

PIG 1 -----
 TROUT 1 CCNT-----
 HOMO 1 GAT---T-----CGCTG---
 COW 1 -----
 MOUSE 1 C-----TCAC-----CCCAGGG-----
 RAT 1 CAT---TTCTCCCTCACAAA---CTGGAGCAACCGGCGAGCCCGGGGCGGGCCCTG---
 FROG 1 CAACCCTTATCGCGCACCAAGACTCGGTACCAAATGT-TACCGTAGGTCCCGCACATACA
 DANIO 1 -----
 FLY 1 -----CAGTGTTGCTTACTTGCCGCTGAAAAA
 CELEGANS 1 -----ATG-----TCGCAAACA
 FLOWER 1 -----ATG-----GC---AACT
 1 1.....10.....20.....30.....40.....50.....

PIG 1 -----GGCAG-----GAACCT-----
 TROUT 5 -----
 HOMO 10 -----
 COW 1 -----
 MOUSE 13 -----TTCGTGG-AGTCC-----CAGCGGCA
 RAT 51 ---TGGCCTCG-GTTTGGTTCGTGG-AGTCC-----CAGCGGCA
 FROG 60 CGCTGATCACGTGATTTTTACGTGCGAGACCAGCGAACTGCAGCTTCCAGACTGGCGGCG
 DANIO 1 -----
 FLY 28 C-----AAGAAATTTACAAGTCATCGACA
 CELEGANS 13 C-----CA-----
 FLOWER 10 C-----C-----
 61 61.....70.....80.....90.....100.....110.....

PIG 12 -----GAAACCATCCTTT-----
 TROUT 5 -----
 HOMO 10 -----CTCCGCAGCACGGCCGGAGCTG-----GTCGGGTCAAGAGTCGGGATTTGTGGG
 COW 1 -----
 MOUSE 33 GATTCGCTCGGAGACGCGGACAGAACCCTTCTGTGCGCTCAGGAATCG-----CGG
 RAT 85 GATTCGCTCGGCAACGCGGACAGGGCCAATTCTGTGCGCTCAGGAATCG-----CGG
 FROG 120 GAGTGTTTTTCAAGAGCCACCGGAACGGT-----
 DANIO 1 -----
 FLY 52 GAGTGTTTGCCAAAAAGATCGGCAATAAT-----
 CELEGANS 16 -----CCGCCAAAAGA-CGGAAAAA-----
 FLOWER 12 -----TATGG-TTGAAGATA-----
 121 121.....130.....140.....150.....160.....170.....

PIG 25 -----
 TROUT 5 -----
 HOMO 59 GAGAGGTTTTCCACTGGTCAAGAGAAGGCTTTAAGAAAGACGGTATTAATCTCCCGTTGC
 COW 1 -----
 MOUSE 85 GTGAAGTTCTCCACGGGTGGAGAGAAGACGTTGAGAAAGGCTGCGCTGGGCTCCCTCAGG
 RAT 137 GTGAAGTTCCGACCGGTGGAGAGAAGACGTTGAGAAAAGCCGCGCTGGGCTCCCTCAGG
 FROG 150 --GCATTTAATCG-----TGAAGTTCCTTT--GCTT-----
 DANIO 1 -----
 FLY 82 -AGCATTTAACA-----AAGAATTACATTCAGCAA-----
 CELEGANS 36 -----
 FLOWER 26 -----
 181 181.....190.....200.....210.....220.....230.....

PIG 25 -----ATTACGAGTCTTGACCA-----
 TROUT 5 -----
 HOMO 119 GGCTCCCGCCTGGTCCCATCTTCTGCCGCTCCTCCAGGAAATGAATCTGCTGCCGAATA
 COW 1 -----
 MOUSE 145 GGCTCGTGCGCACTCCAGTTTTCGGCCTTTCATGCAGGAAATGAATCTGCTGCCGACGC
 RAT 197 GGCTCGTGCGCACTCCAGTTTTCGGCCTTTCATGCAGGAAATGAATCTGCTGCCGACGC
 FROG 177 -----CCGCAGCTTAAAGTGCGGACTA-AC
 DANIO 1 -----
 FLY 112 -----CGGCTAATCAACAATCGTATTAGAC
 CELEGANS 36 -----
 FLOWER 26 -----
 241 241.....250.....260.....270.....280.....290.....

PIG 42 -----
TROUT 5 -----
HOMO 179 TTGAGAGTCCAGTGA
CTCGGCAGGAGAAGA--TGGCGACCGTGTGGGATGAGGCCGAGCA
COW 1 -----
MOUSE 205 CCGAGAGTCCAGTGA
CTCGGCAGGAGAAGA--TGGCGACCGTGTGGGATGAAGCTGAGCA
RAT 257 CCGAGAGTCCAGTGA
CTCGGCAGGAGAAGA--TGGCGACCGTGTGGGATGAAGCTGAGCA
FROG 201 CCG---GCCTG---TCTGAAGCAATAAACATGGCGTCTATATGGGATGAAACGGAGGC
DANIO 1 -----GTTTGGGATGA---GGTGG
FLY 137 ATG---GCTCA---GACTCTGGAGGATAA-----GTCAATCTGGGAGGA---CGGGGA
CELEGANS 36 -----CCCA--G-----A-----GGCAATG-----GA---GGTGG
FLOWER 26 -----C-----GTCAAGC-----TT---CGAAGA
301 301.....310.....320.....330.....340.....350.....

PIG 42 -----GCAACAGACCAGACAGC-----
TROUT 5 -----
HOMO 237 AGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCACACG
COW 1 -----
MOUSE 263 AGATGGCATTGGGGAGGAGGTGCTCAAGATGTCCACGGAAGAGATTGTCCAGCGCACACG
RAT 315 AGATGGCATTGGGGAGGAGGTGCTCAAGATGTCCACAGAAGAGATCGTCCAGCGCACACG
FROG 253 AGATGGGTGGGAGAAGATGTCCTCAAATGTCCACTGAAGAGATTATCCAGAGAACTCG
DANIO 18 GGATGGAATCGGAGAGGAAGTCTTAAGATGTCCACTGAAGAGATTGTTTCAGAGGACTCG
FLY 181 GGAGTCCCTGGGCGAGGAGGTGATGCGTATGTCCACCGATGAAATTTGTGAGCAGGACTCG
CELEGANS 57 GGATGCTATTGATGAGGAGATTCTGAAAATGTGCGACGGAAGATCTCAAAAGCCGTACCCA
FLOWER 42 GGAT-----CAGCTTGCTTCATGTCCACCGAAGATATCACTAGAGCTACTCG
361 361.....370.....380.....390.....400.....410.....

