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COW      1  -----TTTTTTTGGGGAAAGAAACAAGCTTTATTG
FLY      1  CCGGAGT-GGTCGTATTGGGCAATTTTAATTTTACGTGCGCAATTTAACA----TTAT--
CELEGANS 1  -----
FLOWER   1  -----
SOY      1  GAGCCAA-GGTAG-----
HOMO     1  GCGGCATGGGCAGTATCCG-----
PIG      1  -----
MOUSE    1  -----
RAT      1  -----
TROUT    1  -----
FROG     1  ----AATCGGCTGTCTAGG-----
DANIO    1  -----
1  1.....10.....20.....30.....40.....50.....

COW      31  AGCCACAGCCCTAG----TTCTCCTTCTCCTGCACAGTCTTGTTCCCGGAGACGGCC
FLY      54  AACCGTGTAAACATGGAATATTTCAATTTTCCGTCAAAT----ATTGGAATAAGATCGAA
CELEGANS 1  -----
FLOWER   1  -----
SOY      13  -----GTTAAA-----
HOMO     20  --CCGC---CAT-----CCTCTTCCGTGA-----
PIG      1  -----
MOUSE    1  -----
RAT      1  -----
TROUT    1  -----
FROG     16  --CGAAGAACTT-----CCTCTT-----
DANIO    1  -----
61  61.....70.....80.....90.....100.....110.....

COW      86  TGTCCG--GCGGGCAGCAATGA-----GACCCACTTTCCGG
FLY      110  ATTCCGTAGCGTGTGTCATTGAAGATGGCCATCTTATTTAGTGAAACCGCCGATTGCA
CELEGANS 1  -----
FLOWER   1  -----
SOY      19  -----CAATCTTCTTCATCGTCTCGCC-----
HOMO     39  -----GGCGCGCTGAGACCCGGACCGGCCCTCCTGAGAG
PIG      1  -----
MOUSE    1  -----
RAT      1  -----
TROUT    1  -----
FROG     33  -----CGCGGATAGCCCCGGCCTAGTG
DANIO    1  -----
121  121.....130.....140.....150.....160.....170.....

COW      120  CCAGCAGGGGCGT-----CTCTGCGAATAGTAGAGGGTTTGCCG
FLY      170  ATATGGAGTTCGAGTACTAATCCCGTGAATTTGTCTTGACAGCAATGGGTGCGTTATTCG
CELEGANS 1  -----
FLOWER   1  -----ATGGGTCTGTGTCATCAG
SOY      42  -----GCAATGGGACGTGTGATCCG
HOMO     73  GATGCCGGTGCGGGCGC---CCGCGGAGAGGGACCCGTCGCCATGGGCCGTGTGATCCG
PIG      1  -----
MOUSE    1  CTTGCCGG-----CAGACTCGCCGCCATGGGCCGTGTGATCCG
RAT      1  -----CAGACTCGCCGCCATGGGCCGTGTGATCCG
TROUT    1  -----GTTATCAG
FROG     55  CA-----CAATGGGACGTGTGATCAG
DANIO    1  -----
181  181.....190.....200.....210.....220.....230.....

