

COW 1 -----TTTTTTTAAATATTTTAAATGTTT-----  
FLY 1 GAAAAGTAAGC-----CCTTTTCGAAGTGTTATTTGTCAACCAGC-----  
CELEGANS 1 -----  
FLOWER 1 AGAGCAAAAAGCTTCTGTTTATTCTCCGATTTCGCAG-----ATCAATTAGCTGGGTTT  
SOY 1 GG-----  
HOMO 1 GT-----TGGCTG-CC-----GGTGAGTTG  
PIG 1 GG-----CGG-TG-TG-----GGTGATCTG  
MOUSE 1 G-----C-----  
RAT 1 G-----CGGTG-TG-----GTTGAGTAG  
TROUT 1 -----TG-----ACCCAGA--  
FROG 1 GG-----TAGTTGCTG-----TCCCGGTTG  
1 1.....10.....20.....30.....40.....50.....

COW 25 -----CTTTATT-----TCAGAA--  
FLY 41 -----GTGCATAACACTTAACTAAATTAC-----  
CELEGANS 1 -----  
FLOWER 53 TGATTCCGTTGTGCGAAGGACTTTAA-GAGGTTTTGCAGA-----TCGAAA--  
SOY 3 -----CAC-GAGG-----  
HOMO 20 GGT--GC-----CGGT-----GG-AGTCGTGTTGGTCTCAGAATCC  
PIG 19 GGT--GC-----CGGT-----GG-ACTCGTGTTGGCCCTTAGAATCC  
MOUSE 3 -----TGCT-----TTCAATCGTG-TGGCCTTTGGGAACC  
RAT 18 GGT--GC-----TGCT-----TTCAGTCGTG-TGGCCTTT-GAAACT  
TROUT 10 -----GCGGGTG-----  
FROG 21 CTTTTGC-----CGCTTTACTGTGGTCTGCCGTTCTGTCTGCTGTTA-----  
61 61.....70.....80.....90.....100.....110.....

COW 38 -----CTGCCTTTATGTACAGACATCATAAAAAAAT--GCACAT-----  
FLY 65 -----AGCCACCATGTTTCTCAGC  
CELEGANS 1 -----ATGTTCTCACT  
FLOWER 98 -----TCGGAAGAGAAGAAGAAGATGTTTCTCACT  
SOY 10 -----GAAGATGTTTCTCACA  
HOMO 54 CCGCGTAGCCGCTGCCTCCT---CCTACCCTCGC-----CATGTTCTTACC  
PIG 53 CCGCGTAGCCGCTGTGCTTTGTCTGCGGTTAC-----CATGTTCTTACC  
MOUSE 32 CCGCGTAGCCACTGCCGCTCCTTCTGTCTCCTCGC-----CATGTTCTCACT  
RAT 51 CCGCGTAG-CACTGCCGCTCCTCCTGTCTCCTCGC-----CATGTTCTCACT  
TROUT 17 -ATCTAAAACCTTC-----AAGATGTTTTTGACG  
FROG 64 -ATTGAAAAGATTGCCATCGTCCATTGTATCTGGA-----ATCATGTTCTTAACC  
121 121.....130.....140.....150.....160.....170.....

COW 75 -----ACACTGGAG-----ATTTCCCAA  
FLY 85 CGTTCGGAGTA-CGACAGAGGCGTGAACACCTTCTCGCCGGAGGGCCGCTCTTCCAAGT  
CELEGANS 13 CGCAGCGAGTA-CGATCGTGGAGTCAACACTTTTTCTCCAGAAGGGCGTTGTTCCAAGT  
FLOWER 128 AGAACTGAGTA-TGACAGAGGAGTGAACACTTTTTCTCCAGAAGGAAGGCTATTTCAAGT  
SOY 26 AGGACTGAGTA-TGACAGAGGAGTGAACACTTTTTCTCCGAAGGCGTTGTTCAAGT  
HOMO 98 CGGTCTGAGTA-CGACAGGGCGTGAATACTTTTTCTCCGAAGGAAGATTATTTCAAGT  
PIG 100 CGGTCTGAGTA-CGACAGGGGTGTGAACACTTTTTCTCCTGAAGGAAGATTATTTCAAGT  
MOUSE 79 CGGTCCGAGTA-CGACAGGGGTGTGAATACTTTTTCTCCTGAAGGAAGATTATTTCAAGT  
RAT 97 CGGTCCGAGTA-CGACAGGGGTGTGAACACTTTTTCTCCTGAAGGAAGATTATTTCAAGT  
TROUT 45 AGATCGGAGTATCTACAGAGGAGTAAACACTTTTTCTCCAGAGGGACGACTGTTCCAAGT  
FROG 113 CGTCCGAGTAT-GACAGGGGGTCAACACATTTCTCTCCGAAGGCCGACTGTTCCAAGT  
181 181.....190.....200.....210.....220.....230.....