PIG 59 -----AGG
TROUT 5 -----
HOMO 297 GCTGCTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTACCCATGAG--
COW 1 -----
MOUSE 323 GTTGTTAGACAGCGAGATCAAGATCATGAAGAGTGAAGTTTTGCGAGTACCCATGAA--
RAT 375 GCTGCTAGACAGCGAGATCAAGATCATGAAGAGTGAAGTGTGCGAGTACCCACGAA--
FROG 313 GCTGCTGGACAGTGAAATCAAATCATGAAGAGTGAAGTTTTGAGAGTTACGCATGAG--
DANIO 78 TCTTTTGGACAGTGAGATTAAGATCATGAAGAGTGAAGTTCTGCGTGTACACACGAG--
FLY 241 CCTGATGGACAACGAGATCAAGATCATGAAGAGCGAAGTGATACGCATAACGCACGA---
CELEGANS 117 CTTGTTGGACAACGAGATTTCGATTATGAGAAGTGAAGTTCAACGTATCAATC-----
FLOWER 90 TCTTCTCGACAACGAGATTTCGAATTCTCAAGGAAGACGCGCAAAGAACAATCTAGAATG
421 421.....430.....440.....450.....460.....470.....

PIG 62 TGTGGCGGCGAGCCTAGGCGTAG-----
TROUT 5 -----
HOMO 355 -----CTCCAAGCCATGA--AGGACAAGATAAAAGAGAACAGTGAGAAAATCAAAGTGAA
COW 1 -----
MOUSE 381 -----CTCCAAGCCATGA--AAGACAAAATCAAAGAGAACAGTGAGAAAATCAAAGTGAA
RAT 433 -----CTCCAAGCCATGA--AAGACAAAATCAAAGAGAACAGTGAGAAAATCAAAGTGAA
FROG 371 -----CTGCAAGCAATGA--GAGACAAAATTAAGAAAAACAGTGAAAAAATCAAAGTGAA
DANIO 136 -----CTGCAGGCGATGA--AGGACAAAATCAAGGAGAACACAGAGAAAATCAAAGTGAA
FLY 298 -GATTTCAGG-----CGAAAATGAGAAGATCAAGGACAACACCGAAAAGATCAAGGTCAA
CELEGANS 170 --ATTCTGCAACCACTCTCAAAGAACGGATCAAGGAGAATACTGAACGTATCAAAGTTAA
FLOWER 150 TGATT-----CTTACAAGGAGAAGATTAAGGAGAATCAGGAGAAGATTAACCTCAA
481 481.....490.....500.....510.....520.....530.....

PIG 85 -----TACTGCAGGTTGGCCTT-----
TROUT 5 -----
HOMO 408 CAAGACCCCTGCCGTACCTTGTCTCCAACGTCATCGAGCTCCTGGATGTTGATCCTAATGA
COW 1 -----
MOUSE 434 CAAAACCCCTGCCGTACCTTGTCTCCAATGTCATCGAGTTGCTGGACGTTGACCCCAATGA
RAT 486 CAACACCCCTCCCATACCTAGTCTCCAACGTTATTGAGTTGCTGGATGTTGACCCCAATGA
FROG 424 TAAAACCCCTCCCGTACCTGGTGTCCAATGTCATAGAGCTCCTGGATGTTGATCCTAATGA
DANIO 189 CAAGACTCTGCCCTACCTCGTCTCAAATGTCATAGAGCTGCTGGATGTAGATCCTAATGA
FLY 352 CAAGACTCTGCCCTACCTGGTGTCCAATGTAATAGAGCTGCTGGATGTGGATCC-----
CELEGANS 228 CAAAACCTCTCCGTA
CTTGGTGTCCAACGTTGTCGA
ACTTCTTGA-----TCT-----
FLOWER 201 CAAGCAGCTGCCTACTTGGTTGGCAACATTTGTCGAGATTTTGGAGATGAATCC-----
541 541.....550.....560.....570.....580.....590.....

PIG 102 -----
TROUT 5 -----
HOMO 468 CCAAGAGGAGGATGGT-----GCCAATATTGACCTGGACTCCAGAGGAA
COW 1 -----
MOUSE 494 CCAGGAGGAGGATGGT-----GCCAACATTGACCTGGACTCTCAGAGGAA
RAT 546 CCAGGAGGAGGATGGT-----GCCAATATTGACCTGGACTCGCAGAGGAA
FROG 484 TCAGGAAGAGGATG-----GAGCCAACATTGATTTAGACTCTCAGAGAAA
DANIO 249 CCAAGAGGAGGATG-----GAGCCAACATTGATCTGGACTCTCAGAGGAA
FLY 406 -----ACAGGAGGAG---GAGGACGACGGCTCCGTCACCGTTCTGGACAACAGCGAAA
CELEGANS 276 -----CGAGGATAATACAGAAGAAGAAGGCGCAAATGTTGATCTCGATGCCCAA---AA
FLOWER 255 -----AGAAGATGATGCTGAGGAAGATGGTGCAAATATTGATCTTGACTCGCAACGGAA
601 601.....610.....620.....630.....640.....650.....

PIG 102 -----CTTCTT-----
TROUT 5 -----
HOMO 513 GGGCAAGTGTGCTGTGATCAAAACCTCTACACGACAGACGTA**CTTCTT**CTCTGTGATTGG
COW 1 -----
MOUSE 539 GGGCAAGTGTGCGGTGATCAAAACTTCTACCCGACAGACATA**CTTCTT**GCCAGTGATTGG
RAT 591 GGGCAAGTGTGCAGTGATCAAAACTTCTACCCGACAAACGTA**CTTCTT**GCCAGTGATTGG
FROG 529 GGGAAAGTGTGCTGTGATCAAAACCTCCACGACAGACCTA**CTTCTT**GCCAGTCATTGG
DANIO 294 GGGCAAGTGTGCTGTGATCAAAACCTCCACGACGACAGAT**TTCTT**GCCTGTGATTGG
FLY 457 GGGCAAGTGTGCGCGTCA**CAAAACATCCACTCGACAGGCGTATTTCTT**GCCCGTCATCGG
CELEGANS 327 AACCAAGTGTGCGAGTCATTAAGACTTCCACTCGTGCCACATA**TTCTT**TACCAGTTGTTGG
FLOWER 309 AGGAAAATGTTGTTGTTGAAAACGTCTACACGGCAGACCAT**TTCTT**TACCAGTTGTTGG
661 661.....670.....680.....690.....700.....710.....

