

CELEGANS 1 -----TAAAAA-----CCT
FLOWER 1 -----GGAAACTCAATCCT
FLY 1 ACTCGCAATTCGTTTCGTCGTCGAGCAGCATTGGTCGAGAGCAGCGTAAAACCCACGT
FROG 1 -----CCGCAGCTAACCTGCTTGGAGTGTG-----
DANIO 1 -----TTCTTCCTCTCCGCCGC-----GACCAGC-----
TROUT 1 -----CT-----TTGTCGGGTGTC-----GTC-----
MOUSE 1 -----AATT-----CCGGTA-----TTTAGAGCGCAGC-----
RAT 1 -----GAATT-----CCG-----
HOMO 1 -----GT-----TCTGCGGTGCTGTA-----TTTAGAGCGCAGC-----
PIG 1 -----CC-----CTT-----CGCAGC-----
COW 1 -----GCGGCTGTCGGGCCGGGTG-----CTT-----CGCAGC-----
1 1.....10.....20.....30.....40.....50.....

CELEGANS 10 T-----AT-----
FLOWER 15 T-----GTATATT-----CAACGGAG
FLY 61 ATATAGCACATATATTGTACATATAATAAAAAACTTTGTTTTCGACTTGAAGCAACGCAT
FROG 26 -----
DANIO 26 -----CTC--
TROUT 18 -----C--
MOUSE 24 -----GCCTG
RAT 9 -----
HOMO 31 -----GGCTG
PIG 12 -----CGCTT
COW 29 -----C-----
61 61.....70.....80.....90.....100.....110.....

CELEGANS 13 -----
FLOWER 31 AGAGAT-----CTGCGAGAG-----AAAGAGA
FLY 121 ACATATAACGAGCGCGCATAACATTCAGATTCATCTGTGCAAA---ACGCCGAATAAAAA
FROG 26 -C---TGTC AATCCCGCTTCCCTCCTCCTCCCGT-----AGCGT
DANIO 29 -C---TGTCGGGTTTCGTGACCGTCTCTCCTGCTTTTGTAAAGACCTGTCAGCCAAAAGAAG
TROUT 19 -C---TGTGCTGCACGAAAGGCCT---TGCAATTGCAAGTGTGAGAATCGACAGAAA
MOUSE 29 AC---TGGCGGGGTCGCTTCCCATC---CGCTGCCT---CGA-----CGA
RAT 9 -----GA-----GAA
HOMO 36 A-----CGGGC-CGGATCGCCTTCGCCGCCGCCCGCCCGC-----AAA
PIG 17 C-----AGCGCTCGCTTCGCGCACCTCGCAGCCTGC-----
COW 30 -----TTTCGGACACAGCTTAGCTTTCGCGC-----AAG
121 121.....130.....140.....150.....160.....170.....

CELEGANS 13 -----TTCCCATCTACAAACTTCC---TCACACAA---AAAATGTCGTA-
FLOWER 53 GATCAGATTCGGGTGTTCCAAGGAAGCACATATTT---TAAGATCC---AGAATCGCCTG-
FLY 178 CTATAGTG-----CAATCACCACAGCAGCAGCA-AAACGAACTAAAATT-----
FROG 63 CGTGTGTT-----CT-----CACTTT-----
DANIO 85 ACCTCACT-----CA-----GAGTCTAAACCTGCTAGACTGAAGCTT
TROUT 71 CGTTGAC-----GTTTTAA-----AAAAGGACGTT
MOUSE 66 TCTTCGCT-----T-----GCCT--
RAT 14 TCTTCTTT-----C-----GTCT--
HOMO 73 CCTTCGT-----GCCCGG
PIG 48 -----CGC-----GCCCGG
COW 59 CCGCCGCC-----C-----GCCCGG
181 181.....190.....200.....210.....220.....230.....

CELEGANS 52 -----
FLOWER 107 -----
FLY 221 -----TCGATTTCTCATCAT-----TTGTA-----GCCT
FROG 79 -----CTCTCTTTCCCTTCCCGGGCATTTCCTTGTATTTTCTCGGACAGTTTACGGAG
DANIO 122 TCCTCCCTTTT-----CTGC-----CT-----TT
TROUT 97 TGTGCGCTTTT-----CCTT-----GT-----
MOUSE 79 -CCTCGCTCGCTGTCCCGTTGTCTAGCCCGC-----CGCCGCC-----CGCTG
RAT 27 -GCTCGCTCTCTCCCGTCGTCTAGCCCGC-----CGCCGCC-----TGCTG
HOMO 86 CCCGTCCCTCGC---CCCCGCCTCCGCCACCGC-----CTCGGCC-----CGCAG
PIG 57 CCGGCTCGT---CC-----CCG-----CTCGACC-----TGCTG
COW 74 CCGGCTCGC---ACC-----TCGCCCGGC-----CT-GGTC-----CGTTG
241 241.....250.....260.....270.....280.....290.....