COW 93 GGAA-----  
FLY 144 GGAATATGCCATTGAGGCCATCAAATGGGCTCCACAGCAATTGGAATTTGCACGCCAGA  
CELEGANS 72 GGAATACGCTATTGAGGCCGTCAAACCTCGGATCTACAAGCATTGGAATCAAGACGAGCGA  
FLOWER 187 GGAATATGCCATTGAAGCTATCAAGCTTGGTTCTACTGCAATTGGAGTAAAGACAAAAGA  
SOY 85 TGAGTATGCAATCGAAGCCATCAAGCTGGGATCAACTGCGATTGGTTGAAGACCAAAGA  
HOMO 157 GGAATATGCCATTGAGGCTATCAAGCTTGGTTCTACAGCCATTGGGATCCAGACATCAGA  
PIG 159 GGAATATGCCATTGAGGCTATCAAGCTTGGTTCTACAGCCATTGGGATCCAGACATCAGA  
MOUSE 138 GGAATATGCCATTGAGGCTATCAAGCTTGGTTCTACAGCCATTGGCATCCAGACCTCAGA  
RAT 156 GGAATATGCCATTGAGGCCATAAGCTTGGTTCTACAGCCATTGGCATCCAGACATCAGA  
TROUT 105 GGAATATGCTATTGAGGCGATAAGCTGGGCTCCACAGCATTGGCATCCAGACATCTGA  
FROG 172 TGAGTATGCAATCGAAGCCATAAAGCTTGGTTCAACAGCAATTGGGATCCAGACTGCAGA  
241 241.....250.....260.....270.....280.....290.....

COW 97 -----CTGGAGCTGGAAATAAAAGTTA-----AGGGCAACTAGAAGAAC  
FLY 204 AGGAGTGGTTTTGCGGTGGAGAAGCGCATCACTTCGCCGCTAATGGTACCAGTACTGT  
CELEGANS 132 AGGTGTTCTTCTCGCTGCTGAGAAAAGATCGACATCGAAGCTGATGGTCAATGACGCGAT  
FLOWER 247 AGGAGTTGTGCTTGCTGTGAGAAGCGTATCACGTGCGCATTGCTGGAACCGAGCAGTGT  
SOY 145 AGGAGTTGTCTTGCAGTTGAAAAGCGCATCACATCGCCGCTCCTGGAGCCTAGTAGTGT  
HOMO 217 GGGTGTGTGCCTAGCTGTGAGAAGAGAATTACTTCCCCTGATGGAGCCAGCAGCAT  
PIG 219 GGGTGTGTGCCTAGCTGTGAGAAGAGAATTACTTCTCCGCTCATGGAGCCAGCAGCAT  
MOUSE 198 GGGTGTATGTCTAGCTGTGAGAAGAGAATTACTTCCCCTAATGGAGCCTAGCAGCAT  
RAT 216 GGGTGTATGTCTAGCTGTGAGAAGAGAATTACTTCCCCTAATGGAGCCTAGCAGCAT  
TROUT 165 GGGGGTGTGTCTGCGGTGAGAAGAGGATAACATCTCCTCTAATGGAGCCAAGCAGCAT  
FROG 232 GGGGGTATGTCTAGCAGTTGAGAAGAGGATTACTTCCCCTTGATGGAACCTAGTAGCAT  
301 301.....310.....320.....330.....340.....350.....

