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# STOCKHOLM 1.0

Homo_sapiens.1                  GGUUG.ACCAGAGGGC...............CCCGGGCGCC.............................UCC..GU..............GUGUGGCUGCGAUGGUGGCG.UUUUUGGGGACAGGUGUCCGU..GUCCGCGCGUcGCCUGGGCCAGC.GGCGU.GGUCG.GUG...aCGCGACCUC.CCG.GCCCC..GGGGGAGGUAUAUCUUCGCCCGAGUCGGC.AUUUUGGGCCCCCGGGUUAUUGCUGA..CAGCCU.GU
Homo_sapiens.2                  GGUUG.ACCAGAGGGC...............CCCGGGCGCC.............................UCC..GU..............GUGUGGCUGCGAUGGUGGCG.UUUUUGGGGACAGGUGUCCGU..GUCCGCGCGUcGCCUGGGCCGGC.GGCGU.GGUCG.GUG...aCGCGACCUC.CCG.GCCCC..GGGGGAGGUAUAUCUUCGCUCCGAGUCGGC.AUUUUGGGCCGCCGGGUUAUUGCUGA..CAGCCU.GU
Pan_troglodytes.1               GAUCG.ACCAGAGGGC...............CCUGGGUGCC.............................UCU..GU..............GUCUGGCUGUGAUGGUGGUU.AUUUUGGGACGGAUGCCCGU..GUUGUGGUU.UCCUGGUCCAGC.GGCGU.CGUCG.GUG...aCUCAAUCUC.CUG.CCCCC..GGGGAG.GUAUAUCUUUCACUCCGAGUCGGC.AUUUUGGGCCACCAGCUUAUUGUUGA..CACGUU.GU
Pan_troglodytes.2               GGUCG.ACCAGAGGGU...............CCCGGGUGCC.............................UCU..GU..............GUCUGGCUGCAAUGGUGACG.UUUUUGGACACAGAUGUCCGU..GUCGUGAGUUUCCUGGGCCAGC.AGCGU.GGUCG.GUG...aCUCAACCUC.AUG.CCCCC..GGUGGAGGUAUAUCUUUCACUCCGAGUCGGC.AUUCUGGGCCAGCGGGUUGUUGCUGA..CAUGUU.CU
Pan_troglodytes.3               GGUCG.ACCAGAGGGU...............CCCGGGUGCC.............................UCU..GU..............GUCUGGCUGCAAUGGUGACA.UUUUUGGACACAGAUGUCCGU..GUCGUGAGUUUCCUGGGCCAGC.AGCGU.GGUCG.GUG...aCUCAACCUCaUGC.CCCCG..GUGGAGGUAUAAUCUUUCACUCCGAGUCGGC.AUUCUGGGCCACGCGGGUUGUUGCUGA..CAUGUU.CU
Pan_troglodytes.4               GGUCA.ACCAGAGGGC...............CCUGGGUGCC.............................UCUaUG..............UCUGGCUGCCAUGGUGCCUUUUUGGGAAAGAGUGCCAG.GUCACGCGU.UUCUGCUCAGGU.GGUGU.GGUCA.CUG...ACUCGACAG.CCCUCCACC..AGGCAAGGUAUAUCUUUCACUCUGUGUCGACAUUUUGGGCCACCAGGUUGUUGCUGA..CAGCCU.GC
Pongo_pygmaeus                  GUUUA.ACCAGUG.CU...............CCAAGAAGU.............................UCCaAG..............GCUUACCGCUAUGAGGUCA.UCCUGGGGCACCAUGGGCAGGuaGACACUAAUuCCUGAAG...GC.AACCU.GGCCA.GUG...AAUCAUUCU.UCC.UGGCC..AAAGCAGU.AUUUCUUUUACAgaaucauau...............gaacAGUGCUGA..UACACU.AA