CELEGANS 52 -----CGACTTG-----GAAACCGCCGAAAGAGCCGCCT
FLOWER 107 -----AGAGATG-----TCTACCTTCAGTGGCGATGAGA
FLY 245 AAAAAACACACAACAAACAAAGCAAATGTCTTCTGAAGTGAGCAGCGACAACCCCATCT
FROG 133 AGCTCGTC-----AGCCGACAGTATG---TCTGTAGAGACCGCCAGTGCGCCGAGT
DANIO 141 AGTTTTAGTCTCCCGAACGCGCGAGAAGA---AT---GGACACCAGAAC---CCCAGT
TROUT 114 -----AACCGG---TAAGA---AT---GTCGTCAGAAAGT---CCCGAAT
MOUSE 122 AGCTTGTCTTTTCCCTGCTTGACAGCATG---GC---TGACATCAAGAACAACCCCGAAT
RAT 70 AGCTTGCCCTCTCCCGCTTGACAGCATG---GC---TGACATCAAGAACAACCCCGAAT
HOMO 127 AGCTTGCCCTCTCCCGCTTGACAGCATG---TC---CGAGTCAAGAGCGGCCCGAGT
PIG 86 AGCTCGCCCTCTCCCGCTTGACAGCATG---TC---CGAGGCAAGAGCGGCCCGAGT
COW 109 AACT--GCCCTTCCCAACCGCAGACATG---TC---CGAGGCAAGAACGGCCCGAGT
301 301.....310.....320.....330.....340.....350.....

CELEGANS 81 ATGCTCCATTCTTCGGCTACATGGGAGCCGCTTCAGCCAAATCTTCACCGTCTCGGAG
FLOWER 136 CCGCTCCTTTCTTCGGCTTCTTGGCGCTGCGCTGCCTCGTCTTCTCATGTATGGGAG
FLY 305 ATGGCCCTTCTTCGGAGTATGGGAGCCGCTCCGCATCATCTTCTCGCCCTGGGCG
FROG 182 ACTCCGCTTCTTCGCTGTATGGGAGCCGCTTCGCTGTCATGGTTTTATAGCGCCTGGGAG
DANIO 192 ACTCTCCTTCTTCGCTGTATGGGAGCCGCTTCAGCGATGGTGTTCAGCGCCTGGGAG
TROUT 147 ACTCCCCTTCTTCGCTGTATGGGAGCCGCTTCGCGCTATGGTCTTCAGCGCCTGGGAG
MOUSE 176 ATTCTTCTTTTTCGGTGTATGGGAGCCGCTTCGCTGTCATGGTCTTCAGCGCCTGGGAG
RAT 124 ATTCTTCTTTTTCGGTGTATGGGAGCCGCTTCGCTGTCATGGTCTTCAGCGCCTGGGAG
HOMO 181 ATGCTTCTTTTTCGCTGTATGGGAGCCGCTTCGCGCTATGGTCTTCAGCGCCTGGGAG
PIG 140 ACGCCGCTTCTTCGCTGTATGGGAGCCGCTTCGCGCTATGGTCTTCAGCGCCTGGGAG
COW 161 ACGCTTCTTTTTCGCTGTATGGGAGCCGCTTCGCGCTATGGTCTTCAGCGCCTGGGAG
361 361.....370.....380.....390.....400.....410.....

CELEGANS 141 CCGCTACGGAACCGCCAAATCTGCGCTCGGAATCTGTTCAATGGTGTATGCGCCCGG
FLOWER 196 CTGCGTACGGGACAGCAAAGAGTGGTGTGGAGTGGCATCTATGGTGTGATGAGGCCGG
FLY 365 CTGCTTATGGCACTGCTAAGTCTGGTACCGGTATTGCTGCCATGTCAGTGTATGCGCCTG
FROG 242 CAGCCTACGGTACGCGAAGAGCGGAACAGGTATTGCCGCGATGTCGTATGAGGCCAG
DANIO 252 CTGCATACGGGACTGCTAAGAGCGGCACAGGCATGCTGTCATGTCAGTGTATGCGGCCAG
TROUT 207 CCGCCTATGGCACAGCCAAAGAGCGGCACGGCATCGCTGCCATGTCAGTGTATGCGGCCG
MOUSE 236 CCGCCTATGGCACAGCCAAAGAGCGGCACGGCATCGCAGCCATGTCAGTGTATGAGGCCAG
RAT 184 CTGCTATGGCACAGCCAAAGAGTGGCACTGGCATCGCAGCCATGTCGGTGTATGAGGCCAG
HOMO 241 CTGCTATGGCACAGCCAAAGAGCGGTACCGGCATGTCGCGCCATGTCGTGTATGCGGCCG
PIG 200 CCGCCTATGGGACGCCAAAGAGCGGCACGGCATCGCAGCCATGTCGTGTATGCGGCCAG
COW 221 CCGCCTACGGTACAGCCAAAGAGCGGCACGGCATCGCAGCCATGTCGTGTATGCGGCCAG
421 421.....430.....440.....450.....460.....470.....