PIG 108 -----
TROUT 5 -----
HOMO 573 GTTGGTGGATGCTGAAAAGCTAAAGCCAGGAGACCTGGTGGGTGTGAACAAAGACTCCTA
COW 1 -----CTCCTA
MOUSE 599 GTTGGTGGATGCAGAAAAGCTGAAGCCAGGAGACCTGGTGGGTGTGAACAAAGACTCCTA
RAT 651 GTTGGTAGATGCCGAAAAGCTGAAGCCGGGAGACCTGGTGGGTGTGAACAAAGACTCCTA
FROG 589 TTTAGTCGATGCAGAGAAACTAAAGCCTGGAGATCTTGTGGGAGTTAACAAAGATCTTA
DANIO 354 TTTGGTGGATGCTGAGAAAAGCTGAAGCCAGGAGATCTGGTGGGTGTGAATAAGGACTCCTA
FLY 517 CCTGGTTGATGCCGAGAAAAGCTGAAGCCAGGTGATCTGGTGGGAGTCAACAAAGACTCCTA
CELEGANS 387 ACTTGTGATCCAGATGAGTTGAAGCCAGGAGATCTCGTTGGTGTCAATAAGGATTCATA
FLOWER 369 ACTCGTGGATCCTGATAGTTGAAAACCTGGTGACTTGGTTGGAGTTAACAAAGATAGCTA
721 721.....730.....740.....750.....760.....770.....

PIG 108 -----
TROUT 5 -----
HOMO 633 TCTGATCCTGGAGACGCTGCCACAGAGTATGACTCGCGGGTGAAGGCCATGGAGGTAGA
COW 7 TCTGATCCTGGAGACCTGCCACCGAGTACGACTCGCGGGTGAAGGCCATGGAGGTGA
MOUSE 659 TCTGATCCTGGAGACCTGCCACTGATTATGACTCTCGGGTGAAGGCCATGGAGGTGA
RAT 711 TCTGATCCTGGAGACCTGCCACCGAATATGACTCTCGGGTGAAGGCCATGGAGGTGA
FROG 649 CCTCATTTGGAGACCTTCTACAGAATATGATTCCCGTGTAAAGGCCATGGAAAGTGA
DANIO 414 TCTGATTTGGAGACTCTACCCACCGAGTATGACTCTCGTGTGAAGCAATGGAAAGTGA
FLY 577 TTTGATCCTGGAAACCTGCCGCGAGAGTATGATGCCCGCGTAAAGGCCATGGAAAGTGA
CELEGANS 447 TTTGATTTGAAAATTACCAGCAGAATATGATTCTCGTGTGAAGGCTATGGAAAGTGA
FLOWER 429 CTTGATTTGGATACCTTGCATCCGAGTATGACTCTAGGGTTAAAGCCATGGAGGTGA
781 781.....790.....800.....810.....820.....830.....

PIG 108 -----AGCCTGGACCTCCAGGATGCCCTCCA
TROUT 5 -----
HOMO 693 CGAGAGGCCACGGAGCAATACAGTGACATTTGGGGTTGGACAAGCAG-----A
COW 67 CGAGAGGCCACGGAGCAATACAGTGACATCGGGGCTGGATAAGCAG-----A
MOUSE 719 CGAGCGGCCACGGAGCAATACAGTGACATCGGGGCTGGACAAGCAG-----A
RAT 771 CGAGCGGCCACAGAGCAATACAGTGACATTTGGCGGCTGGACAAGCAG-----A
FROG 709 CGAAAGGCCACCGAGCAATACAGTGACATAGGCGGCTGGATAAACAG-----A
DANIO 474 TGAGAGGCCACAGAGCAGTACAGTGACATCGGTGGCTTGACAAACAA-----A
FLY 637 CGAGCGCACTACAGAGCAGTACTCCGCATTTGGAGGTTGGACAAGCAG-----A
CELEGANS 507 CGAACGGCCAACGAACAATATTCGATATCGGAGGATGTGACAAGCAA-----A
FLOWER 489 TGA AAAA CCAACTGAAGATACAATGACATTTGGAGGACTAGAGAAGCAG-----A
841 841.....850.....860.....870.....880.....890.....

PIG 134 TG TAGT CCTCGTGGGTGAGCTCTGTGGCGCCCTGCGCAGC-----GCGATCA
TROUT 5 -----ACT
HOMO 743 TCCAGGAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGA
COW 117 TTCAGGAGCTAGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGA
MOUSE 769 TCCAGGAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGA
RAT 821 TCCAGGAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGA
FROG 759 TCCAGGAGCTTGTGAGGCCATTGTACTGCCTATGAACCACAAGGAGAAGTTTGAGA
DANIO 524 TTCAGGAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGA
FLY 687 TACAGGAGCTCATCGAGGCAGTGGTCTGCCCATGACGCACAAGGAGAAGTTCAAAAACC
CELEGANS 557 TTCAGGAGCTGATTGAAGCTGTTGTGCTTCCAATGACTCACAAGGATCGATTTGTTAATT
FLOWER 539 TCCAAGAGCTTGTAGAGGCAATTGTGCTTCCCATGACGCACAAGGAACGTTTTGAGAAGC
901 901.....910.....920.....930.....940.....950.....

PIG 182 TG-----CCCGCCTCCACACACACAGCCTTGCACCTGGGCCCGTTGAAGTCATCTGTACA
TROUT 8 GGGNTA-----
HOMO 803 TGGGGATCCAACCTCCAAAAGGGGTGCTGATGTATGGGCCCCAGGGA-----
COW 177 TAGGGATCCAGCCCCAAAAGGGCGTGCTGATGTACGGGCCCTCCAGGTA-----
MOUSE 829 TGGGTATCCAGCCCCAAAAGGAGTGCTGATGTATGGGCCCGCTGGAA-----
RAT 881 TGGGTATCCAGCCCCAAAAGGAGTGCTGATGTATGGGCCCGCTGGTA-----
FROG 819 TAGGATCCAGCCCCAAAAGGTGCTCTATGTACGGGCCCGCTGGAA-----
DANIO 584 TGGGCATCCAGCCCAAAAAGGAGTCTTATGTACGGACCACCAGGCA-----
FLY 747 TTGGCATCACCCACCAAAAGGTGCTTTTTGTACGGCCCCCTGGAA-----
CELEGANS 617 TGGGTATTATCTCCAAAAGGGTGTGCTCATGTATGGACCACCAGGAA-----
FLOWER 599 TGGGTGTTCTGCCCAAAAAGGAGTGCTCTTGTATGGTCCCCAGGGA-----
961 961.....970.....980.....990.....1000.....1010.....