Macaca_mulatta                  AGUUG.ACCAGAGGCC...............CCUGGGCUGC.............................UCCaUG..............UCUGGCUGCCAUGGUGGAC..UUUUUGGAAACAGGUAUCUGG..GUCACGUGU.UUCUGAGUCGGU.GGCGU.GGUUC.GUG...ACUCAACAC.CCUgCCCCU..AGGCAAGGUAUGUCUUUCAUUCGAAUCAGC.AUUUUGGGACACCAGGUUGUUGCCAA..CAGGCU.GU
Callithrix_jacchus.1            GGUCG.ACCAGUCAGC...............CCUGGGUGCC.............................UCCaUG..............UCUGGCUGUGAUGGUGGCC..AUUUUGGGAGAGAUGUCCGU..CUUGUGCAU.UUCUGAGUCGG..CCUGU.GGCCG.GUG...aCUAGACCCC.UGC.CCCCU..GGGCGGGGUAUAUCUUUCACUCUUAGUUGUC.AUUUUGGGCCAUCAGGUUAUUGCUGA..CAUGCU.GU
Callithrix_jacchus.2            UGUUG.ACCAGACGGC...............CCUGGGUGCC.............................UUUaUG..............UCUGGCUGUAAUGGUGGCC.AUUUUGGGAAAGAUAUCUGU..CUCUGCAU.UUCUGAGUUGG..CCUGU.GGCCG.GUG...aCUAGACCCC.UGU.CCCCU..GUGUAGGGUUAUCUUUCACUCUCGAGUUGUC.AUUUUGGGCCACCGGCUAUUGCUGA..CAUGCA.GU
Callithrix_jacchus.3            GGUCG.ACCAGACAGC...............CCUGGGUGCC.............................UUU..GU..............GUCCGGCUGUGAUUAUGGUC.AUUUUGGGGAGAGAUGUGUGU..CUCGCGCAUuUCCUGUGUU....CCUGU.GGCUG.GUAacuaAACCUCCU...GC.CCCCU..GGGCGGGGUAUAUCUUUCACUCGAGUUGUC.AUUUUGGGCUGCAGAGUUAUGUCUGA..CACUCU.GU
Tarsius_syrichta                GGUCG.ACCAGAGGGC...............CCCGGGGGCC.............................UCG..GU..............GUCUGCCCGCGAUGGGGGCU.CUGCUGGGACCCGUGGGCGGA..GCCGUCCCUuUCGGGGGGCCGC.CUCGU.GAUCG.GGG...ACGCCUCCCC.CGC.UCGCG..GGCG.CGUCGUUUUCCUCGCCGUGGCCUUGC.GUUUUGGGCCUCCGGGUGAGUGCUGA..CACGCU.GU
Otolemus_garnetti               GGUCG.ACCAGGCGGC...............CCUACCUGCC.............................UCC..GU..............GGUCGCCUGCUCUGGGGACU.UGUUUGGGACAGGUGGCCGU..GUCGCCUGU.UCGGGUGGUG...GGCGU.GGUCC.GGA...gCGUCGUCCCgCGU.UCCCG..GGUGCGGCCUUUCCUGUCGUUUCGGUUUGUC.GUCUUGUGCCUCCAGGUUAGUGCUGA..CAGCCU.GU
Microcebus_murinus              GGUUG.ACCAGAUGUC...............CGUAAGUGC.............................UCC..GU..............GUCUGUCGGCACUGGGGACG.UGUU.GGGGAGCGGUUGGCGCC..GUCUGGGUU.GCUGGGGUCG...GGCGU.GGUCGaGCG...GCUCUUCCG.CGG..CCCG..CGCGCGGUGUUUCCAUCGCCUCGGAUCGUC.AUCUUCGCCUCGAGGUAGUGCUGA..CAGCCU.GU
