```
                                  10        20        30        40        50        60        70        80        90       100
                         ---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
 1 Sus scrofa            CACAGGTTTG GTCCTGGCCT TTCTATTAAT TCTTAATAAA ATTACACATG CAAGTATCCG CGCCCCGGTG AGAATGCCCT CCAGATCTTA AAGATCAA-A
 2 Sus scrofa2           CACAGGTTTG GTCCTGGCCT TTCTATTAAT TCTTAATAAA ATTACACATG CAAGTATCCG CGCCCCGGTG AGAATGCCCT CCAGATCTTA AAGATCAA-A
 3 Bos taurus            CATAGGTTTG GTCCCAGCCT TCCTGTTAAC TCTTAATAAA CTTACACATG CAAGCATCTA CACCCCAGTG AGAATGCCCT CTAGGTTATT AAA--ACT-A
 4 Bos taurus2           CATAGGTTTG GTCCCAGCCT TCCTGTTAAC TCTTAATAAA CTTACACATG CAAGCATCTA CACCCCAGTG AGAATGCCCT CTAGGTTATT AAA--ACT-A
 5 Ovis aries            TATAGGTTTG GTCCCAGCCT TCCTGTTAAC TTTCAATAGA CTTATACATG CAAGCATCCA CGCCCCGGTG AGTAACGCCC TTCGAATCAC ACAGGACT-A
 6 Ovis aries2           TATAGGTTTG GTCCCAGCCT TCCTGTTAAC TTTCAATAGA CTTATACATG CAAGCATCCA CGCCCCGGTG AGTAACGCCC TTCGAATCAC ACAGGACT-A
 7 Ovis aries-part       AG-------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 8 Ovis aries-part       CAAA------ ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
  9 Diff Ovis            ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
10 Capra hircus          CATAGGTTTG GTCCCAGCCT TCCTGTTAAC TCTCAACAGA CTTACACATG CAAGCATCCA CGCCCCGGTG AGTAACGCC- CTCCAAATCA ATAAGACT-A
11 Capra sibirica        TATAGGTTTG GTCCCAGCCT TCCTGTTAAC TTTCAACAGA CTTACACATG CAAGCATCCA CGCCCCGGTG AGTAACGCC- CTCCAAGTCA ATAAGACT-A
12 Capra cylindricornis  NATAGGTTTG GTCCCAGCCT TTCTGTTAAC TTTCAACAGA CTTACACATG CAAGCATCCA CGCCCCGGTG AGTAACGCC- CTCCAAATCA ATAAGACT-A
13 Capra aegagrus-part   T--------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 14 Diff Capra           *--------- ---------- -*-------- -*-------- ---------- ---------- ---------- ------*--- ---------- ----------
 15 Diff Ovis-Capra      *--------- ---------- -*-------- -*----*--- ----*----- ---------- ---------- ---------* *--*--**** -*-*------
16 Gallus                AAAAGACTTA GTCCTAACCT TTCTATTGGT TTTTGCTAGA CATATACATG CAAGTATCCG CATCCCAGTG AAAATGCCCC CAAACCTTTC TTCCCAAGCA
17 Lemur catta           TATAGGTTTG GTCCTAGCCT TACTATTAGT TTACAGTAAG ATTACACATG CAAGTAACCG CATCCCAGTG AG-AATGCCC TCCAAATCCC C--TGATT-A
18 Hippopotamus amphibiu TACAGGTTTG GTCCCAGCCT TTCTGTTAAT TTTTAATAGA ATTACACATG CAAGTATCCA CACCCCAGTG AGAATGCCCT CTAAATCACC CAGATCAA-A
19 Balaenoptera musculus TAAAGGTTTG GTCCCAGCCT TTCTATTAGT TCTTAACAAA CTTACACATG CAAGCGTCTA CATCCCGGTG AGAATGCCCT CTAAATCACA AAGATCAA-A
 20 Diff all             *-*--**--* ----***--- -*--*--*** -******-** **--*----- ----***-** -**---*--- -**-***--* ********** *********-

                                 110       120       130       140       150       160       170       180       190       200
                         ---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
 1 Sus scrofa            AGGAGCAGGT ATCAAGCACA CCTATAACGG TAGCTCATAA CGCCTTGCTC AA-CCACACC CCCACGGG-A AACAGCAGTG ATAAAAATTA AGCCATGAAC