PIG 237 GCGGGCCAGCTCCTCGTAGTTCACGTCGGGACTGACGTTTATCTTTGCGGAGTGGATCTG
TROUT 14 -----
HOMO 851 -----CGGGGAAGACCCTC
COW 225 -----CAGGGAAGACCCTG
MOUSE 877 -----CAGGGAAGACTCTG
RAT 929 -----CAGGGAAGACTCTC
FROG 867 -----CTGGAAGACTCTG
DANIO 632 -----CAGGAAAGACCCTG
FLY 795 -----CTGGCAAAACATTG
CELEGANS 665 -----CTGGTAAAACGATG
FLOWER 647 -----CTGGTAAAACTTTA
1021 1021.....1030.....1040.....1050.....1060.....1070.....

PIG 297 CATGATTCTGGCCCGGGCCTCC-----
TROUT 14 -----GGGCCTGNGCTGCCAGACCAAGGCCA--CATTTCTCAAGCTGGCT
HOMO 865 -----CTGGCCCGGGCCTGTGCCGACAGACTAAGGCCA--CCTTCTAAAGCTGGCT
COW 239 -----CTGGCCAGGGCCTGTGCTGCGCAGACCAAGGCCA--CCTTCTGAAGCTGGCC
MOUSE 891 -----CTTGCCCGAGCCTGTGCTGCTCAGACCAAGGCCA--CCTTCTGAAGCTGGCA
RAT 943 -----CTCGCCGAGCCTGTGCTGCTCAGACCAAGGCCA--CCTTCTGAAGCTGGCA
FROG 881 -----CTGGCTAGGGCATGTGCAAGCAGACTAAGGCCA--CCTTTCTGAAGCTGGCT
DANIO 646 -----CTGGCCAGAGCCTGTGCAAGCACAAGGCCAANNCTTTTTGAAGTGGCT
FLY 809 -----CTGGCCCGTGCCTGCGCCGCTCAGACAAAGTCCA--CCTTCTCAAGCTGGCA
CELEGANS 679 -----ATGGCCCGTGCCTGCTGCCAAACTAAATCAA--CATTCTGAAGCTCGCA
FLOWER 661 -----ATGGCTCGTGCCTGCGCAGCACAGACCAATGCCA--CCTTCTTAAATGGCA
1081 1081.....1090.....1100.....1110.....1120.....1130.....

PIG 319 -----TCGTTGGGCATCGGGAACCTCAATCTTGCGGTCC-AG
TROUT 58 GGCCACAG-CTGGTCCAGATG-TTCATTGGTGATGGTG---CCAAGCT---TGTCCGAG
HOMO 916 GGCCCCAG-CTGGTGCAGAT-GTTCATTGGAGATGGTG---CCAAGCT---AGTCCG-G
COW 290 GGCCCCAG-CTGGTGCAGAT-GTTCATTGGAGATGGTG---CCAAGCT---AGTCCG-G
MOUSE 942 GGCCCTCAG-CTGGTACAGAT-GTTTATTGGAGATGGCG---CCAAGCT---GGTCCG-T
RAT 994 GGCCCTCAG-CTGGTGCAGAT-GTTTATTGGAGATGGCG---CCAAGCT---GGTCCG-T
FROG 932 GGCCACAG-CTGGTACAGAT-TTTATTGGAGACGGTG---CAAAGCT---TGTGCGAG
DANIO 699 GGCCCTCAANCTGGTCCAGATGGTTTATTGGTGATGGTG---CAAAGCT---GGTCCG-G
FLY 860 GTCCCCAG-TTGGTCAAAAT-GTTCATCGGTGATGGTG---CCAAGCT---GGTCCG-T
CELEGANS 730 GGCCCCAA-CTTGTTCAGAT-GTTCATTGGAGATGGAG---CAAAGCT---TGTCCG-C
FLOWER 712 GGCCCTCAA-TTGGTCCAGAT-GTTCATTGGAGACGGAG---CAAAGCT---TGTCCG-T
1141 1141.....1150.....1160.....1170.....1180.....1190.....

PIG 354 GCGGCCTGAGC-----GGAGAAGGGCAGGGTCCAGGATGTCCAACCCTGTTAGTGG
TROUT 110 -ACGCCTTTGCCCTGGCC-AAGGAGAAGG-----CCTT-----
HOMO 967 GATGCCTTTGCCCTGGCC-AAGGAGAAAG-----CGCCCT-----
COW 341 GACGCCTTTGCCCTGGCC-AAGGAGAAAG-----CGCCGT-----
MOUSE 993 GATGCCTTTGCCCTGGCC-AAGGAGAAGG-----CACCAT-----
RAT 1045 GATGCCTTTGCCCTGGCC-AAGGAGAAGG-----CACCAT-----
FROG 984 -ATGCCTTCTCTCTAGCC-AAGGAGAAAG-----CACCCT-----
DANIO 753 GATGCATTTGCTTTGGCTAAGGAGAAGG-----CTCCT-----
FLY 911 GATGCCTTCGCCTTGCC-AAGGAGAAGG-----CGCTG-----
CELEGANS 781 GATGCCTTTGCTCTTGCT-AAGGAAAGG-----CTCCAG-----
FLOWER 763 GATGCCTTCAACTTGCC-AAAGAGAAG-----CTCCT-----
1201 1201.....1210.....1220.....1230.....1240.....1250.....

PIG 404 CTGCAATCACCTTCACTTGGGTGTTGGGCTGGAATCCATCCAGCTGGTTCAGAAGCTCCA
TROUT 143 ---CCATCATCTTCA-TAG-ATG--A-GCTAGACGCCAT-----
HOMO 1001 ---CTATCATCTTCA-TTG-ATG--AGTTGATGCCAT-----
COW 375 ---CCATCATCTTCA-TAG-ATG--AGCTGACGCCAT-----
MOUSE 1027 ---CTATTATTTTCA-TAG-ACG--AATTGATGCCAT-----
RAT 1079 ---CTATTATCTTTA-TAG-ATG--AGTTGATGCCAT-----
FROG 1017 ---CTATCATTTTCA-TTG-ATG--AAGTT-GATGCTAT-----
DANIO 788 ---CCATCATCTTCA-TTGATG--AGTTTGGATGCTAT-----
FLY 945 ---CCATTATCTTCA-TTG-ACG--AGTTGACGCCAT-----
CELEGANS 815 ---CTATTATTTTCA-TTG-ATG--AGTTGATGCCAT-----
FLOWER 797 ---GCATTATCTTCA-TAG-ATG--AAATCGATGCCAT-----
1261 1261.....1270.....1280.....1290.....1300.....1310.....