COW      159  ATG-----TGCTGGTGGTTG-----CCACCT-----CGAAGGGATGC
FLY      230  TGCACAGCGTAAGGGAGCTGGTTCCGTGTTCAAGGCGCACGTGAAGAAGCGCAAGGGAGC
CELEGANS 18  CATCCAGCGTAAAGGAGCTGGTGAATCTTCAAGAGCCACAACAAGCACCGCCAAAGGAGC
FLOWER   18  AGCTCAACGTAAGGGTGCGGGTTCCGTCTTCAAATCCCACACTCACCACCGCCAAAGGTCC
SOY      62  TGCACAGTAGAGGGAGCAGGCTCGGTCTTCAAGTCCCACACGCACCACCGCCAAGGGCCC
HOMO     129  TGGACAGAGGAAGGGCGCCGGTCTGTGTTCCGCGGCACGTGAAGCACCGBAAAGGCGC
PIG      1  -----
MOUSE    39  AGGGCAGAGGAAAGGCGCGGGTCTGTTTTCCGTGCGCACGTGAAGCACCGBAAGGGCGC
RAT      31  AGGCCAGAGGAAAGGTGCCGGTCTGTGTTTCCGTGCGCACGTGAAGCACCGBAAGGGAGC
TROUT    9  GGGACAGAGAAA-GGTGCTGGCTCTGTGTTCAA-GCCCACGTGAAGCACAGAAAAGGTGC
FROG     76  GGGACAGAGAAAAGGTGCAGGCTCTGTTTTTAAAGCCCACGTCAAACACAGAAAAGGTGC
DANIO    1  -----
241  241.....250.....260.....270.....280.....290.....

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COW 192 T-----CGACAGGGTT----CATGGCCA-----
 FLY 290 CGCCAAGCTGCGTTCCCTGGACTTCGCCGAGCGTTCCGGCTACATCCCGGAGTTGTCAA
 CELEGANS 78 GTCCAAGCTCCGTCCTCTTGACTATGCCGAGAGACATGGCTACATCAAGGGACTCGTGAA
 FLOWER 78 GGCTAAGTTCGGTAGCCTCGATTTTCGGCGAGAGAAATGGTTACCTCAAGGGCGTGTGAC
 SOY 122 TGCCCGCTTCGGGAGCCTGGATTTTCGGAGAGCGCAACGGCTACCTGAAGGGTGTGTCAC
 HOMO 189 TGCGCGCTGCGCGCCGTGGATTTTCGCTGAGCGGCACGGCTACATCAAGGGCATCGTCAA
 PIG 1 -----
 MOUSE 99 CGCGCGCCTACGTGCTGTGGACTTCGCGGAGCGACACGGCTACATTAAAGGCATCGTAAA
 RAT 91 CGCGCGTCTGCGTGCTGTGGACTTCGCGGAGCGACACGGCTACATTAAAGGCATCGTAAA
 TROUT 67 TGCTAAACTCCGACACATTGACTTTGCTGAACGTCATGGTTACATCAAGGGAATTGTGAA
 FROG 136 TGCTAAGCTTCGGGCTATCGACTTTGCTGAAAAGAAATGGCTACATCAAGGGTATTGTGAA
 DANIO 1 -----
 301 301.....310.....320.....330.....340.....350.....

COW 211 -----CACCCCGCACCCGTGGCCAGCAGTTCCTCT-----TTGCCTTA-----
 FLY 350 GGACATCATCCACGATCCCGGCCGTGGCGCTCCTCTGGCCGTGTCCTACTTCCGCGACCC
 CELEGANS 138 GGACATCATCCACGATCCAGGAAGAGGAGCTCCACTTGCCATCATCGCTTCCGCGACCC
 FLOWER 138 GGAGATCATCCACGATCCTGTCGTGGTGCTCCTCTTGCTCGTGTCACTTCCGTCATCC
 SOY 182 TGACGTATCCACGATCCTGGCCGTGGCGCGCCTCTCGCTAAGGTCGCCTTCCGCCACCC
 HOMO 249 GGACATCATCCACGATCCGGGCGCGCGCCCTCGCCAAGGTGGTCTTCCGGGATCC
 PIG 1 -----
 MOUSE 159 GGACATCATTATGACCCTGGCCGCGCGCTCCCTCGCAAAGTCGTCTTTCGGGATCC
 RAT 151 GGACATCATTATGACCCTGGCCGCGCGCTCCCTCGCAAAGTAGTCTTTCGTGATCC
 TROUT 127 GGATATCATCCATGACCCAGGCCGTGGTGCTCCCTGGCAAAGTGGCTTCCGTGACCC
 FROG 196 AGACATTAATCCATGATCCAGGCCGTGGTGCTCCTCTTGCCAAGGTTGCATTCGGTGATCC
 DANIO 1 -----CGTGGAGCTCCTCTGGCTAAGGTGATGTTTCGTGACCC
 361 361.....370.....380.....390.....400.....410.....