CELEGANS 201 AGCTTATCATGAAGTCTGTGATTCCGGTTATTATGGCCGGTATCATCGGTATCTACGGTC
FLOWER 256 AGTTGGTGTATGAAGTCTATTGTCCCAGTTGTTATGGCTGGTGTGTTGGGTATCTATGGTT
FLY 425 AACTGATCATGAAATCCATCATTCCTGTTGGTTCATGGCCGGTATCATTGCCATTTACGGTC
FROG 302 AGTTGATATGAAGTCCATCATTCCTGTTGTTCATGGCTGGTATCATTGCCATCTATGGTC
DANIO 312 AGCTGATCATGAAGTCCATCATTCCTGTTGGTTCATGGCCGGTATCATTGCCATCTACGGCC
TROUT 267 AGCTGATCATGAAGTCCATCATTCCTGTTGGTTCATGGCCAGGTATCATGCCATCTATGGGC
MOUSE 296 AGCTGATCATGAAGTCCATCATTCCTGTTGGTTCATGGCTGGGATCATCGCCATCTACGGCC
RAT 244 AGCTGATCATGAAGTCCATCATTCCTGTTGGTTCATGGCTGGGATCATCGCCATCTACGGCC
HOMO 301 AGCAGATCATGAAGTCCATCATTCCTGTTGGTTCATGGCTGGCATCATCGCCATCTACGGCC
PIG 260 AGCTGATCATGAAGTCCATCATTCCTGTTGGTTCATGGCCAGGCATCATCGCCATCTATGGCC
COW 281 AGATGATCATGAAGTCCATCATTCCTGTTGGTTCATGGCCGGGATCATCGCCATCTATGGTC
481 481.....490.....500.....510.....520.....530.....

CELEGANS 261 TCGTCGTCGCGATGGTCTTGAA---GGGAAAAGTGACGTCGGCAAGTGCTGGTTACGAT
FLOWER 316 TGATTATGCTGTTATCATCAGTACCGGGATTAAACCCCAAGGCTAAATCCTACTACCTCT
FLY 485 TGGTGGTGGC-----TGTGCTTATTGCCGGCGCG---CTGGAAGA
FROG 362 TTGTAGTAGC-----AGTCTTATTGCAAACCTCT---CTGACGCA
DANIO 372 TGGTGGTGGC-----TGTACTATTGCCAACAAT---ATCGGTGA
TROUT 327 TGGTGGTGGC-----GGTGCTCATCGCCAACAAC---ATTTGAGA
MOUSE 356 TGGTGGTGGC-----AGTACTTATCGCTAACTCC---CTGACTGA
RAT 304 TGGTGGTGGC-----AGTACTTATCGCTAACTCC---CTGACTGA
HOMO 361 TGGTGGTGGC-----AGTCTCATCGCCAACCTCC---CTGAATGA
PIG 320 TGGTGGTGGC-----AGTCTCATCGCCAACCTCC---CTGACTGA
COW 341 TGGTGGTGGC-----AGTCTCATGCAACTCC---CTGAATGA
541 541.....550.....560.....570.....580.....590.....

CELEGANS 317 TTGAAT-----AAGGGATTGCTCACTTGGCCGCCGGACTTACGTGCG
FLOWER 376 TCG-----ACGGATATGCTCATCTCTCTTCTGGTCTTGCTTGTG
FLY 522 -GCCATCAAAGTACTCACTATAACAGGGCCTTCACTTGGGAGCCGGTCTGGCGTGG
FROG 399 AACTATCA-----CGCTATAACAGAGCTTCTTCACTTGGGTGCAGGCCTCAGTGTAG
DANIO 409 TAAAATCT-----CGCTCTACAAGAGTATCTTGCATCTGGGAGCCGGTCTGAGTGTGG
TROUT 364 GAAAGTCA-----CCCTCTACAAGAGTTTCTCCACCTGGGTGCTGGGCTGAGCGTGG
MOUSE 393 TGGCATCA-----CCCTCTACAGGAGTTTCTTCAACTGGGTGCTGGCCTGAGTGTGG
RAT 341 TGGCATCA-----CCCTCTACAGGAGTTTCTTCAACTGGGTGCTGGCCTGAGTGTGG
HOMO 398 CGACATCA-----GCCTCTACAAGAGCTTCTCCAGCTGGGCGCCGGCCTGAGCGTGG
PIG 357 AGGCATCA-----GTCTCTACAAGAGTTTCTTCACTGGGCGCTGGCCTGAGTGTGG
COW 378 CGGCATCA-----GTCTCTACAGGAGTTTCTTCACTGGGCGCAGGCTTGAAGTGTGG
601 601.....610.....620.....630.....640.....650.....