PIG 464 GCATCGTCCTCTGCACCTCCGGTCTCCGGCCTTCTCGCTGTCAAAGCGCTTGGT-----
TROUT 174 -----TGGA--ACC-----AAACGCTTTGACAGTG
HOMO 1032 -----CGG--CACC-----AAGCGCTTTGACAGTG
COW 406 -----CGG--CACC-----AAGCGCTTCGACAGTG
MOUSE 1058 -----TGG--TACC-----AAACGCTTCGACAGTG
RAT 1110 -----TGG--CACC-----AAGCGCTTCGACAGTG
FROG 1048 -----TGG-CACAAA-----AAG-GTTTACAG-TG
DANIO 821 -----TGGGCACCAA-----GCGCGTTTACAGGTG
FLY 976 -----TGG--CACC-----AAGCGTTTCGATTCGG
CELEGANS 846 -----TGG--TACG-----AAGCGATTTCGATTCAG
FLOWER 828 -----TGG--TACA-----AAGCGTTTCGA--CAG
1321 1321.....1330.....1340.....1350.....1360.....1370.....

PIG 519 -----ACCA-----A
TROUT 197 AGAAAGCAGGTGACA--GGGAGGTTGAGAGAACTATGCTTGAGCTCCTCAACCAGCTGGA
HOMO 1055 AGAAGGCTGGGGA--CCGGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGA
COW 429 AGAAGGCCGGGGA--CCGGGAGGTGCAGAGGACGATGCTGGAGCTGCTAAACCAGCTGGA
MOUSE 1081 AAAAGGCAGGAGA--CCGAGAGGTGCAGAGGACCATGCTGGAGCTGCTGAACCAGCTGGA
RAT 1133 AAAAGGCAGGGA--CCGAGAGGTGCAGAGGACCATGCTAGAGCTCTGAACCAGATGGA
FROG 1071 AGAAAGCAG--GAGACAGGGAAGTACAAGAACAATGCTTGAGCTTCTTAATCAGCTTGA
DANIO 847 AGGAAG-----
FLY 999 AGAAGGC--CGGTGACCGTGAGGTCCAGCGAACTATGTTGGAGCTTCTTAATCAGCTCGA
CELEGANS 869 AGAAAGCTG--GAGATCGTGAAGTGCACCGTACCATGTTGGAAGTTCTTAATCAACTTGA
FLOWER 849 TGAAGTCAGCGGAGACAGGGAAGTGCAGAGGACTATGTTGGAGTTGCTCAATCAACTTGA
1381 1381.....1390.....1400.....1410.....1420.....1430.....

PIG 524 TGGCATCCAGCTCA-----
TROUT 255 TGGGTTCCAGCCCAACATGCAAGTTAAGGTTATCGCTGCCACGAACAGGGTGGATATCCT
HOMO 1113 TGGCTTCCAGCCCAACACCCAAGTTAAGGTAATTCAGCCACAAACAGGGTGGACATCCT
COW 487 CGGCTTCCAGCCCAACACCCAAGTTAAGGTAATTCAGCCACTAACAGGGTGGACATCCT
MOUSE 1139 CGGCTTTCAGCCCAACACTCAAGTGAAGGTAATTCAGCCACTAACAGGGTGGACATCCT
RAT 1191 TGGCTTCCAGCCCAACACCCAAGTTAAGGTAATTCAGCCACTAACAGGGTGGACATCCT
FROG 1129 TGGATTTTCAGCCCAACACACAAGTCAAGGTGATTGCTGCTACTAATCGTGTAGATATCCT
DANIO 853 -----
FLY 1057 TGGCTTTCAGTTCCACTGCAGATATTAAGGTGATTGCGGCCACCAATCGCGTAGACATTCCT
CELEGANS 927 TGGCTTCCAACCAATGATGATATCAAGGTGATTGCTGCAACGAACCGTATCGATGTGCT
FLOWER 909 CGGATTCAGTAGCGATGAACGTATTAAGGTGATTGCGCTACTAACCGTGCAGATATTCCT
1441 1441.....1450.....1460.....1470.....1480.....1490.....

PIG 538 -----
TROUT 315 AGATCCCGCACTGCTGCGTCTTGGACGTCTGGACCGTAAGATTGAGTTCCCAATGCCTAA
HOMO 1173 GGACCCCGCCCTCCTCCGCTCGGGCCGCCTTGACCGCAAGATAGAGTTCCCGATGCCCAA
COW 547 GGATCCTGCCCTGCTCCGCTCAGGCCGCCTGGACCGCAAGATCGAGTTCCCATGCCCAA
MOUSE 1199 GGATCCAGCCCTGCTGCGCTCAGGCCGCCTAGACCGCAAGATTGAGTTTCCAATGCCCAA
RAT 1251 GGACCCTGCCCTGCTCCGCTCAGGACGCCTAGACCGCAAGATTGAGTTTCCAATGCCCAA
FROG 1189 GGATCCGGCGCTTCTGCGTCTGGGCGGTTAGATCGGAAGATTGAATTCCCATGCCCAA
DANIO 853 -----GCTGGGCGG-----
FLY 1117 GGATCCTGCTCTGCTGCGTCTGGTCTGCTGGATCGTAAGATCGAGTTCCACATCCCAA
CELEGANS 987 CGATCCCGCTCTTCTTCGTTCTGGTCTGCTCGATCGTAAATGAGCTTCCCATCCGAA
FLOWER 969 GGACCCAGCACTCATGCGTCTGGTCTGATTAGACAGAAAGATTGAGTTCCACACCCAAC
1501 1501.....1510.....1520.....1530.....1540.....1550.....