COW 136 TGA AATTGTCCCAAGAAAT TCTATGGAT-----CACACTTCC-----  
FLY 264 GGAGA-----AGATTGTGGAGGTGGACAAGCACAT TGGTTGCGCCACCTCCGGC  
CELEGANS 192 CGAGA-----AAATCAGCAAGGTCGACCAACATATTGGCGTCACTTCGAGGT  
FLOWER 307 GGAGA-----AGATTATGGAAATTGATGACCATATTGGTTGTGCTATGAGCGGT  
SOY 205 TGAGA-----AAATTATGGAAATTGATGACCATCGGTTGTGCAATGAGTGGG  
HOMO 277 TGAGA-----AAATGTAGAGATTGATGCTCATAGGTTGTGCCATGAGTGGG  
PIG 279 TGAGA-----AGATTGTAGAGATTGATGCTCATAGGTTGTGCCATGAGTGGG  
MOUSE 258 TGAGA-----AGATTGTAGAGATTGATGCTCATATAGGTTGTGCCATGAGTGGG  
RAT 276 TGAGA-----AAATCGTAGAGATTGATGCTCATATAGGTTGTGCCATGAGTGGG  
TROUT 225 CGAGA-----AGATTGTGGAGATCGACACCACATCGGTTGTGCTATGAGTGGC  
FROG 292 TGA A-----AAATGTAGAAATTGACGCGCACATAGGTTGCGCCATGAGTGA  
361 361.....370.....380.....390.....400.....410.....

COW 174 TTA AATG-----TCC TTGATAAACCTC-----  
FLY 313 TTGATGGCCGATGCCAGGACTCTGATCGAGAGGGCACGCGTGGAGTGCCAGAACCCTGG  
CELEGANS 241 TTGATTGCCGACTCGCGCACTCTGGT CGAACGGGCACAGATCGAGGCTCAA AATTTCTGG  
FLOWER 356 TTAATTGCTGACGCGCGCACACTTGT TTAGCATGCTAGAGTTGAAACTCAA AACCATAGA  
SOY 254 TTGATTGCAGATGCTCGAACACTTTGTTGAGCATGCACGGGTGGAAACTCAGAATCACAGG  
HOMO 326 CTAATTGCTGATGCTAAGACTTTAATTGATAAAGCCAGAGTGGAGACACAGAACCCTGG  
PIG 328 CTAATTGCTGATGCTAAGACTTTAATTGATAAAGCCAGAGTGGAGACACAGAACCATTGG  
MOUSE 307 CTAATTGCTGATGCTAAAAC TTTAATTGATAAAGCCAGAGTGGAGACACAGAACCCTGG  
RAT 325 CTAATTGCTGATGCTAAAAC TTTAATTGATAAAGCCAGAGTGGAGACACAGAACCCTGG  
TROUT 274 TTGATAGCTGATGCCAAGACTCTTATTGACAAAGCAAGAGTGGAGACACAGAACCCTGG  
FROG 341 TTAATAGCAGATGCAAAGACATTGATTGACAAAGCCCGGTTGGAGACACAGAATCACTGG  
421 421.....430.....440.....450.....460.....470.....

COW 195 TTC AAGTTCTTCTTTGTGAACATG----TGAAATTCTGGCC-AGGCTG----CACTGT  
FLY 373 TTCG----TCTACAACGAGCGCATGTCCATCGAGTCTGCGCCAGGCTGTGTCCACTTT  
CELEGANS 301 TTC A----CTTATAACCGCAAATTCGCGTGAAGACGTCACCTCAGTCGGTCGCCAATCT  
FLOWER 416 TTCT----CGTATGGTGAGCCGATGACTGTAGAGTCCACAACAAGCACTGTTGTGATCT  
SOY 314 TTCT----CCTATGGTGAGCCTATGACTGTTGAGTCCACCACCAAGCTCTTTGTGATCT  
HOMO 386 TTC A----CCTACAATGAGACAATGACAGTGGAGAGTGTGACCCAGCTGTGTCCAATCT  
PIG 388 TTC A----CCTACAATGAGACAATGACAGTGGAGAGTGTGACTCAGGCTGTGTCAAATCT  
MOUSE 367 TTC A----CCTATAATGAGACAATGACAGTGGAGAGTGTGACCCAGGCTGTGTCCAATCT  
RAT 385 TTC A----CCTATAATGAGACAATGACAGTGGAGAGTGTGACCCAGGCTGTGTCCAATCT  
TROUT 334 TTC A----CCTACAACGAGACCATGACAGTGGAGAGTGTGACCCAGGCCGTGTCTAACCT  
FROG 401 TTTA----CATACAATGAGACCATGACAGTGGAAAGTGT TACACAAGCTGTTTCCAACCT  
481 481.....490.....500.....510.....520.....530.....