CELEGANS 360 GACTTTGTGGATTGGGAGCCGGATATGCTATCGGAATTGTTGGAGACGCCGGAGTCCGTG
FLOWER 415 GGCTAGCTGGTCTTTCAGCTGGAATGGCCATAGGTATCGTTGGCGATGCTGGTGTCAAGG
FLY 581 GCTTCTCTGGTCTGGCAGCTGGTTTTGCGATCGGCATCGTGGGAGACGCCGGTGTCCGTG
FROG 452 GCCTGAGTGGTCTAGCTGCTGGCTTTGCCATTTGGTATTGTGGGAGATGCCGGAGTCCGGG
DANIO 462 GTCTGAGCGGTCTCGCTGCCGGCTTCCGCATCGGGATCGTGGGAGACGCAGGTGTGAGAG
TROUT 417 GGCTGAGTGGGTGGCGGCTGGTTTTGCCATCGGCATTTGTGGGTGACGCAGGCGTTCGAG
MOUSE 446 GGCTGAGTGGCTGGCTGGCTTTGCCATTTGGCATCGTGGGAGATGCTGGTGTTCGGG
RAT 394 GGCTGAGTGGCCTGGCTGCTGGCTTTGCAATTGGCATTGTGGGAGATGCTGGTGTCCGGG
HOMO 451 GCCTGAGCGGCCTGGCAGCCGGCTTTGCCATCGGCATCGTGGGAGACGCAGGCGTCCGGG
PIG 410 GCCTGAGCGGGCTGGCAGCCGGCTTTGCCATCGGCATTTGTGGGCGATGCAGGCGTCCGGG
COW 431 GCCTGAGCGGGCTGGCGGCAAGGCTTCCGCATCGGCATTTGTGGGAGACGCAGGCGTCCGTG
661 661.....670.....680.....690.....700.....710.....

CELEGANS 420 GAACAGCTCAACAGCCACGTCTTTTCGTGGGAATGATCCTTATCCTTATCTTCTCTGAAG
FLOWER 475 CCAATGCTCAACAGCCAAAGCTTTTCGTGGTATGATCTTATCCTCATTTTCGCTGAAG
FLY 641 GCACAGCACAGCAGCCTAGACTGTTTCGTGGGCATGATCCTGATTCTCATCTTCGCGAAG
FROG 512 GTACAGCACAGCAGCCTCGACTATTCGTGGGAATGATCCTGATCCTCATTTTTCGCTGAAG
DANIO 522 GAACGGCCAGCAGCCGCGCTCTGTTTCGTGGGCATGATCCTCATCTTGATCTTTGCAGAGG
TROUT 477 GCACAGCTCAGCAGCCAGGCTCTTCGTGGGCATGATCCTCATCTGATCTTTGCAGAGG
MOUSE 506 GCACTGCCAGCAGCCTCGACTGTTTCGTGGGCATGATCCTGATCCTCATCTTTGCAGAGG
RAT 454 GCACTGCCAGCAGCCTCGACTGTTTCGTGGGCATGATCCTGATCCTCATCTTTGCAGAGG
HOMO 511 GCACCGCCAGCAGCCCGACTATTCGTGGGCATGATCCTGATTCTCATCTTCGCGAGG
PIG 470 GCACTGCCAGCAGCCTCGGCTCTTCGTGGGCATGATCCTCATCCTCATCTTCGCGAAG
COW 491 GCACCGCCAGCAGCCGCGGCTCTTCGTGGGCATGATCCTCATCCTCATCTTCGCGAGG
721 721.....730.....740.....750.....760.....770.....

CELEGANS 480 TCTTGGGACTCTACGGAATGATCGTGGCCCTCATCCTTGGAACTTCTTAATT-----
FLOWER 535 CTCTTGCTCTATACGGTCTCATCGTGGGATCAT-----
FLY 701 TGTTGGGTCTCTACGGCTTGATTGTGGCCATTTACCTGTACACGAAATAA--ATCAATCA
FROG 572 TCCTGGGTCTGTACGGCTTATTGTGGCTCTTATCCTGTCTACAAAATGAAGAATTCCAC
DANIO 582 TGCTGGGCTCTACGGCTGATCGTGGCCCTCATCCTGTCCACTA---AGGGTTAATCG
TROUT 537 TCCTAGGGCTCTACGGTCTTATTGTGGCTCTCATCCTCTCCACGA---A-----
MOUSE 566 TGCTTGGCCTCTACGGTCTCATCGTGGCCCTAATCCTCTCCACAA---AG---TAGTCC
RAT 514 TGCTTGGCCTCTACGGTCTCATCGTGGCCCTAATCCTCTCCACAA---AG---TAGTC-
HOMO 571 TGCTCGGCCTCTACGGTCTCATCGTGGCCCTCATCCTCTCCACAA---AG---TAGACC
PIG 530 TGCTCGGCCTCTACGGTCTCATCGTGGCCCTCATCCTCTCCACAA---AG---TAG--C
COW 551 TGCTCGGCCTCTACGGTCTCATCGTGGCCCTTATCCTCTCCACAA---AG---TAG---
781 781.....790.....800.....810.....820.....830.....