PIG 538 -----TCAATGAAGATGATAGACGGCGCT--
TROUT 375 TGAGGAAGCACGAGCCCGCATCATGCGATTCACTCACGCAAGATGAACGTCAGCCCTGA
HOMO 1233 TGAGGAGGCCCGGGCCAGAATCATGCGATTCACTCCCGAAAGATGAATGTCAGTCTGA
COW 607 CGAGGAGGCCCGGGCCAGAATCATGCGATTCACTCCCGAAGATGAACGTCAGTCTGA
MOUSE 1259 CGAGGAGGCCAGAGCCAGAATCATGCGATTCACTCACGGAAGATGAATGTCAGTCTGA
RAT 1311 TGAGGAGGCCCGAGCCAGAATATGCGATTCACTCACGGAAGATGAACGTCAGTCTGA
FROG 1249 TGAAGAGGCCAGAGCACGTATCATGCGATAATTCCCGTAAGATGAATGTCAGCCCTGA
DANIO 862 -----
FLY 1177 CGAGGAAGCCCGTGCCTGATATGCGATTCACTCGCGTAAATGAACGTTAGCAATGA
CELEGANS 1047 CGAGGATGCCCGTGCAGAAATCATGCGATTCACTCCAGGAAGATGAATGTCAACAAGGA
FLOWER 1029 CGAAGAAGCGAGAGCAAGAATCTTGCAGATTCACTCAAGGAAGATGAATGTCCACCCAGA
1561 1561.....1570.....1580.....1590.....1600.....1610.....

PIG 562 -----
TROUT 435 TGTCAACTACGAGGAGCTGGCCAGGTGCACTGATGATTTCAATGGCGCCAGTGCAAAGC
HOMO 1293 CGTGAACTACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCAGTGCAAAGC
COW 667 CGTGAACTACGAAGAAGCTGGCCCGCTGTACGGATGACTTC-----
MOUSE 1319 TGTGAACTATGAAGAGCTGGCTCGGTGCACTGATGACTTCAATGGAGCCAGTGCAAAGC
RAT 1371 TGTGAACTATGAAGAGCTGGCTCGCTGCACTGATGACTTCAATGGGGCCAGTGCAAAGC
FROG 1309 CGTGAATTACGAGGAGCTTGCTCGTTGTACCGACGATTTCAATGGCGCACAGTGCAAAGC
DANIO 862 -----ACCGA-----
FLY 1237 TGTGAATTTGAGGAATTTGTCGGATCCACGGATGACTTCAACGGCGCCAGTGCAAAGC
CELEGANS 1107 TGTAAACTTTGAAGAAGCTGGCCCGCTGTACCGATGACTTCAACGGAGCACAAATGCAAAGC
FLOWER 1089 CGTCAACTTTGAGGAGCTTGACGATCAACAGATGATTTCAATGGAGCTCAGCTGAAAGC
1621 1621.....1630.....1640.....1650.....1660.....1670.....

PIG 562 -----
TROUT 495 AGTGTGTGTGGAGGCGGGTATGATCGCCCTTCGAGGGGGCAACTGAGCTCAATCATGA
HOMO 1353 TGTGTGTGTGGAGGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCCACGA
COW 707 -----
MOUSE 1379 CGTGTGTGTGGAGGCGGGTATGATCGCATTGCGCAGGGGAGCCACGGAAGCTCACTCATGA
RAT 1431 CGTGTGTGTGGAGGCGGGTATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACTCACGA
FROG 1369 AGTTTTCGTGGAAGCCGGAATGATTGCTCTGCGCAGAGGAGCCACTGAATTAACGCATGA
DANIO 867 -----
FLY 1297 CGTCTGTGTGGAAGCTGGTATGATCGCACTGCGTCTCGCTCCGCCAATTCGGTTACGCACGA
CELEGANS 1167 GTTTTGTGTTGAAGCTGGAATGATTGCTCTTCGACGAGATGCTACTGAGATTCTTCATGA
FLOWER 1149 AGTGTGTGTAGAGGAGGCATGTTAGCTCTTCGCGGTGATGCCACAGAGGTGAACCATGA
1681 1681.....1690.....1700.....1710.....1720.....1730.....

PIG 562 -----
TROUT 555 GGACTACATGGAAGGCATCTTAGAAGT-----
HOMO 1413 GGACTACATGGAAGGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTACAATACTA
COW 707 -----
MOUSE 1439 GGACCACATGGAGGGCATCCTGGAGGTTAGGCCAAGAAGAAAGCCAACCTACAATACTA
RAT 1491 GGACTACATGGAGGGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTTCAGTACTA
FROG 1429 AGATTATATGGAGGGAATCTTAGAAGTCCAGGCCAAGAAAAAGCCAATTTACAGTACTA
DANIO 867 -----
FLY 1357 AGACTTCATGGACGCCATCATGGAAGTGCAGGCCAAGAAGAAAGCTAATCTTAACTACTA
CELEGANS 1227 AGACTTTATGGATGCTATTCTGGAGGTCCAGGCCAAGAAGAAAGCGTCCCTCAATACTA
FLOWER 1209 AGACTTCAATGAAGGTATCATCCAAGTCCAGGCCAAGAAGAAAGCAAGCTTGAATACTA
1741 1741.....1750.....1760.....1770.....1780.....1790.....

PIG 562 -----
TROUT -----
HOMO 1473 CGCCTAG-----GGCA-----
COW 707 -----
MOUSE 1499 TGCCTAG-----GGGA-----
RAT 1551 TGCCTA-----GGGA-----
FROG 1489 TGCATAGAGCACAGGTGGGAAATCTTTGGGAGGATCTGCTGAGTGTTGAACCTAGACTGT
DANIO 867 -----
FLY 1417 CGCTTAGACTAAAAATTTGCA-----GTTTAACTTCACATTG
CELEGANS 1287 CGC-----
FLOWER 1269 CGC-----
1801 1801.....1810.....1820.....1830.....1840.....1850.....

PIG 562 -----
TROUT -----
HOMO 1484 -----CACAGG-----
COW 707 -----
MOUSE 1510 -----CAC-----
RAT 1561 -----CAC-----
FROG 1549 TTATGTTACAGGAAGAAATAAACCCAGACTTTAAATAAACCAAATCTCTGACAGTGACATC
DANIO 867 -----
FLY 1454 TCAGCTCCCA-----TTAAAATAAACCA-----
CELEGANS 1290 -----
FLOWER 1272 -----
1861 1861.....1870.....1880.....1890.....1900.....1910.....

PIG 562 -----
TROUT -----
HOMO 1490 -----
COW 707 -----
MOUSE 1513 -----
RAT 1564 -----
FROG 1609 TTTGATCCCAATTTTCATGTTATGCCAGTCATTAATCTAACCCCTGAAGTTCAGTGGCAAGT
DANIO 867 -----
FLY 1477 -----
CELEGANS 1290 -----
FLOWER 1272 -----
1921 1921.....1930.....1940.....1950.....1960.....1970.....