COW 246 GGCT-----AGCTCTATGTTAGTTGCATTC  
FLY 429 GGCCATCCAGTTCGGTGATAGTGGCGACAGCGATGGTGCCGCCG-----ATG-----  
CELEGANS 357 AGCTCTTCAGTT-----TGAGACGACGACGTCAAAGCATCA-----ATG-----  
FLOWER 472 GGCTTTACGGTTTGGTGAAGGAGAG-----AAGAATCA-----ATG-----  
SOY 370 AGCCTTGCCTTTTGGTGAAGGTGATG-----AAGAGTCC-----ATG-----  
HOMO 442 GGCTTTGCAGTTTGGAGAAGAAGATG-----CAGATCCAGGTGCCATG-----  
PIG 444 GGCTCTCCAGTTTGGAGAAGAGGATG-----CAGATCCAGGTGCCATG-----  
MOUSE 423 GGCTCTGCAGTTTGGAGAAGAAGATG-----CAGATCCAGGTGCTATG-----  
RAT 441 GGCTTTGCAGTTTGGAGAAGAAGATG-----CAGATCCAGGTGCTATG-----  
TROUT 390 GGCCCTGCAGTTTGGAGAGGAGGATG-----CAGACCTGGAGGCTATG-----  
FROG 457 AGCTCTGCAGTTTGGAGAGGAGGATG-----CTGACCCTGGGGCAATG-----  
541 541.....550.....560.....570.....580.....590.....

COW 271 AGCTTCTCCTCCATTA-----CTTGTTTGAGGATT--ATGAGTGAAGACT---  
FLY 478 ----AGTCGTCCCTTTGGTGTGGCCATTTCTATTTGCCGGCATCGAGGCGGGACAACCCCA  
CELEGANS 397 ----TCTCGTCCATTTGGTGTAGCAATGCTGTTCTGCTGGTGTAGACCAAGAAGGAGCCAA  
FLOWER 509 ----TCTCGGCCGTTTGGAGTATCTCTTCTCATTGCTGGCCATGATGAAAATGGACCAAG  
SOY 407 ----TCCCGACCAATTGGAGTATCTCTCCTCATTGCTGGTCATGATGAGAATGGACCTAG  
HOMO 485 ----TCTCGTCCCTTTGGAGTAGCATTATTATTTGGAGGAGTTGATGAGAAAGGACCCCA  
PIG 487 ----TCTCGTCCCTTGGAGTAGCACTGTTATTTGGAGGAGTTGATGAAAAGGACCCCA  
MOUSE 466 ----TCTCGTCCCTTTGGAGTAGCATTGTTGTTTGGAGGAGTTGATGAGAAAGGACCCCA  
RAT 484 ----TCTCGTCCCTTTGGAGTAGCATTGTTGTTTGGAGGAGTTGATGAGAAAGGACCCCA  
TROUT 433 ----AGCCGGCCCTTTGGTGTAGCGCTTCTCTTTGGTGGACTGGATGAGAAAGGGCCCA  
FROG 500 ----AGTCGTCCATTTGGTGTGGCTTTGCTTTTGGAGGAGCAGATGAAAAGGACCTCA  
601 601.....610.....620.....630.....640.....650.....