CELEGANS 532 -----CGCCTATTTTTCAGTTTTTCCACAAAAAAAAGAGAA-----A
FLOWER 569 -----TTTGTC-----
FLY 759 ATGCAA-----ACACACAACAACAGATAGACAAACGGCGCCC-----
FROG 632 CTTTTCCAGTTTCGCTGTTATCCAAA-GTCAACACTTGCAAATAATGGTTTTATCTCA
DANIO 638 TTGCTCCTATCCTCTCTT--ACACATGA-ACAAACA-----
TROUT 583 -----ATAG-AGAAAGA-----
MOUSE 619 TT-TTCCA---CCATCAG--TCACAGGA-TAG---GATGTAAGATCACCCC-TCCTCA
RAT 566 TT-TTCCA---CCACCAG--TCACAGGA-TAG---GATGTAAGATCACCCC-TCCTCA
HOMO 624 CT-CTCCGAGCCCACCAG--CCACAGAA-TAT---TATGTAAGACCACCCC-TCCTCA
PIG 581 CC-CTCCGAGCCCACCAG--ACACAGAA-TAG---GATGTAAGACCACCCC-TCCTCA
COW 601 CT-CTGCG-GGCCCCAG--CCACAGAA-TACAATTGATGTCAAGACCACCCCCTTCTCA
841 841.....850.....860.....870.....880.....890.....

CELEGANS 571 TTTCGGAGCTT-----TTCTGTAAAAAATCGGGCAA-----ATTTTGAG
FLOWER 576 -TCCCGAGCTG-----GTCAGTCCAGAGCCG-----
FLY 799 -----AGCGGTCAACAGCAGCCACATCAACATCAG-CAGCAGC-----
FROG 691 TGT--GTACAGTCATC--CT-----ACACCCTTACCCCAACTCAATATTTTC--
DANIO 671 -----CACACACAGA--CACACACACCAACAC-----
TROUT 594 -----AAGAACAGT--C-----
MOUSE 667 TTCCAGAACGAACAGC--CTGACACATGCAC--GGGCAGCTGCCCTCAGTAGTTGG--
RAT 614 TTCCAGAACGAACAGC--CTGACACATGCAC--GGGCAGCTGCCCTCAGTAGTTGG--
HOMO 675 TTCCAGAACGAACAGC--CTGACACATACGCACGGGGCCGCCGCC--CCAGTAGTTGG--
PIG 632 TTCCAGAACGAACAGC--CTGACAC-----
COW 656 TTCCACAACGAACAGC--CTGACAC--ACGCAC--GGGCAGCCGCCGCCAGTAGTCGG--
901 901.....910.....920.....930.....940.....950.....

CELEGANS 610 CTAAATTGCCGAGTTTTAAAAAATTAGTAAAAATT-----GGAAAATCTGAT
FLOWER 601 -----AATGAGAAAAGA-----
FLY 836 -----TTCAAGAGGAGCAGGTAAAATTGTGTCAAGCCAATGAGCAACGTGCA
FROG 736 -----TCCCCCACTTTACCTGCGCAGTTGTAAGT--TAGTGA CTGT-----TGTC
DANIO 696 -----AAATG-----
TROUT 605 -----
MOUSE 720 -----TC-----TTGTA AATGTGCAGT-----GTCC-TAGTGCCCAT-----TGTC
RAT 667 -----TC-----TTGTA AATGTGCAGT-----GTCCCTAGTG-CCAT-----TGTC
HOMO 730 -----TC-----TTGTACATGCGCAGT-----GTCCT-AGTGCCCAT-----CGTC
PIG 655 -----
COW 709 -----TC-----TTGTA AATGCGCAGT-----GTCCC-AGTGCCAC-----CGTC
961 961.....970.....980.....990.....1000.....1010.....

CELEGANS 657 TTTTTTTCGTGCAAAAATCTATAAA-----ATTGGGGTTTT
FLOWER 613 -----GTGCGGTTCT
FLY 883 ACATGCAACTTCCAACAAGCAAAAACCACAACAGTGCCTGTGCGGTGCAAGCCCGGCG--
FROG 780 TGTAATCCCTT-----TAGCTATTTTCATCAATTGGACTTCAGGGCATTATCAGTCCT
DANIO 701 -----
TROUT 605 -----
MOUSE 755 TGTCGCCC-----CCGCCTTGCCCTACT-----GCACCGTGCT
RAT 702 TGTTG-CC-----CCGCCTTGCCCTACT-----GCCCGTGCT
HOMO 765 TGTTTCCC-----CGGCCTTGCCCCGCCCCGCCCCG-----TGCC
PIG 655 -----
COW 744 TGTTGCCC-----CAGCCTCGCCCTGCCCCGCCCGCCCCGTTGCT
1021 1021.....1030.....1040.....1050.....1060.....1070.....