 2 Sus scrofa2           AGGAGCAGGT ATCAAGCACA CCTATAACGG TAGCTCATAA CGCCTTGCTC AA-CCACACC CCCACGGG-A AACAGCAGTG ATAAAAATTA AGCCATGAAC
 3 Bos taurus            AGAGGAGCTG GCATCAAGCA CACACCCT-G TAGCTCACGA CGCCTTGCTT AA-CCACACC CC-ACGGG-A AACAGCAGTG ACAAAAATTA AGCCATAAAC
 4 Bos taurus2           AGAGGAGCTG GCATCAAGCA CACACCCT-G TAGCTCACGA CGCCTTGCTT AA-CCACACC CC-ACGGG-A AACAGCAGTG ACAAAAATTA AGCCATAAAC
 5 Ovis aries            AAAGGAGCAG GTATCAAGCA CACACTCTTG TAGCTCACAA CGCCTTGCTT AA-CCACACC CCCACGGG-A GACAGCAGTA ACAAAAATTA AGCCATAAAC
 6 Ovis aries2           AAAGGAGCAG GTATCAAGCA CACACTCTTG TAGCTCACAA CGCCTTGCTT AA-CCACACC CCCACGGG-A GACAGCAGTA ACAAAAATTA AGCCATAAAC
 7 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 8 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
  9 Diff Ovis            ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
10 Capra hircus          AGAGGAGCAG GTATCAAGCA CACATCTC-G TAGCTTACAA CGCCTCGCTT AA-CCACACC CCTACGGG-A GACAGCAGTG ACAAAAATTA AGCCATAAAC
11 Capra sibirica        AGAGGAGCAG GTATCAAGCA CACATCTCTG TAGCTTACAA CGCCTTGCTT AA-CCACACC CCTACGG--A GACAGCAGTG ACAAAAATTA AGCCATAAAC
12 Capra cylindricornis  AGAGGAGCAG GTATCAAGCA CACATCTCTG TAGCTTACAA CGCCTTGCTT AA-CCACACC CCTACGG--A GACAGCAGTG ACAAAAATTA AGCCATAAAC
13 Capra aegagrus-part   ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 14 Diff Capra           ---------- ---------- --------*- ---------- -----*---- ---------- ------*--- ---------- ---------- ----------
 15 Diff Ovis-Capra      -*-------- ---------- ----*****- -----*---- -----*---- ---------- --*----*-- ---------* ---------- ----------
16 Gallus                AAAGGAGCAG GTATCAGGCA CACTCAGCAG TAGCCCAAGA CGCCTTGCTT AAGCCACACC CCCACGGGTA CTCAGCAGTA ATTAACCTTA AGCAATAAGT
17 Lemur catta           ACAGGAGCAG GTATCAAGCA CACCAATAGG TAGCTCACCA CACCTTGCTA AA-CCACACC CCCACGGG-A TACAGCAGTG ATTGAACTTA AGCAATAAAC
18 Hippopotamus amphibiu AGGAGCGGGT ATCAAGCACA CCATACACCG TAGCTCAAAA CGCCCTGCTC AG-CCACACC CCCACGGG-A AACAGCAGTG ACCAAAATTA AGCCATGAAC
19 Balaenoptera musculus AGGAGCAGGT ATCAAGCACG CTAGTACTAG CAGCTCACAA CGCCTCGCTT AG-CCACACC CCCACGGG-A CACAGCAGTG ATAAAAATTA AGCTATAAAC
 20 Diff all             -***-***** ********-* -********- *---**-**- -*--**---* -**------- --*----*-- **-------* -***-**--- ---*--*-**

                                 210       220       230       240       250       260       270       280       290       300
                         ---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
 1 Sus scrofa            GAAAGTTTGA CTAAGTTATA TTAA---TTA GAGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCAAAT TAATAGATCC ACGGCGTAAA
 2 Sus scrofa2           GAAAGTTTGA CTAAGTTATA TTAA---TTA GAGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCAAAT TAATAGATCC ACGGCGTAAA
 3 Bos taurus            GAAAGTTTGA CTAAGTTATA TTAA---TTA GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCAAGC TAACAGGAGT ACGGCGTAAA