COW 249 -TACTTGTGGTAGGCACGGCCGGCCTTCAGAATGGGCTGTCAATGCGGCCACCTCCAGC
 FLY 410 CTACCGCTACAAGATCCGCAAG-----GAGCTGTTCA---TCGCCCCCGAGGGC
 CELEGANS 198 ATACAAGTACAAGACCGTGAAG-----ACTACCGTCG---TCGCCCGCAAGGA
 FLOWER 198 TTCCGTTTCAAGAAACAAAAG-----GAGCTCTTCG---TCGCCCGCAAGGT
 SOY 242 GTCCGCTACAAGAAGCAGAAC-----GAGCTCTTCA---TCGCCCGCAGGGT
 HOMO 309 GTATCGGTTAAGAAGCGGACG-----GAGCTGTTCA---TTGCCCGCCGAGGGC
 PIG 1 -----GAGCTGTTCA---TCGCCCGCCGAGGGG
 MOUSE 219 CTACCGATTCAAGAAGCGGACA-----GAGCTGTTCA---TCGCCAGCGGAGGGG
 RAT 211 CTATCGATTCAAGAAGCGGACA-----GAGCTGTTCA---TCGCCCGCAGAGGGA
 TROUT 187 CTACCGATTCAAGAAGCGGACG-----GAGCTGTTTA---TTGCTGCAGAGGGC
 FROG 256 TTACAGGTTTAAAAGAGGACA-----GAGTTGTTTCG---TTGCTAGCTGAGGGA
 DANIO 39 TTACCGCTTCAAGAAGAGGACC-----GAGCTGTTCA---TCGCCAGCTGAAGGC
 421 421.....430.....440.....450.....460.....470.....

COW 308 CACCACACCGACCAAGCT---CTGTTGGCAGAGG-----AGATGACCTTTTGT
 FLY 456 ATGCACACCGGCCAGTTTCGTGTACTGCGGCCGCAAGGCCACCCTTCAGATCGGCAACGTG
 CELEGANS 244 ATGCACACTGGACAATTCATCCATTGTTGGAGCTAAGGCTCAAATCCAAATCGGAAACATC
 FLOWER 244 ATGTACACCGGTCAAGTCTTGTACTGCGGTAAGAAAGCTACTCTCGTCTGTTGAAATGTT
 SOY 288 CTCTACACCGGCCAGTTTCATCTACTGCGGCAAGAAGGCCACCCTCGTTGTGCGCAATGTG
 HOMO 355 ATTCACACGGGCCAGTTTGTGTATTGCGGCAAGAAGGCCAGCTCAACATGGCAATGTG
 PIG 25 ATCCACACTGGCCAGTTTCGTGTACTGTTGGCAAGAAGGCCAGCTCAACATCGGCAATGTG
 MOUSE 265 ATCCACACTGGACAGTTTCGTGTACTGCGGCAAGAAGGCCAGCTGAATATCGGCAATGTG
 RAT 257 ATCCACACTGGACAGTTTGTGTACTGCGGCAAGAAGGCCAGCTGAATATGGCAATGTT
 TROUT 233 ATCCACACCGGCCAGTTTCATCTACTGTTGGCAAGAAGCTCAACTGAACATCGGTAATGTC
 FROG 302 ATCCATACCGGACAGTTTGTGTACTGTTGGCAAGAAGCTCAGCTGAACATGGCAATGTA
 DANIO 85 ATCCACACCGGCCAGTTTCATCTACTGCGGCAAGAAGGCCAGCTGAACATGGCAATGTG
 481 481.....490.....500.....510.....520.....530.....