Mus_musculus                    GAUCA.ACCAGUGCU................CCUUUGAGG.............................UUA..G..............UUACUUGCUC.AUGGGGA....UAUUUUGGGAUACUUUACAGGGCACCACUU.CCAGGUGUUC...CAUGU.GGCCA.GUGa.aUUUGCUCCC.UGG.ACCUG..UUAUUGUUUGGAUCUUUGC...AAUCUGUCCAUGUUGUACCAGGGGAUCCAUGCUGA..CACACU.GU
Rattus_norvegicus               GGUCG.ACCAGUUGUucc.............UUUGCGG.............................UCC.GGU..............UCUCUUUCUACAUGGGGACC..UCUUGGGGACAGUCACCGA..ACAUGACUU.CCAGACGUUC...CGUGU.GGCCU.GUCa.uGUUUAUCCC.UGU.GUCUU..UUACACUUUUCAUCUUUGC...UAUCUGUCCUUAUUGUACCUGGAGAUAUAUGCUGA..CAGCCU.GU
Dipodomys_ordii                 GGUUG.ACCAGCUGUC...............CCUGAGAGU.............................UCC..GU..............GUCUGGCUCUGUUGGGGACG.UGUUGGGGACAGGUGUCCCC..GAUGUGGUU.UCCGAGGG.GUC.CCUGU.CGCCA.GCG...AGUUGUCGC.CCC.UGCCU..GACG.ACCUGGUUUGGCGUGGUGACGUGAGGAUUUUGUACCUGCAGGAGGGUGCUGG..CAUGCC.GU
Spermophilus_tridecemlineatus   GGUUG.ACCAGUUGUC...............CCUAGGGGC.............................UCU..G...............GAUCUCGGUGAUGGGCUCG.AUUCCCCGGUCCGCCGACCGU..GACUCCCUU.CGGGGAAGGCG.GCAGU.GGUGA.GUG...aACUGUUCCC.CAU.UGCCU..CGGUCGCGUUGUCUUGGCCC..GAGUUGGCCGUUUUCUGCCAUCGGGUAGGUGCUGA..CAGGGU.GU
Cavia_porcellus                 GGUCG.ACCAGUUGGC...............CCUGGGUGC.............................UCC..GC..............CGUCUGCAGCAUUGGGGUCG.UCUGAGGGGCCAGGUCCCGG..CGCCUUGCU.UUGGAGGGCG...GGUGU.GAUCA.GGG...GAUUGUCCC.CUC.UGUCA..UGUG.UCACAGAUCUUUUGGCUAGAGGUGGGCGUUUUGUGUCCGCAGGCAUAUGCUGA..CACGCU.GU
Ochotona_princeps.1             GGUUGgACCAGAGGGC...............ACAGGAGCA.............................UCC...................CCGGUGGCCGAUGGCUGUG.UUUUGGGGACCUGGGGCCCCG..GGCCCCCAU..CUGAGGGGCG..GCUGU.GUCCC.AUA...GGUUGUCCC.UGU.UGUCCccUGGAAGGGCAUUUCUGCACCCUGCAGUUGUC.AUUUUGGAUCUGCAGGUAGGUGCUGA..CACGCU.GU
Ochotona_princeps.2             GGUUG.ACCAGUUGGC...............CACAGGAGC.............................aU....G...............CCCUGUGGGCGAUGGCUGUUUUUGGGGACUUG.UGACCCG..GGCCCCCAU.CUGAGGGGCG...GCUGU.GUCCC.AUA...GGUUGUCCC.UGU.UGUCCccUGGAAGGGCAUUUCUGCACCU.GCAGUUGUC.AUUUUGGAUCUGCAGGUAGGUGCUGA..CACGCU.GU
Oryctolagus_cuniculus           GGUUG.ACCAGUGGGC...............CAGAGGAGU.............................gUC...................UCUAACAGAGAUGGGUGGC.AUUUUGGGGACAAGUGACCGG..GUCCCCAAGcUCAGAGGU.G...GCUGU.GUCCA.GUG...CAUCAGCCC.UGU.GUCCUgcCGCGUGGACAUUUUUAUACUU.GGAGUUUGG.GUUUUGGACCUCCAGGUAGGUGCUGA..CACGCU.GU