COW 314 -----TGATGGCTTCTTTCAGTGTCA-----AGACTTGTGGTA  
FLY 534 GTTGTGGCACATGGATCCCTCCGGCACATTCTGCGCCACGGAGCCAAGGCCATTGGCTC  
CELEGANS 453 ACTGTTCCATCTCGATCCATCTGGAACCTTTCATCGATTGTAAGGCTAAATCGATCGGTGC  
FLOWER 565 CTTGTACTACACTGATCCCTCAGGAACATTCTGGCAGTGCAATGCAAAGGCAATTGGTTC  
SOY 463 CTTATACTACACTGATCCATCTGGCACATTTTGGCAATGCAATGGCAAAGCTATTGGTTC  
HOMO 541 GCTGTTTCATATGGACCCATCTGGGACCTTTGTACAGTGTGATGCTCGAGCAATTGGCTC  
PIG 543 GCTGTTTCATATGGATCCATCTGGAACGTTTGTACAGTGTGATGCTCG-----  
MOUSE 522 ACTGTTTCACATGGACCCATCTGGGACCTTTGTACAGTGTGATGCTCGAGCAATTGGCTC  
RAT 540 ACTGTTTCACATGGACCCATCTGGGACCTTTGTACAGTGTGATGCTCGAGCAATTGGTTC  
TROUT 489 GCTGTACCACATGGACCCATCAGGCACCTTTGTCCAGTGTGATGCCCGGGCCATCGGCTC  
FROG 556 ACTATTCCATATGGACCCATCAGGAACCTTTGTTTCAGTGTGATGCCCGTGCATTGGCTC  
661 661.....670.....680.....690.....700.....710.....

COW 348 AACTTCT-----TGCAAGGAGCTCTGAGCACC-----CTCTGAA  
FLY 594 GGGCAGCGAAGGTGCTCAGCAGAATCTGCAGGACTTATTTAGACCCGATTTGACTCTCGA  
CELEGANS 513 AGCTAGCGATGGAGCTGAGCAGAATCTCAAGGAGCAATATCATGATGCTCTGACTATCAA  
FLOWER 625 AGGTTCTGAAGGAGCTGATAGCTCTCTTCAAGAGCAATTCACAAGATTTGTCTCTACA  
SOY 523 AGGGTCAGAAGGTGCAGACAGTTCTCTACAAGAACAATTCACAAGGACCTAACCTTCA  
HOMO 601 TGCTTCAGAGGGTGCCAGAGCTCCTTGCAAGAAGTTTACCACAAGTCTATGACTTTGAA  
PIG -----  
MOUSE 582 TGCTTCTGAGGGTGCCAGAGCTCCTTGCAAGAAGTTTACCATAAGTCTATGACTCTGAA  
RAT 600 TGCGTCAGAGGGTGCCAGAGCTCCTTGCAAGAAGTTTACCACAAGTCTACGACTCTGAA  
TROUT 549 TGCTTCTGAGGGAGCCAGAGCTCTCTGCAGGAGGTCTACCACAAGTCCATGACGTTAAA  
FROG 616 TGCATCTGAGGGTGCCAGAGTTCTTTGCAGGAGGTATATCACAAGTCCATGACACTGAA  
721 721.....730.....740.....750.....760.....770.....

COW 382 GCAGAGC--CAATTGCTCGAGCATCACACTGTACAAAG-----GTTCCAGATGGGTCC  
FLY 654 TGAGGCTATCGACATTTTCGCTCAACACACTTAAACAGGTTATGGAGGAGAAA-----  
CELEGANS 573 GGAAGGACTCAAGATGGCATTTGGCCATTTCTCAAGCAGGTGATGGAAGAGAAA-----  
FLOWER 685 AGAAGCTGAGACTATCGCTGTATCTATCCTAAAGCAAGTTATGGAAGAAAAGGTGACTCC  
SOY 583 AGAAGCCGAGACTATTGCTTTATCCATTTTGAAGCAAGTTATGGAAGAAAAGGTCACTCC  
HOMO 661 AGAAGCCATCAAGTCTTCACTCATCATCCTCAAACAAGTAATGGAGGAGAAGCTGAATGC  
PIG -----  
MOUSE 642 GGAGGCCATCAAGTCTTCTCATCATCCTCAAGCAAGTCATGGAGGAGAAGCTGAATGC  
RAT 660 GGAGGCCATCAAGTCTTCACTCATCATCCTCAAGCAAGTCATGGAGGAGAAGCTGAACGC  
TROUT 609 AGAGGCCATCAAGTCATCCCTCACCATCCTAAAGCAGGTGATGGAGGAGAAGCTGAATGC  
FROG 676 GGAAGCCATTAATCTTCCCTCACCATCTGAAGCAAGTCATGGAGGAGAAGCTGAATGC  
781 781.....790.....800.....810.....820.....830.....