COW 354 GAGCCCGAAGGCAGCTTCACTCGCGTCTTCTTTGTCTCAGGGTGTGGGAGA-----T
 FLY 516 ATGCCCTCAGCCAGATGCCCGAGGGTACCATCATCTGCAACCTGGAGGAGAAGACCGGT
 CELEGANS 304 GTGCCAGTCGGAACCTTCCAGAAGGAACCACCATCTGCAACCTCGAGAACAAAGTCCGGA
 FLOWER 304 CTCCTCTTAGATCTATTCTGAAGGAGCTGTGTCTGCAACCTCGAGCATCACGTCCGT
 SOY 348 TTCCCTCTTCGATCCATTCTGAAGGAGCTGTCTGCAACCTCGAGACCATGTCCGG
 HOMO 415 CTCCTGTGGGCACCATGCCGAGGGTACCAATCGTGTGCTGCTGGAGGAGAAGCCTGGA
 PIG 85 CTCCCGGTGGGCACCATGCCGAGGGCACCATCGTGTGTTGTCTGGAGGAGAAGCCTGGT
 MOUSE 325 TTGCCCGTGGGCACCATGCCGAGGGTACGATCGTGTGTTGTCTGGAGGAGAAGCCTGGG
 RAT 317 TTGCCCGTGGGCACCATGCCGAGGGTACTATCGTGTGTTGTCTGGAGGAGAAGCCTGGG
 TROUT 293 TTGCCCGTGGGCACCATGCCGAGGGTACCATCATCTGCTGTCTGGAGGAGAAGCCTGGT
 FROG 362 CTCCTGTGGGCACCATGCCGAGGGCACCATAGTCTGTTGTGTGGAGGAGAAGCAGGT
 DANIO 145 CTTCCCGTGGGCACCATGCCGAGGGCACCATATTCTGCTTCTGGAGGAGAAGCCTGGA
 541 541.....550.....560.....570.....580.....590.....

COW 407 GACTGTGGCATAGTTTCCAGAGGCTCTTGCCAGCTTGCCTCGGTCAACAGGCTTCTCCTC
FLY 576 GATCGCGGCCGTTTGGCCCGCACCTCTGGCAACTACGCCACCCTGA-----TTGCCCA
CELEGANS 364 GACCGTGGAGTCATCGCCCGTGCCCTCTGGTAACTACGCCACCCTGA-----TCGCCCA
FLOWER 364 GATCGTGGTGTCTCGCTAGAGCTCTGGTGAATTACGCCATTGTTA-----TCGCTCA
SOY 408 GACCGCGGCGTCTTCGCTAGGGCGTCTGGGAGACTACGCCATTGTTA-----TCAGTCA
HOMO 475 GACCGTGGCAAGCTGGCCCGGGCATCAGGGA ACTATGCCACCCTTA-----TCTCCCA
PIG 145 GACCGGGGCAAGCTGGCCAGAGCCTCGGGGA ACTATGCTACCGTCA-----TCTCCCA
MOUSE 385 GACAGGGGCAAGCTGGCCGAGCCTCCGGGA ACTACGCCACAGTCA-----TCTCCCA
RAT 377 GACAGGGGCAAGCTGGCACAGCCTCCGGGA ACTATGCTACAGTCA-----TCTCCCA
TROUT 353 GACAGGGGCAAGCTGGCCAGGGCGTCTGGGAACTACGCCACGCTCA-----TCTCCCA
FROG 422 GATCGTGGCAAACCTGTCAGTGCCTCTGGTAACTATGCCACAGTTA-----TCTCCCA
DANIO 205 GACAGAGGCAAAC-TGGTCTCGCATCCGGAAACTACGCCACCCTTA-----TTTCCCA
601 601.....610.....620.....630.....640.....650.....