Tupaia_belangeri.1              GGUCG.ACCAGAUGGG...............CCUGUGGGC.............................UCG.GGG..............GUGCUUCCGCUGUGGGGCGA.CA.UUGGAGUCCGUCGGACCGG..GAGGAGAUUcGCGCAGGCAGCgGGCGU.GGUCG.GUG...GAUCGUCCC.UGC.UUCCC..AGAGAAGUCCUUCCCUUGGCCUGGAUUUGGG.AUUU.AGUCACCAGAUAGGUGCUGA..CACGCU.UU
Tupaia_belangeri.2              GGUCG.ACCAGAUGGC...............CCCGCGGGC.............................UCG.GGG..............GUGCAUCCGCGGUGGGGCGA.CG.UUGAGUCCGGGGGCCGG..GAUGGGAUUcGCGCGUGGGCG...GGCAU.GGUUG.GUG...GAUCGUCCC.CGC.UUCCC..GGCGAGGUCCUUCCCUCGGCCU.GUGAUCUGGGAUUU.GGUUCCCCAGAUAGGUGCUGA..CACGCU.GU
Canis_familiaris.1              GGUUG.ACCAGAUGGC...............CCUGGGCGC.............................UCUaGG...............AGUUGAGGUGAUGGGGCAG.GCCCUGGGGCCAG.UGGCCGG...CUACAGUC.CCAGGAG..GUC.ACAGU.GGCCU.GUG...GCUUGUCCC.UGC.CAGCC..AGCGCGGCUAUUUUCUUGCUU..GAAAUGAACAUUUUUUGUUGCCAGGUG.GUGCUGA..CAUGUA.UU
Canis_familiaris.2              GGCCG.ACCAGAAAGC...............CCUGGGGCGg.............gggcUCCgUGGGGug.....ggggugGGGGGGGCGCCGUGGGGCAG.GUUUUGGGUACAGUUGGCCGU..GUCACGGUC.CCGGGAG..GUC.GCGGU.GACCU.GUG...GCUGGUCCC.CGC.CGGCA..GGCGCGGUUAUUUUCUUGCCC..GAAAUGAACAUUUUUUGUUGCCAGGUAGGUGCUGA..CAGGUU.GU
Canis_familiaris.3              GGCCG.ACCAGAAAGC...............CCUGGGGGC.............................UCCgUGGGGug.....ggggugGGGGGGGCGCCGUGGGGCAG.GUUUUGGGUACAGUUGGCCGU..GUCACGGUC.CCGGGAG..GUC.GCGGU.GACCU.GUG...GCUGGUCCC.CGC.CGGCA..GGCGCGGUUAUUUUCUUGCCC..GAAAUGAACAUUUUUUGUUGCCAGGUAGGUGCUGA..CAGGUU.GU
Felis_catus.1                   GGUCG.ACCAGAUGGcCC.............CCGGGGACU.............................UCC.GGGGGggag..gugguuGCUCGGCGGCAAUGGGAAGA.UGCUUGGGGCUCG.UGGCCGG..GCCAGGGUC.CCAGAAG..GUC.CCAGU.GACCU.GUG...GCUCGGCCC.CGC.CUGCC..AACGCGGUUAUUUUUGUCUCCUGAAAGAGGUGCUUU.UUGCUGCCAGGUAGGUGCUGA..CACGUU.CU
Felis_catus.2                   GGUUG.ACCAGAUGUU...............CUAAAGACC.............................UCCaAG...............GACUGAAAUCCAUGGGAUCA.UCCCAGGGCCCCG.UGGUUGG..ACCCCUGUA.GCAGGUA..GGC.AGCCU.AGCCA.GUG...AGUUGCUCC.CAG.GGACC..AGCAAA.CUAUUUCCUUCGUAAGAUCACGUGAGAUU.GAGCCAGCAGAAUGGUGCUCA..CAUGAU.UU