 4 Bos taurus2           GAAAGTTTGA CTAAGTTATA TTAA---TTA GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCAAGC TAACAGGAGT ACGGCGTAAA
 5 Ovis aries            GAAAGTTTGA CTAAGTCATA TTGACC---A GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TGACCCAAGC TAACAGGAGT ACGGCGTAAA
 6 Ovis aries2           GAAAGTTTGA CTAAGTCATA TTGACC---A GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TGACCCAAGC TAACAGGAGT ACGGCGTAAA
 7 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 8 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
  9 Diff Ovis            ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
10 Capra hircus          GAAAGTTTGA CTAAGCCATG TTGACC---A GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCAAGC TAACAGGAAT ACGGCGTAAA
11 Capra sibirica        GAAAGTTTGA CTAAGCCATG TTGACC---A GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCGAGC TAACAGGAAT ACGGCGTAAA
12 Capra cylindricornis  GAACGTTTGA CTAAGCCATG TTGACC---A GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCGAGC TAACAGGAAC ACGGCGTAAA
13 Capra aegagrus-part   ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 14 Diff Capra           ---*------ ---------- ---------- ---------- ---------- ---------- ---------- ------*--- ---------* ----------
 15 Diff Ovis-Capra      ---*------ -----*---* ---------- ---------- ---------- ---------- -*----*--- --------** ----------
16 Gallus                GTAAACTTGA CTTAGCCATA GCAACCC--A GGGTTGGTAA ATCTTGTGCC AGCCACCGCG GTCATACAAG AAACCCAAAT CAATAGCTAC CCGGCGTAAA
17 Lemur catta           GAAAGTTTGA CTAAGCTATA CTGACACTTA GGGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TAACCCAAAC TAATATTTCC -CGGCGTAAA
18 Hippopotamus amphibiu GAAAGTTTGA CTAAGCCATA TTAACC---A GAGTTGGTAA ATCTCGTGCC AGCCACCGCG GTCATACGAT TGACTCAAAC TAACAGAAAT ACGGCGTAAA
19 Balaenoptera musculus GAAAGTTTGA CTAAGTTATG TTAATA---A GGGTTGGTAA ACTTCGTGCC AGCCACCGCG GTCATACGAT TAACCCAAAT TAATAGAAAC ACGGCGTAAA
 20 Diff all             -*-***---- --*--**--* ***-*****- -*-------- -**-*----- ---------- -------*-* **--*-*-** *--*-***** *---------

                                 310       320       330       340       350       360       370       380       390       400
                         ---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
 1 Sus scrofa            GAGTGTTTAA GAAAAAAAAT CAC-AA-TAG AGTTAAATTA TAACTAAGCT GTAAAAAGCC CTAGTTAAAA TAAAA-TAAC CCACGAAAGT GACTCTAATA
 2 Sus scrofa2           GAGTGTTTAA GAAAAAAAAT CAC-AA-TAG AGTTAAATTA TAACTAAGCT GTAAAAAGCC CTAGTTAAAA TAAAA-TAAC CCACGAAAGT GACTCTAATA
 3 Bos taurus            ACGTGTTAAA GCACCATACC AA--A--TAG GGTTAAATTC TAACTAAGCT GTAAAAAGCC ATGATTAAAA TAAAAATAAA TGACGAAAGT GACCCTACAA
 4 Bos taurus2           ACGTGTTAAA GCACCATACC AA--A--TAG GGTTAAATTC TAACTAAGCT GTAAAAAGCC ATGATTAAAA TAAAAATAAA TGACGAAAGT GACCCTACAA
 5 Ovis aries            GCGTGTTAAA GCATCATACT AA--A--TAG AGTTAAATTT TAATTAAACT GTAAAAAGCC ATAATTATAA CAAAAATAAA TGACGAAAGT AACCCTACAA
 6 Ovis aries2           GCGTGTTAAA GCATCATACT AA--A--TAG AGTTAAATTT TAATTAAACT GTAAAAAGCC ATAATTATAA CAAAAATAAA TGACGAAAGT AACCCTACAA