CELEGANS 695 TTGTGGATTTT-----
FLOWER 623 T-----
FLY 941 -TGGACCGTTTGTACATAGGGAGAACAACCAAAACCAGTCCTG--CCGGACTGCAGGAT
FROG 832 GACAACCTGTGGGTCGGAAGCGGCCATCGCTTCTTCAACCCTCGCC-----TGA
DANIO 701 -----ATATA-----CAACGAGTAAACTTCACCGCCTG-----AATAA
TROUT 605 -----CTTC-----
MOUSE 789 GTGGACATACG-----GGCCCACTCATCTCCCACCCAGGCCCTGAC--CAGTGA
RAT 735 GTGGACATCTG-----GGCCCACTCATCTCCCACCCAGGCCCTGAC--CAGTGA
HOMO 800 GTGGACATCTG-----GGCCCACTCATC-GCCCTCC-----A
PIG 655 -----
COW 784 GTGGACATCTG-----GGCCCACTCATC-CCCACCCCGG-CCCTGAC--CAGTGA
1081 1081.....1090.....1100.....1110.....1120.....1130.....

CELEGANS 706 -----TCCCGTAAAAAT-----CGATAAAATT-----CTAGAT
FLOWER 624 -----GAAGT-----CCGCATGATT-----C-----T
FLY 997 CTCGCCACGCACTGCCA----TTGGTGGCCGCGGATTTGCACCTGTTGTTTCAAGTTTAC
FROG 881 CTCCTCCTTCTGCGTACAGTTTTTTTTCATTCAT-----CCGATTGTTTCCGAACA
DANIO 734 CGACGAGAGGAATTTTTCG-----TGCATGCGT-----G-----TATCGT-GAG
TROUT 609 -----TGTTCA-----TCCATCCGT-----G-----TACGTT-GAG
MOUSE 837 CGAAGTCAGCCTCTGGTTAC-----CCACCCAT-----C-----GCCCTAGAG
RAT 783 CGATTTTCAAGCCTCTGGTAC-----CCACCCAT-----C-----GCCCTAGAG
HOMO 832 GGCCCCCGCGCC--CCAC-----CCC-----CTAGAG
PIG 655 -----
COW 830 GGACGCCGCGCTC--CCGC-----CCGCGCCAT-----C-----TGCCCTAGAG
1141 1141.....1150.....1160.....1170.....1180.....1190.....

CELEGANS 734 TTTTTC CGATT TTTCTCGCATAAAAATAGATCAAATTCTTTT TTTTTC CAAACTATCCG--
FLOWER 641 TTCTTCC CTTTTC-----
FLY 1053 --CT--CGATT CGCT---GGC-GCGTGGT-TTAGCTTAGTTATTTTCCGTT-----
FROG 936 AGTT--CCATGT-----ATAAATATGATCCTAGAAGCTGTAATTTCCCTTTACACTTCA
DANIO 773 TGTG--CTGTTT GCG---ATGAGTGAGC-GTGAGATTGATCTT-----C-----CT
TROUT 634 TCAA--CACTGCG-----TCAT-----C-----CA
MOUSE 876 TGCT--CC-TGTG-T---ATAAGAATGA-ACTAGAGTTGTCAT-----TTTTCTCTTCA
RAT 822 TGCG--CCTTGTG-T---ATAAGAATGA-ATTAGAGTTGTCAT-----TTTTCTCTTCA
HOMO 858 TGCT--C--TGTG-T---ATGCGGATGA-TTTAGAATTGTCA-----TTT-CTCTTTA
PIG 655 -----
COW 867 TGCT--C--TGTG-T---ATAAGGATGA-ATTAGAGTTGTC-----TTTTCTCTTCA
1201 1201.....1210.....1220.....1230.....1240.....1250.....

CELEGANS 792 -----TGAAAATCGATAAAAATACCTGTTTTTCCGTTAAAAATTAAT-----AAAAA
FLOWER 655 -----ACCGTCT-----CTTCAT-----AGAGC
FLY 1095 -----CAA-----AATCA--GTCTTAAACAC
FROG 988 ATGTTTTATTTATATAAAAATGTATTG-----TTCATACTTCTCAAAAAA
DANIO 813 CTCT-----GTGTA-----
TROUT 652 TTCC-----ATATATAAAACACTA-----
MOUSE 922 CT-GGATGTTTTATTTATAAAAAGATTTGACCT-----ATTCATGCGTCT-----
RAT 869 CT-GGATGTTTTATTTATAAAAAGATTTGACCT-----ATTCATGTGTCT-----
HOMO 901 CT-GGATGTTTTATTTAT-AAAGATCTGGCCT-----GTTCTGCGTCT-----
PIG 655 -----
COW 911 CTCGGATGTTTTATTTAT-AAAGATTTGACCT-----GTTCATACTGCT-----
1261 1261.....1270.....1280.....1290.....1300.....1310.....

