEEEELPPDPSEETLLTIEARFQPLLPESMTK
Sus_scrofa        ASYEEEEELPPDPSEETLLTIEARFQPLLPESMTK
Gallus_gallus     VSDFEED-APDPNGETLSIVAKFQPLVMETMTK
Xenopus_tropicalis TSDYEEEEELLDPNGETLSVASRFQPLLMETMTK
Danio_rerio       PPEYEEEEIPHDPNGETLTLHAKMQPLLLESMTK
          **:  ** . ***:: :::***: *:***

```

D



Homo_sapiens	HHINANYFLDITSVKPEEIES-NLFSFSSTFED
Pan_troglodytes	HHINANYFLDITSMKPEEIES-NLFSFSSTFED
Gorilla_gorilla	HHINANYFLDITSMKPEEIES-NLFSFSSTFED
Macaca_mulatta	HHINANYFLDITSMKPEEVES-HLFSFSSTFED
Canis_familiaris	HHINANYFLDITSMKPEDVEN-NVFSFSSTFED
Felis_catus	HHINANYFLDITSMKPEDIEN-NVFSFPSTFED
Rattus_norvegicus	HHINANYFLDITSMKPEDMENTNVFSFSSTFED
Mus_musculus	HHINANYFLDITSMKPEDMENNNVFSFSSSFED
Equus_caballus	HHINANYFLDITSMKPEDIES-NVFSFSSTFED
Bos_taurus	HHINANYFLDITSMKPEDIEN-HVFSFSSTFED
Sus_scrofa	HHINANYFLDITSMKPQDIEN-NVFSFSSTFED
Gallus_gallus	HHINANYFLDITSMKPEDVES-SIFSFSANFDD
Anolis_carolinensis	HHINANYFLDITSMKPEEVES-SIFSFSSTSFED
Xenopus_tropicalis	HHINANYFLDITSLKPDEVET-NLFSFSDGVED
Danio_rerio	HHINANNFLDQTSMKP-EDEG-PGLSFSAGFED

***** *** **:*** : * :**. .:*