COW 467 CAGACAACACACGATGGTGCCTCAGGCATGGTGCCCA CCGGGAGCA-----
FLY 629 CAACCAGGACACCAAGAAGACGCGTGTCAAGCTGCCATCCGGCGCCAAGAAGGTCGTGCC
CELEGANS 417 CAACCAGACACCAAGAAGACACGTATTCGCCCTCCATCCGGAGCCCAAGAAGGTCGTTC
FLOWER 417 CAACCCTGACAGCGACACTACTAGGATTAAGTTGCCATCCGGTTCAAGAAGATTGTCC
SOY 461 CAACCCTGATAATGACACCTTAGGATTAAGCTCCATCTGGTTCAAGAAGATTGTTC
HOMO 528 CAACCCTGAGACCAAGAAGACCGGTGTAAGCTGCCCTCCGGCTCAAGAAGGTTATCTC
PIG 198 CAACCCGAGACAAAGAAGACCCGCTGAAGCTGCCCTCAGGCTCAAGAAGGTCATCTC
MOUSE 438 CAACCAGAGACCAAGAAGACTCGAGTGAAGCTGCCCTCGGGTCCAAGAAGGTCATTT
RAT 430 CAACCAGAGACCAAGAAGACCCGAGTGAAGCTGCCCTCAGGTTCCAAGAAGGTCATTT
TROUT 406 CAACCAGACACCAAGAAGTCCAGGTCGAAGCTGCCCTCTGGCTCAAGAAGGTCATCGC
FROG 475 TAATCCTGAACAAGAAGAAACTAGAGTAAAGTTGCCCTCTGGATCCAAGAAGGTCATCTC
DANIO 257 CAATCCCGAGACCAAGAAGTCCAGAGTGAAGCTTCCGCTCTGGATCCAAGAAGGTCATCTC
661 661.....670.....680.....690.....700.....710.....

COW 514 -----CGTTGCCGATGTTGA-----
FLY 689 CTCGGCCAACCGCGCCATGGTTGGCATCGTCCCGCGCGCGGTCTGATCGACAAGCCCAT
CELEGANS 477 ATCGGTCAACCGCGCCATGATTGGACTCGTCCGCTGGAGGAGGACGTACCGACAAGCCACT
FLOWER 477 AAGTGGATGCAAGGCTATGATTGGACAAGTTGCTGGAGGTGGAAGAAGTGAAGCCGAT
SOY 521 AAGTGAATGTAGGGCCATGATTGGTCAAGTTGCAAGGTGAGGGGAACTGAGAAGCCTCT
HOMO 588 CTCAGCCAACAGAGCTGTGGTTGGTGTGGTGGCTGGAGGTGGCCGAATTGACAAACCCAT
PIG 258 CTCGGCCAACAGGGCTGTGGTTCGGTGTGGTGGCTGGAGGTGGCCGATTGACAAGCCCAT
MOUSE 498 CTCTGCCAACAGAGCCGTTGTTGGTGTGGTGGCTGGTGGGGGCAGAATTGACAAGCCTAT
RAT 490 CTCTGCTAACCGAGCTGTTGTTGGTGTGGTGGCTGGCGGGGCAGAATTGACAAGCCTAT
TROUT 466 CTCGCAACAGAGCCGTTGTTGGTGTGGTGGCTGGAGGTGGACGTATTGACAAGCCCAT
FROG 535 ATCTGCAACAGAGCTATTGTTGGGTTGTTGCTGGAGGTGGTCTGATTGACAAACCCAT
DANIO 317 TTCTGCAACAGAGCCGTTGTTGGTGTGGTGGCTGGTGGTGGTGGTCTGATTGACAAACCCAT
721 721.....730.....740.....750.....760.....770.....