CELEGANS 838 CCTGATTTT---TCCTGTTTTTCATGAAAAATTACAAAAAATCGATAAAATTCTGTTGGT
FLOWER 674 CGGGATCTTCTTATATTGTTGTCA-----GGT
FLY 1114 GAGGAAAA-----CAATTTGCAATTAAGTTC-----
FROG 1033 AAGAGCCAGCT-----TTTTTT-----TCCCCCTCCCTTCTGTAACTCTCGGT
DANIO 822 -----AAGAAGCC-----
TROUT 671 -----AGAAATAAAGAAC-----
MOUSE 964 GTGGAGCAGCT-----CCTGTC-----T-CCCAACTATATAGTAATC-----
RAT 911 GTGGAGCAGC-----CCTGTC-----T-CCCAACTCTATAGTAATC-----
HOMO 942 GCGGAGCGGCC-----CTTGTCT-----T-CCCACTATCTA-TAAC-----
PIG 655 -----
COW 953 GTGGAGCAGCT-----CTCGTC-----T-CCCAACTCTATAGTAAC-----
1321 1321.....1330.....1340.....1350.....1360.....1370.....

CELEGANS 894 TTTTTTGTGATTTTTCCGTA AAAATCGATAAAAATTCGTGGTTTTTTTT---TGTGG-ATT
FLOWER 702 T-----AGTAGAGAGACACAGTGGTTTTGTTTCTTGTGGCATG
FLY 1140 -----ATAAA-----
FROG 1077 CTCTTTGCTGCGT-----ATATATTTAATCTTTAGCTGT-ATCTGTGTGG---
DANIO 830 -----CGATG---TGTGTGTG---
TROUT 685 -----
MOUSE 1000 -----ATTAGTAGACTGT---TG---CCTTGTGG---
RAT 946 -----ATTAGTAGACTGT---TG---CCTTGTGG---
HOMO 977 -----TTAGCTAGAGTGTCTG-----CCTTGTG---
PIG 655 -----
COW 988 -----TTAGGTAGACTGTTGTTG---CGTTGTGC---
1381 1381.....1390.....1400.....1410.....1420.....1430.....

CELEGANS 950 TTTTCGTGAAAAATCGATAAAAATTTGATCAAACCTTTTTTTTTTCCAAATTTTCTCTGAAA
FLOWER 740 TCTTCTCGAA-----
FLY 1145 -----
FROG 1121 -----GATTTCTTGTAAAGTGTGCTGAGA
DANIO 843 -----TTTT--TCTTTCCCCCTGTAA
TROUT 685 -----A
MOUSE 1023 -----GGTT--CCTGTTG---CTGAGA
RAT 969 -----GGTT--CCTGTTG---CTGAGA
HOMO 999 -----GGTT--CCTGTTG---CTGAGA
PIG 655 -----
COW 1014 -----GGTT--ACCGTTTACCCTGAGA
1441 1441.....1450.....1460.....1470.....1480.....1490.....

CELEGANS 1010 ATC-----GATAAAATACCAGTTTTTTTTCTGTTTTTTCGCTGAAAATTACCAAAAAAT-C
 FLOWER 750 -----ACAAAAACCA-C
 FLY 1145 -----GATGTAATA-----ATTATGATTT--TTGCTATATCA--
 FROG 1143 ATTCCCTGGATGTAATA-----ATTTGGATTAAGATTGCTGTATTGTTC
 DANIO 863 ATGC-----GCTG-----
 TROUT 686 AT-----
 MOUSE 1040 CTCC-----TTGGA-----
 RAT 986 CTCC-----TTGGA-----
 HOMO 1016 CTTC-----CTGA-----
 PIG 655 -----
 COW 1034 CCG-----TTGGA-----
 1501 1501.....1510.....1520.....1530.....1540.....1550.....

CELEGANS 1064 ACCTAATTACCGCTCAAAAACCAAATTTTCCAATTTCCCGCCTAAAAATCGATAATTC
 FLOWER 761 ACATCATCA----TCAAAAGC-----GTTGTTCG-----
 FLY 1175 -----AGAAATCCTGCTCTT-----TTACTTTTTATTTTGC
 FROG 1187 AGATATT-----GGAGTGAGGTCTCTCTT-----TATAGTTATATATT--
 DANIO 871 -----T-----GTAGCTATCGCTCTCGT-----
 TROUT 688 -----T-----GTAG-----
 MOUSE 1049 -----T-----GGAGCCACCCTTCCC-----
 RAT 995 -----T-----GGAGCCACCCTGCC-----
 HOMO 1025 -----T-----GGAGCCGCC--CTC-----
 PIG 655 -----
 COW 1043 -----T-----GGAACCACC--TCTT-----
 1561 1561.....1570.....1580.....1590.....1600.....1610.....