PIG 562 -----
TROUT -----
HOMO 1490 -----
COW 707 -----
MOUSE 1513 -----
RAT 1564 -----
FROG 1669 GTTGATTCCAAGGAGCTTGTATAAAGATTATACCTGTTGCAGGAAAATGCTTGTGGCCGT
DANIO 867 -----
FLY 1477 -----
CELEGANS 1290 -----
FLOWER 1272 -----
1981 1981.....1990.....2000.....2010.....2020.....2030.....

PIG 562 -----
TROUT -----
HOMO 1490 -----
COW 707 -----
MOUSE 1513 -----
RAT 1564 -----
FROG 1729 TAATTGTATATATTCTAAGCATGTGCCGTCTGGTTTAGAAAAGTCAATATACTGTTTCTT
DANIO 867 -----
FLY 1477 -----
CELEGANS 1290 -----
FLOWER 1272 -----
2041 2041.....2050.....2060.....2070.....2080.....2090.....

PIG 562 -----
TROUT -----
HOMO 1490 -----
COW 707 -----
MOUSE 1513 -----
RAT 1564 -----
FROG 1789 TTATTGAATTACCCTGACATATACGAGGGTTGATTTTTACGCTTGTGTTTTGTGTCCTGG
DANIO 867 -----
FLY 1477 -----
CELEGANS 1290 -----
FLOWER 1272 -----
2101 2101.....2110.....2120.....2130.....2140.....2150.....

PIG 562 -----
TROUT -----
HOMO 1490 -----
COW 707 -----
MOUSE 1513 -----
RAT 1564 -----
FROG 1849 AGCATGCTGTGGTTCCTTTTGCAAGTAAAACCTATATGTAAATGCAAACGAATATAAAAT
DANIO 867 -----
FLY 1477 ----- TGGAAATG-----
CELEGANS 1290 -----
FLOWER 1272 -----
2161 2161.....2170.....2180.....2190.....2200.....2210.....

PIG 562 -----
TROUT -----
HOMO 1490 ----- CCAGCCC
COW 707 -----
MOUSE 1513 ----- CTC
RAT 1564 ----- CTC
FROG 1909 CTTACATCTGCCTTGAAAACCCAAATACCTTTTATGTACAAGCTTTAAGTTTGCCAGATG
DANIO 867 -----
FLY 1485 -----
CELEGANS 1290 -----
FLOWER 1272 -----
2221 2221.....2230.....2240.....2250.....2260.....2270.....

PIG 562 -----
TROUT -----
HOMO 1497 CAGTCT----- CACG-----
COW 707 -----
MOUSE 1516 TAGTCT----- GTCC-----
RAT 1567 TAGTCT----- GTCT-----
FROG 1969 CAGTATACCACGCATTTT CAGATGATGTAAGGTGTTCAAAGCTACTGTTATAGAGTCCTGC
DANIO 867 -----
FLY 1485 -----
CELEGANS 1290 -----
FLOWER 1272 -----
2281 2281.....2290.....2300.....2310.....2320.....2330.....

PIG 562 -----
TROUT -----
HOMO 1507 -----
COW 707 -----
MOUSE 1526 -----
RAT 1577 -----
FROG 2029 AGTGGGTCAGGTACCCGCAAAAAAAGTGGGTATAGATACGGGTCTCTTTTTATATATTTT
DANIO 867 -----
FLY 1485 -----
CELEGANS 1290 -----
FLOWER 1272 -----
2341 2341.....2350.....2360.....2370.....2380.....2390.....

PIG 562 -----
TROUT -----
HOMO 1507 -----
COW 707 -----
MOUSE 1526 -----
RAT 1577 -----
FROG 2089 ACTCATTTTAAAATGTTTTCAAACCTTTCTTTCTGTCTCCGCCCACTTATGATGATGCCAC
DANIO 867 -----
FLY 1485 -----TAAAATTTTC---AGTTTCGATCTGAGTTGCCCC-----
CELEGANS 1290 -----
FLOWER 1272 -----
2401 2401.....2410.....2420.....2430.....2440.....2450.....

PIG 562 -----
TROUT -----
HOMO 1507 -----GCTG-----AAG-----T
COW 707 -----
MOUSE 1526 -----GCTGGTCTGAGGGCTAAAG-----T
RAT 1577 -----GCTGGGGCGGGGGCT-CGG-----T
FROG 2149 TTCCGGTTTGCAGTACCAGCACTTCTGTTTAATGGTGGTCGGCAGGTTGCGGATCGGGT
DANIO 867 -----
FLY 1517 -----TTGAAGATCGCCT
CELEGANS 1290 -----
FLOWER 1272 -----
2461 2461.....2470.....2480.....2490.....2500.....2510.....

PIG 562 -----
TROUT -----
HOMO 1515 GCGCAATAA-----
COW 707 -----
MOUSE 1546 TGATAATAA-----
RAT 1596 TGATAATAA-----
FROG 2209 TCGGATAAGGCAGTTGCGGGCCAGGGTCAGGTAGCAAATCCAAGTGGGTAAACGGTTTG
DANIO 867 -----
FLY 1530 TTAAAATA-----ACATCGCAA-----
CELEGANS 1290 -----
FLOWER 1272 -----
2521 2521.....2530.....2540.....2550.....2560.....2570.....

PIG 562 -----
TROUT -----
HOMO 1524 -----
COW 707 -----
MOUSE 1555 -----
RAT 1605 -----
FROG 2269 CCGTTCCGGGCTGCGGATTCCGGTTTTGAAAAATGGTTCCACTCAGGACTCTCTACTGTTG
DANIO 867 -----
FLY 1547 -----CGGCTCTTAAA-----GTAAGTAGAATGGGA
CELEGANS 1290 -----
FLOWER 1272 -----
2581 2581.....2590.....2600.....2610.....2620.....2630.....

PIG 562 -----
TROUT -----
HOMO 1524 -----
COW 707 -----
MOUSE 1555 -----
RAT 1605 -----
FROG 2329 GTCGCACTTTAATC--TACCCAAAGACTGTTGTAGCAACAACAAGCACCTAAGAAGTAA
DANIO 867 -----
FLY 1574 GACGTACTGAAATCAATACCCAACCTTTTT-----
CELEGANS 1290 -----
FLOWER 1272 -----
2641 2641.....2650.....2660.....2670.....2680.....2690.....