COW 529 -----GCTGGGCTTCTTGCCGCA-GTACA---CAA-----CTGGCC-----
FLY 749 CCTGAAGGCCGGTCTGTGCTACCACAAGTACAAGGTGAAGCGCAACAGCTGGCCTAAGGT
CELEGANS 537 TCTCAAGGCTGGACGCTCATACCACAAGTACAAGGCCAAGAGAAACAGCTGGCCACGTGT
FLOWER 537 GCTCAAGGCAGGAAACGCGTACCACAAGTACCGTGTGAAGAGGA ACTCATGGCCTAAGGT
SOY 581 TCTCAAGGCTGGAAATGCTTACCACAAGTTCAGAGTGAAGAGGAATTGCTGGCCCAAGGT
HOMO 648 CTTGAAGGCTGGCCGGGCGTACCACA AATATAAGGCCAAGAGGA ACTGCTGGCCACGAGT
PIG 318 TCTGAAGGCCGGCCGCTGCTTACCACAAGTATAAGGCCAAGAGGAATTGCTGGCCACGCGT
MOUSE 558 CTTAAAGGCTGGCCGCTTACCACAAGTACAAGGCCAAGAGGA ACTGCTGGCCACGCTGT
RAT 550 CTTAAAGGCTGGCCGCTGCTTACCATAAGTACAAGGCCAAGAGGA ACTGCTGGCCACGCTGT
TROUT 526 CCTGAAGGCCGGTCTGTGCTTACCACAAGTACAAGGCCAAGAGGA ACTCATGGCCACGCTGT
FROG 595 CCTGAAGGCCAGGTCGTGCTTACCATAAATACAAGGCCAAGAGGA ACTGCTGGCCACGCTGT
DANIO 377 CCTGAAGGCCAGGACGTGCTTATCACAAATACAAGGCCAAGAGGA ACTGCTGGCCCTGCTGT
781 781.....790.....800.....810.....820.....830.....

COW 563 -----GGTGTGG--ATG-----
FLY 809 GCGTGGTGTGGCCATGAACCCCGTGGAGCATCCTCACGGTGGTGGTAACCATCAGCACAT
CELEGANS 597 CAGAGGAGTTGCCATGAATCCAGTCAACATCCCACGGAGGAGGTAACCATCAACATAT
FLOWER 597 TCGTGGTGTGGCTATGAATCCAGTGGAGCATCCTCATGGAGGAGGTAACCATCAGCACAT
SOY 641 TCGTGGTGTGCTATGAACCCCTGTTGAGCATCCCCACGGAGGAGGTAATCACCAGCATAT
HOMO 708 ACGGGGTGTGGCCATGAATCCTGTGGAGCATCCTTTTGGAGGTGGCAACCACAGCACAT
PIG 378 GCGGGGTGTGGCCATGAACCCCTGTGGAGCATCCCTTTGGAGGTGGCAACCACAGCACAT
MOUSE 618 GCGGGGTGTGGCCATGAATCCTGTGGAGCATCCCTTTGGAGGTGGTAACCACAGCACAT
RAT 610 GCGGGGTGTGGCCATGAATCCTGTGGAGCATCCCTTTGGCGGTGGTAACCACAGCACAT
TROUT 586 CCGTGGTGTGGCCATGAACCCCTGTTGAGCATCCCTTCGGTGGTGGTAACCACAGCATAT
FROG 655 CCGTGGTGTGGCTATGAATCCTGTTGAACATCCCTTCGGTGGTGGTAACCACCAACCAT
DANIO 437 CCGTGGTGTGGCTATGAACCCCTGTTGAGCATCCTTCGGTGGTGGTAACCATCAGCACAT
841 841.....850.....860.....870.....880.....890.....