COW 433 ATG-----TGAAACAGCTGGGGTCTTTTTTCATC-----AACTCCTCCAAT--  
FLY 706 -----CTAAACTCCACCA-ATGT  
CELEGANS 625 -----CTGAACTCCGCCA-ATGT  
FLOWER 745 AAATAACGTGGATATTGCCAAGGTAGCACCAGCTTATCATCTACACTCCACAAGAAGT  
SOY 643 CAACAACGTTGACATTGCCAAGGTGGCTCCAACGTATCATCTTTATACACCCGTCTGAGGT  
HOMO 721 AACAAACATTGAGCTAGCCACAGT-GCAGCCTGG-----CCAGA--  
PIG -----  
MOUSE 702 AACCAACATCGAGCTAGCCACGGT-GCAGCCTGG-----TCAGA--  
RAT 720 AACCAACATCGAGCTGGCCACAGT-GCAGCCTGG-----TCAGA--  
TROUT 669 CACCAACATTGAGCTGGCTACAAT-AGAGCCAGG-----CAAGA--  
FROG 736 AACAAACATTGAGCTTGGCCACAGT-AGAACCTGN-----GAAGA--  
841 841.....850.....860.....870.....880.....890.....

COW 475 ---AACAGTGCTACTCCG-----AAGGGAC  
FLY 723 GGAGG---TGATGACC----ATGACGAAAGAAAGAGAGTTCTACATGTTACCAA----  
CELEGANS 642 CGAAG---TCGT-----TGTTATCAA----  
FLOWER 805 CGAAGCAGTCATCGCTCGTCTTTGATTGAAAAAACTCAATTTGGGTAATTTACCTA----  
SOY 703 GGAAGCTGTGATAAGTCGTTTATGATT----ATCTCTATTTCAGCATTGTTTCCTA----  
HOMO 759 -----ATTTCCACATGTTCCACAAAGGAA  
PIG -----  
MOUSE 740 -----ATTTCCACATGTTCCACAAAGGAA  
RAT 758 -----ATTTCCACATGTTCCACAAAGGAA  
TROUT 707 -----CCTTCCACATGTATTCCAAGAA  
FROG 774 -----AATT-CATATGTACTGTAAAGAG  
901 901.....910.....920.....930.....940.....950.....

COW 497 G-----GGACATGGCACCTGGGTCTGCATCTT-----CTT  
FLY 771 -----GGAGGAGGTG--GAGCAGCAC-----ATTAA-----GAAC--  
CELEGANS 661 -----CCAACAGTTG--ACGC-----  
FLOWER 861 -----TCAGCTTGTG--TCACAAAACCTTGTTACTTTTGTCTGTTAGA-----  
SOY 754 -----TC-CTTCTG--CCGTACGTCTAATTA-TTTAGTATCATGGG-----GAACTT  
HOMO 782 GAACTT-GAAGAGGTT--ATCAAGGAC-----ATTTAAGGAATCCTGATCCTCAGAAGTT  
PIG -----  
MOUSE 763 GAACTG-GAGGAGGTG--ATCAAGGAC-----ATTTAAGAAGGAGCCGTCCTC-GAACTT  
RAT 781 GAACTG-GAGGAGGTG--ATCAAGGAC-----ATTTAAGGAGGGGCCATCCTC-GAACTT  
TROUT 730 GAGCT---GGAGG-----  
FROG 796 GAGCTTTGAGGAGGT--ATTNAGGAC-----ATCTAAG-----ATT  
961 961.....970.....980.....990.....1000.....1010.....