 7 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 8 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
  9 Diff Ovis            ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
10 Capra hircus          ACGTGTTAAA GCACTACATC AA--A--TAG AGTTAAATTC TAATTAAACT GTAAAAAGCC ATAATTACAA CAAAAATAGA TGACGAAAGT AACCCTACTG
11 Capra sibirica        ACGTGTTAAA GCACTACATC AA--A--TAG AGTTAAATTC TAATTAAACT GTAAAAAGCC ATAATTACAA CAAAAATAGA TGACGAAAGT AACCCTACTG
12 Capra cylindricornis  ACGTGTTAAA GCACTGCATC AA--A--TAG AGTTAAATTT TAATTAAACT GTAAAAAGCC ATAATTACAA CAAAAATAGA TGACGAAAGT AACCCTACTG
13 Capra aegagrus-part   ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
 14 Diff Capra           ---------- -----*---- ---------- ---------* ---------- ---------- ---------- ---------- ---------- ----------
 15 Diff Ovis-Capra      *--------- ---****-** ---------- ---------* ---------- ---------- ------*--- ------*--- ---------- --------**
16 Gallus                GAGTGGCCAC ATGTTATCTG CACCAGCTAA GATTAAAATG CAACCAAGCT GTCATAAGCC TAAGATCCAC CTAAACCCAA CCCAAATCCA TCTTAGCCTC
17 Lemur catta           GTGTGTTTAA GATTTATA-T AA--A-┼-TAA AGTTAATTTT TATCCAAGCC GTAAAACGCC CCAGCTAAAA CAAAACTAAC CTACGAAAGT GACTTTAATA
18 Hippopotamus amphibiu GCGTGTTAAA GAATTAAAAG TACAAA-TAA AGTTAAATTC TAACTAAACT GTAAAAAGCC CTAACTAGAA TAAAAATCTA CTACAAAAGT GACTTTAACA
19 Balaenoptera musculus GAGTGTTAAG GAGTCTCATA ---GAA-TAA AGTCAAACCT TAATTAAGCT GTAAAAAGCC ATAATTAAAA TTAAGCCAAA CTACGAAAGT GACTTTAATA
 20 Diff all             **---***-* ********** ****-**--* **-*--**** *-****--*-* --*-*-*--- *****-**-* **--****** ***** ***** **********

                                 410       420       430       440       450       460       470       480       490       500
                         ---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
 1 Sus scrofa            AT-------- CCTGACACAC GATAGCTAGG ACCCAAACTG GGATTAGATA CCCCACTATG CCTAGCCCTA AACCCAAATA GTTACATAA- CAAAACTATT
 2 Sus scrofa2           AT-------- CCTGACACAC GATAGCTAGG ACCCAAACTG GGATTAGATA CCCCACTATG CCTAGCCCTA AACCCAAATA GTTACATAA- CAAAACTATT
 3 Bos taurus            TA-------- GCCCACGCAC TATAGCTAAG ACCCAAACTG GGATTAGATA CCCCACTATG CTTAGCCCTA AACACAGATA ATTACATAAA CAAAATTATT
 4 Bos taurus2           TA-------- GCCCACGCAC TATAGCTAAG ACCCAAACTG GGATTAGATA CCCCACTATG CTTAGCCCTA AACACAGATA ATTACATAAA CAAAATTATT
 5 Ovis aries            TA-------- GCTGATACAC CATAGCTAAG ACCCAAACTG GGATTAGATA CCCCACTATG CTTAGCCCTA AACACAAATA ATTATAAAAA CAAAATTATT
 6 Ovis aries2           TA-------- GCTGATACAC CATAGCTAAG ACCCAAACTG GGATTAGATA CCCCACTATG CTTAGCCCTA AACACAAATA ATTATAAAAA CAAAATTATT
 7 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ------CCCT AAATCAAATA ATTATAAAAA CATATTTATT
 8 Ovis aries-part       ---------- ---------- ---------- ---------- ---------- ---------- ---------- --------TA ATTATAAGAA CAAAATTATT
  9 Diff Ovis            ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
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