COW 573 -----CCCTCAGCAGCGATGAAC-----AGCTC
FLY 869 TGGTAAGGCCTCCACCGTCAAGCGAGGCACATCCGCCGGTCGCAAGGTCGGTCTCATCGC
CELEGANS 657 TGGACATCCATCCACCGTCAAGAGAGACGCCAGTGCCGGAAAGAAGGTTGGACTTATCGC
FLOWER 657 TGGTCACGCCAGTACTGTTAGGCGTGATGCACCTCCTGGACAGAAGGTTGGTCTTATTGC
SOY 701 TGGTCACGCAAGTACTGTCAGCCGTGATGCTCCTCCTGGACAGAAGGTTGGTCTCATTGC
HOMO 768 CGGCAAGCCCTCCACCATCCGCAGAGATGCCCTGCTGGCCGCAAAGTGGGTCTCATTGC
PIG 438 TGGCAAACCCTCTACCATCCGCAGAGATGCCCTGCTGGCCGGAAAGTGGGTCTCATTGC
MOUSE 678 TGGCAAACCCTCCACCATCCGAAGAGATGCCCTGCTGGCCGCAAAGTGGGTCTCATTGC
RAT 670 TGGCAAGCCTTCCACTATCCGAAGAGATGCCCCAGCTGGGCGCAAAGTGGGTCTCATTGC
TROUT 646 TGGAAAACCCTCAACTATCAGGAGGGACGCACCTGCTGGTCGCAAGGTCGGTCTCATTGC
FROG 715 TGGTAAGCCCTCAACCATCAGGAGAGATGCCCCAGCTGGTCGCAAGGTTGGTCTTATTGC
DANIO 497 TGGTAAACCCTCAACCATCAGGAGAGACGCGCCTGCTGGACGC-----
901 901.....910.....920.....930.....940.....950.....

COW 596 TGTCGCTTCTTAAACGGTACGGATCCCGGAAAACCACTTTGGCAAGG-----
FLY 929 TGCCCGT-----CGTACCGGTAGGATCCGTGGTGGCAAGGGCGACAG-----CAAGGAC
CELEGANS 717 CGCCCGC-----CGTACCGGAAGAATTCCGCGGAGGAAAGCCAGTCAAGTTCACCAAGGAG
FLOWER 717 TGCAAGG-----AGGACTGGTCG-----TCTCAGAGGTC
SOY 761 TGCTAGG-----AGGACTGGTCG-----TCTTAGAGGAC
HOMO 828 TGCCCGC-----CGGACTGGACGCTCTCCGGGGAACCAAGACTG-----
PIG 498 TGTCGC-----CGGACAGGCGTCTCCGAGGAACCAAGACTG-----
MOUSE 738 TGCCCGC-----CGGACTGGACGGCTGCGTGGAAACCAAACTG-----
RAT 730 TGCCCGC-----CGGACTGGACGGCTACGTGGAAACCAAACTG-----
TROUT 706 TGCCCGT-----CGTACAGGCAGACTGCGTGGAAACAAAGACCG-----
FROG 775 TGTCGT-----CGTACTGGTCGTCTGCGCGGTACAAAGACTG-----
DANIO 540 -----
961 961.....970.....980.....990.....1000.....1010.....

COW 645 -----
FLY 978 AAGTAAGCTCTGGCTGCAGCAGGATCCGGCGTGGCGCAGGTTCCGCCTGAGATCTGGGT
CELEGANS 772 GAGAACG-----
FLOWER 746 AA-----GCTGCTGCT-----
SOY 790 AA-----GCTGCTGCA-----
HOMO 866 -----TGCAGGA-----GAAAGAGAACTAG--
PIG 536 -----TGCAGGA-----GAAAGAGAACTAG--
MOUSE 776 -----TACAGGA-----GAAGGAGAACTAG--
RAT 768 -----TACAGGA-----GAAGGAGAACTAG--
TROUT 744 -----TCTCGGA-----GAAAGAGAAT-----
FROG 813 -----TGCAGGA-----AAAGGAGAAC-----
DANIO 540 -----
1021 1021.....1030.....1040.....1050.....1060.....1070.....

COW 645 -----GGCGCTCCGCGGCCCGG-GTCGTGGATGA-----TGTCCTTCAG-----
FLY 1038 AGTGGTCGTGCTCTGCTGTGCGGCGTCTGGAAGAAATGCTATTCTACATGGATAATCT
CELEGANS 779 -----
FLOWER 757 -----
SOY 801 -----
HOMO 886 TGCTGAGGGCCTC-----
PIG 556 GGGCTGGGGGCTC-----
MOUSE 796 AGTTCAGGAGCT-----
RAT 788 AGTTCAGGAGCT-----
TROUT 761 -----
FROG 830 -----
DANIO 540 -----
1081 1081.....1090.....1100.....1110.....1120.....1130.....