COW 527 CTC-----CAAACCTGGAGCGCCAGATTCGACACAGCC-TGAGTCACACT-----  
FLY 799 -----A---TTGCGTAAAGCGGCAGTGGTTT  
CELEGANS 675 -----GAAGGGGC-----  
FLOWER 901 -TTGAGGATCATGTCACATTTTAGTCG--GTTGT-----GTAAGAGAATCT-----  
SOY 798 CTTGTGGATGATGCTACACTTGTGGCAAAGTTGTA---TACTGTACGAGATTCTGGTGT  
HOMO 834 CTCTGGGACAATTC-----AGTTCTAATAATGTCCTTAAA-----T  
PIG -----  
MOUSE 814 CTGTGGGACACTTTC-----AGTTCTAAT--TGCCCTTAGA-----C  
RAT 832 CTGTGGGACAGTTC-----AGTTCTAAT--GGCTCTTAGA-----C  
TROUT 740 -----  
FROG 830 CTCTACTAGATTCTC-----ACAACCTA-----CTTCGA-----C  
1021 1021.....1030.....1040.....1050.....1060.....1070.....

COW 570 -----CTCCACAGTCATGGTCTCATTGTAGGTGAACCAATGGTTCTGTGTCTCC  
FLY 821 TAAATTG--A--TCTAATTTCAA-----A-TGTAAT-----  
CELEGANS 683 -----G--TCCAATCGGAG-----A-ATTCAC-----  
FLOWER 944 -----TTTGGC--TCCCATGTCAT-----TCAATAACC-----  
SOY 854 TATATTTGCA--TTTAGTCTAGT-----TGAA-----  
HOMO 871 TTTATTTCCAGCTCCTGTTCTTGG-----AAAATCTCCATTGTATGTGCAT----  
PIG -----  
MOUSE 849 TTTATTTCCAGCTCTTATGTCATGG-----AAAATATCCAGTATATGTGTGT----  
RAT 867 TTTATTTCCAACCTC-CACGTCGT-G-----AAAATATCCAGTATATGTATGT----  
TROUT 740 -----  
FROG 859 CACAT-----CTATGTCATTG-----GCTTTCTCCAG-----GT----  
1081 1081.....1090.....1100.....1110.....1120.....1130.....

COW 619 ACTCTGGCTTTATCAATTAAAGTCTTAGCAT--CAGCAATTAGCCCACTCATGGCACAAC  
FLY 847 -----GTGAAT-----AAAGA  
CELEGANS 702 -----AAGAGT-----GTCGA  
FLOWER 970 -----TTTCGGATTTGTGACT-----TATAA  
SOY 879 -----ATTGAGGACT-----AAAAA  
HOMO 918 -----TTTTTAAATGATGTCTGTACATAAAGGCAGTT-----CTGAAATAAAGAA  
PIG -----  
MOUSE 896 -----GTGTTTTTTTATGAAGTCTGTACATAACAGCAATT-----CTGAAATAAAAAA  
RAT 912 -----GTGTTTTTTTATGATGTCTGTACATAACAGCAATT-----CTGAAATAAAAAA  
TROUT 740 -----  
FROG 888 -----GTCCCAATT-----  
1141 1141.....1150.....1160.....1170.....1180.....1190.....

COW 677 TATGTGAGCATCAA-----TCTCTACAATTTTCTCAATGCTGCTGGGCTCCATGAGT--  
 FLY 858 AA-----GGGATTCTA-----AATCGAACT  
 CELEGANS 713 AC-----GAAGAGCTC-----GATCAAGTT  
 FLOWER 991 AATTTCTTT-----TCCTAC-----  
 SOY 894 GGCTTCAATGGTTGGGAAAATTTAGAACTATTACCCGAT--TGGGGGAGGCAATGAAGGG  
 HOMO 963 AATTTTAAAATAAAAAAAAAAAAAAAAAAAAAAAAAA-----AAAAAAAAAAAAA  
 PIG -----  
 MOUSE 944 A-TTT-----  
 RAT 960 AATTT-----  
 TROUT 740 -----  
 FROG 897 -----  
 1201 1201.....1210.....1220.....1230.....1240.....1250.....

COW 729 -----G  
 FLY 878 AATAA-----TAG  
 CELEGANS 733 ATCACATCGCTTTGA  
 FLOWER 1006 -----C  
 SOY 952 AAAAAAGATTTACAC  
 HOMO 1009 AAAAAAAAAAAAAAAAAA  
 PIG -----  
 MOUSE 948 -----AAAAAT  
 RAT 965 -----ACAAAT  
 TROUT 740 -----A  
 FROG 897 -----C  
 1261 1261.....1270..