CELEGANS 1124 ACTCAATTTTCCCGATTTTTCACCGATTTTCTCCGGAATTTCTCGTTTTTTTCCATTTT
 FLOWER 787 -----TTTTACC-----C
 FLY 1206 GCTCCA-----CAATTTTGTGTCTCTTTGTTATTTGTTTTT-T--
 FROG 1225 -----TTTTGTTTTAAT--
 DANIO 889 -----
 TROUT 693 -----
 MOUSE 1065 -----
 RAT 1011 -----
 HOMO 1038 -----
 PIG 655 -----
 COW 1057 -----
 1621 1621.....1630.....1640.....1650.....1660.....1670.....

CELEGANS 1184 TTCTCCAATTTTTCAGTCTAAACCGCTGTGATTTTTTTTCTA-----TAACATTCTATA
 FLOWER 796 TTCTGTTATGTTTGTAAATGAGACCGTTGCGGATTCTTCTGTTCCAGTAAGATAACT--
 FLY 1244 -----CCATTATTATTATTA
 FROG 1236 -----ACAAAAAAAATTA
 DANIO 889 -----
 TROUT 693 -----
 MOUSE 1065 -----
 RAT 1011 -----
 HOMO 1038 -----
 PIG 655 -----
 COW 1057 -----
 1681 1681.....1690.....1700.....1710.....1720.....1730.....

CELEGANS 1239 TTCTCCTAGGAGTTTCTCTTTTTTTTTTAATCTCACACAAAATTTCTATATTTTCCCTAG
 FLOWER 853 -----GTGGGAG-----ACACCCTATTTATATCGTTT-----
 FLY 1261 T-----AATGTTTA-----
 FROG 1253 TTC-----CAGTCTGTGTTAACTGGTGA--CCAGAACAAAATTTTAAAAGCAAACCTG
 DANIO 889 -----C--CCGT-----GTGTG
 TROUT 693 -----A--GCAT-----GCCTT
 MOUSE 1065 -----CCTG-----CCCTG
 RAT 1011 -----CCAG-----CCCTG
 HOMO 1038 -----ACCG-----CC--
 PIG 655 -----
 COW 1057 -----GCAG-----CCCTG
 1741 1741.....1750.....1760.....1770.....1780.....1790.....

CELEGANS 1299 TTTT-----TTTCGCT
 FLOWER 880 ATCA-----TTTCCT
 FLY 1270 -----GTGTAT
 FROG 1305 CACATGTATGGTAAAGTTACATCTGCTGCTGGGGTTCAGTTA-----CAGATTTT-CA
 DANIO 899 TGT-----
 TROUT 703 TAC-----
 MOUSE 1074 AACAGCCAGGGTGGAGGATAGAGTGCTACTGCTCCTCAGAGCTGGCTCCCAGCTGTGTCC
 RAT 1020 AACAGCCGGGGGGGGTAGAGAGT-----TCCTCAGAGCTGGCTCCCAGCTGTGTCC
 HOMO 1044 -----GGCCCGTGGCCCTGCGCGGAGCTGTGTCC
 PIG 655 -----
 COW 1066 GTTCGC-----GGCCAGTGTGAC-GGGCCGTGGCGTGGTGCCGCTCCGTGTCC
 1801 1801.....1810.....1820.....1830.....1840.....1850.....

CELEGANS 1310 TCAAAAAATCCTC-----AACAAATGAGGAAAAATCCCCCAATTTTCTTGTGA
 FLOWER 891 AATAAAATTC-----AGAAAACTC-----
 FLY 1276 ATGTAAAGTTCGTT-----AAC-----
 FROG 1357 AATAAACATCTCCAATCC-----A-----
 DANIO 902 -----
 TROUT 706 -----
 MOUSE 1134 AATAAAAGTTCTCGGATGTG-----
 RAT 1072 AATAAAAGTTC-----
 HOMO 1074 AAT-AAAGTTCTTGATGTGAAAAAAAAAAAAAAAAAAAAA-----
 PIG 655 -----
 COW 1115 AAT-AAAGCTCTCAGATGTG-----
 1861 1861.....1870.....1880.....1890.....1900.....1910.....

CELEGANS 1359 ATTTTCTCTCGTTTCTATCTTAAATTGTGAATAATAAATTTCA
 FLOWER -----
 FLY 1294 -----AAAAAGAAAAAATT
 FROG 1377 -----AAAAAAAAAAAAA
 DANIO 902 -----G
 TROUT 706 -----G
 MOUSE -----
 RAT -----
 HOMO 1113 -----AAAAAAAAAAAAA
 PIG 655 -----ACA
 COW -----
 1921 1921.....1930.....1940.....1950.....1960