COW 684 --ATGCCCTTGATATA-----TCCGTGT
FLY 1098 GTATGTTCTAGGCATACGCTTGACACGGCAGAATAAAACGTATTTGTA-AAACTATACTT
CELEGANS 779 -----
FLOWER 757 -----TCAGCTGCCAAGGCAGACTAGAGTTAAAAGAGATAAACTTTGTTT
SOY 801 -----ACTGCTGCCAAGGCTGA-TAAGGCTTAAAGAG--AACGTTGTTA
HOMO 899 -----AATAAAGTT-----
PIG 569 -----AATAAAGCT-----
MOUSE 808 -----AATAAAGTA-----
RAT 800 -----AATAAAGTA-----
TROUT 761 -----
FROG 830 -----TAAAAC-----
DANIO 540 -----
1141 1141.....1150.....1160.....1170.....1180.....1190.....

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COW      705  CGCTCGGC-----GA
FLY     1157  CGTTTGCATTTAAAGTTTTTAAGATTTTAGTTATTAGCTTTTGTGGAT-----
CELEGANS 779  -----
FLOWER   802  CTCTTGTTTTCTATGTTT-CAAGTTTGTGCTGTGTTTCCTTTGAACCTCATTCTGA
SOY     842  GGGTTATTATATTTGATTGCAAGTTTTTCAGTTTTGTTTTTCTTT-----TTCTGA
HOMO    908  -----TGTGTTTATG-----
PIG     578  -----TGCCTTT-----
MOUSE   817  -----CGTCCTTTGG-----
RAT     809  -----TGTGCTTTGG-----
TROUT   761  -----
FROG    837  -----TGTCTATCTG-----
DANIO   540  -----
1201 1201.....1210.....1220.....1230.....1240.....1250.....

COW      715  AATCCACGG-----CGCGTAGGCGCGCGGCGC-----
FLY     1207  -----TTATTATGCTGATTTATTAGGT-----AAATACTTATGTTA
CELEGANS 779  -----
FLOWER   861  AATCCTAAAAGATTTTTATGATAAACCTT-----CTCTCTTCTCGAAAAGCTTATGTTA
SOY     894  TA-----GTTGTTTGTAAACTATTTGGGGCACCTTCTTCAGAACCATTTTCTTC
HOMO    918  ---CCAAAAAAA-----AAAAAAA-----
PIG     587  -----
MOUSE   827  ---C-----
RAT     819  ---C-----
TROUT   761  -----AGAT-----
FROG    847  ---C---TAAT-----TACAAAAT-----
DANIO   540  -----
1261 1261.....1270.....1280.....1290.....1300.....1310.....

COW      742  -----CTTT-----
FLY     1243  TCT-----GCAAATTCTT-----GTTTTC-----AAA
CELEGANS 779  -----TC-----TAA
FLOWER   916  TTCACATTGCATACTCTCAATACGC-----AAA
SOY     945  CCAACATATGGAGTTTTCAATAGACGGTCTTCTATAAAAAAAAAAAAAAAAAAAAA
HOMO    935  -----AAAAAAAA-----AAAAAAAAAAAAAAAAAAAA
PIG     587  -----CACAACCAAAAAAAAAAAAA
MOUSE   828  -----TAAAAAAAAAAAA
RAT     820  -----T-----
TROUT   765  -----GTCTTGACAA-----TAAATATGTTCCCATGAAAAAA
FROG    860  -----AAATTGTAAA-----AAACAAAAAAAAAAAAAAAAAAAA
DANIO   540  -----AA-----
1321 1321.....1330.....1340.....1350.....1360.....1370...

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