PIG 562 -----
 TROUT -----
 HOMO 1524 --AAGAT-----
 COW 707 -----
 MOUSE 1555 --AAGGT-----
 RAT 1605 --AGGGG-----
 FROG 2387 CTAAGGTAGCCTGAAAAATAAAATAAATGACTTTTTCTGTACCACCTTAGCATAATAGGG
 DANIO 867 -----
 FLY 1604 -----AAAATAAA-----
 CELEGANS 1290 -----
 FLOWER 1272 -----
 2701 2701.....2710.....2720.....2730.....2740.....2750.....

PIG 562 -----
 TROUT -----
 HOMO 1529 -----GGTT-----
 COW 707 -----
 MOUSE 1560 -----GTTT-----
 RAT 1610 -----GTTT-----
 FROG 2447 GAGGATTTGAATTATACAAATATGTATATTGTTGCAGATTCCTGTGTATACTTTTTGTTT
 DANIO 867 -----
 FLY 1612 -----
 CELEGANS 1290 -----
 FLOWER 1272 -----
 2761 2761.....2770.....2780.....2790.....2800.....2810.....

PIG 562 -----TTCTC-----
 TROUT -----
 HOMO 1533 T-----
 COW 707 -----
 MOUSE 1564 T-----
 RAT 1614 T-----
 FROG 2507 TTTACCCAAAACCTCCATGTTATTAAAATACATTTCTCTCATATCTCTAAAGGGCGAAGT
 DANIO 867 -----AAAGGGTG-----
 FLY 1612 -----
 CELEGANS 1290 -----
 FLOWER 1272 -----
 2821 2821.....2830.....2840.....2850.....2860.....2870.....

PIG 567 -----CTTGCCA-----
 TROUT -----
 HOMO 1534 -----
 COW 707 -----
 MOUSE 1565 -----
 RAT 1615 -----
 FROG 2567 GAGTAACGATAGCGAAAAATCACCAGCGTGGTGTAATTTCGGAACTTCGCCAATTTCTTA
 DANIO 875 -----
 FLY 1612 -----
 CELEGANS 1290 -----
 FLOWER 1272 -----
 2881 2881.....2890.....2900.....2910.....2920.....2930.....

PIG 575 --GAGCAAAGGCGTCCCG-----GACCAGCTTGG-----
 TROUT -----
 HOMO 1534 -----
 COW 707 -----
 MOUSE 1565 -----
 RAT 1615 -----
 FROG 2627 ACGGGCGCAGGCGTCACTTCGCTAGCGAAGGAGAGAGACTAGCTTGCTTCACACTCTA
 DANIO 875 -----
 FLY 1612 -----
 CELEGANS 1290 -----
 FLOWER 1272 -----
 2941 2941.....2950.....2960.....2970.....2980.....2990.....

PIG 602 -----
TROUT -----
HOMO 1534 -----
COW 707 -----
MOUSE 1565 -----
RAT 1615 -----
FROG 2687 ATGCCAGGCGAATTTTCGCTCTGGCGAACAGACGTAACTCCGCAAATTCACTAAGATGCG
DANIO 875 -----
FLY 1612 -----
CELEGANS 1290 -----
FLOWER 1272 -----
3001 3001.....3010.....3020.....3030.....3040.....3050.....

PIG 602 -----CACCA-----
TROUT -----
HOMO 1534 -----
COW 707 -----
MOUSE 1565 -----
RAT 1615 -----
FROG 2747 GATTTTACTGAATGTTACCTCATTGCCAGACTAGCCTTCACCAGCTGAGACCAGGCGAA
DANIO 875 -----
FLY 1612 -----
CELEGANS 1290 -----
FLOWER 1272 -----
3061 3061.....3070.....3080.....3090.....3100.....3110.....

PIG 607 -----TCCCAATG-----
TROUT -----
HOMO 1534 -----
COW 707 -----
MOUSE 1565 -----
RAT 1615 -----
FROG 2807 GTGCATTGGAGTGCATAGAACTTCCTCAATTTTTAGTCCCAAAAACGCTGGCGTCTTTT
DANIO 875 -----
FLY 1612 -----
CELEGANS 1290 -----
FLOWER 1272 -----
3121 3121.....3130.....3140.....3150.....3160.....3170.....

PIG 616 -----
TROUT -----
HOMO 1534 -----
COW 707 -----
MOUSE 1565 -----
RAT 1615 -----
FROG 2867 CCTTTTTTTCAGAGTGATAACCTGCAAAGGTCCCTCCTTTTTCTAACATATGGAACATAA
DANIO 875 -----
FLY 1612 -----
CELEGANS 1290 -----
FLOWER 1272 -----
3181 3181.....3190.....3200.....3210.....3220.....3230.....

PIG 616 -----
TROUT -----
HOMO 1534 -----AGGGT
COW 707 -----
MOUSE 1565 -----CTGTT
RAT 1615 -----TGTT
FROG 2927 ACTATACACTGGACTCATGTGTAGGGCATTATAAGAACTCTATTTTATTTTATTAATATT
DANIO 875 -----
FLY 1612 -----
CELEGANS 1290 -----
FLOWER 1272 -----
3241 3241.....3250.....3260.....3270.....3280.....3290.....

PIG 616 -----
 TROUT -----
 HOMO 1539 CCCTGCC-----
 COW 707 -----
 MOUSE 1570 -----
 RAT 1619 CTTTTCC-----
 FROG 2987 CCCTGGGTTTGTGTAATGTAATGTATTTGCTTAAACATATATATGTGTATCCCTTCTAAA
 DANIO 875 -----
 FLY 1612 -----CAAATAATATATCA-----
 CELEGANS 1290 -----TT-----
 FLOWER 1272 -----CT-----
 3301 3301.....3310.....3320.....3330.....3340.....3350.....

PIG 616 -----
 TROUT -----
 HOMO 1546 -----AAAAAAAAAAAAAAAAAAAAAAAAA
 COW 707 -----
 MOUSE -----
 RAT 1626 -----
 FROG 3047 GTGTATCATTTTGACCATAAATAAGCAGATTCAGTCTAAAAAAAAATAAAAAAAAAAAAAAAAAA
 DANIO 875 -----CAAAAAGGA
 FLY 1627 -----A
 CELEGANS 1292 -----A
 FLOWER 1274 -----G
 3361 3361.....3370.....3380.....3390.....3400.....3410.....

PIG 616 -----AA
 TROUT -----
 HOMO 1568 AAAAAAAAAAAAAAAAAAA
 COW 707 -----AA
 MOUSE -----
 RAT 1626 -----CA
 FROG 3107 A-----
 DANIO 884 C-----
 FLY 1628 A-----
 CELEGANS 1293 A-----
 FLOWER 1275 A-----
 3421 3421.....3430...