Vicugna_pacos                   GGUCG.AUCAGAUGGGC..............CCCGAGAGC.............................UUG..GG..............GUCUGCCAUUAAUGGGGGUA.GGGUUGGGGCGAGGUGGCU.GG..GACCGAGAU.CCGGGGGCCCCC.CCUGC.AAAUC.GUG...GACCCGACC.CGU.UUCCG..GGCGCUGUCAUUUUUUCUGUC..GUGUCGGGCAUUUUUGUGCCAGCAGAUAGGUGCUGA..CACGGU.CU
Tursiops_truncatus              GGUCG.ACCAGAUGGcCC.............CGAGAAAGC.............................UCG..GG..............GGCUGCUGUGGAGAUGGGGAAG.UG.UUGGGGACAGGUAGCGCGG.GCCCAGGGUC.CCGGGGAGCCCC.CCCGA.GGUUC.GUG...GAUGGGCCC.CGC.UGCCG..GGCGCCGUGAUUUUUUCGCCUGAAAUGGGC.CUUUUUUACCACCAGAUAGGUGCUGA..CACGGU.CU
Bos_taurus.1                    GGUCG.ACCAGAUGAcucccccccucccccgCCACGAGAGC.............................UCG..GG..............GCCUGGUGUUUAUGGGGUAG.CG.CUGGGGACAGGUGGCCUG..GCCAAGGUU.CCGGGGUUCCUC.CAUGC.GAGUC.GUG...GAUGGGCCC.CGC.UGUUG..GCUGCUGUCGUUUCAUUGCCCUUAACGGGCCUUUUUUUUACCACCAGAUAAGUGCUGA..CAUGGU.CU
Bos_taurus.2                    GGUCC.ACCAUAUGGC...............CAUGAGAGC.............................UCU..GG..............GGCUGGUGGUAAUGGGGUAG.UA.CUGGGAACCUGUUGCCAG..AGUGAGGUC.CCAGGGG..CCC.CUUGC.AAUUU.GUG...GAUAGACCG.GAU.UGCUG..GGCA.CAGUAAUUUUUCACCCAAAGUGAGC.AAUUUUUGCUGCCGGGUAGGUGUUGG..CUUGGU.GU
Sus_scrofa                      GGUUG.ACCAGAUGGC...............UCUGAGAGC.............................GCU..GG..............GGCUGGCGACUCUAGGGCAG.GGCUCGGGGACAAGUGUCCGG..AUGGGGUU..CCGGGGAUACC.CCCAC.GUCCU.GUG...GGUGGGCCC.CGC.UGCUG..GGCAUGGACAUUUUUCGCGGCCGAAUACGC.CUUUUCUGGUCACCAGGUAGAUGCUGA..CAGGAU.CC
Equus_caballus                  GGUCG.ACCAGAUGGC...............CCCGGGAGC.............................UCC..GG..............GCCUGGUGGCGAUGGGGUCG.UGCUUGGGGUCUGGUGGCCGU..GGCCGUGAU.CCAGGGGUUCCC.CUCGU.GAUCC.GUG...GGUGGGCCC.CGU.CUCCG..GGCG.GGGCGAUCUUGCCCC.UGAAUGGGUGGUUUUGUGCGCCAGAUAAGUGCUGA..CAGGCU.CU
Myotis_lucifigus                GGUUG.ACCAGAUAGC...............CCCG..CCC.............................UCU...U..............CUUUGGUGGCGAUGGGGUCC.CGUGGGGCUCCCGGUGGCCGC..GACUCGCUU.CCGGCGCUCC..GGCGU.GAUCU.GUAg.aCAGAGGCCCC.CGU.CCCCG..GGCACCGUCCAUGUUAUGCCU.AAAGUUGGC.AUUUUGUACCACGAGAUGACUGUGGA..CAGGCU.GU
Pteropus_vampyrus               GGUCG.ACCAGGUGCuC..............UCCGGGAaaaaaaaaauugacaaagucucuccccccccccUCC..GG..............UCCCAGCGCCGAUGGGGUCG.UG.CUGGGGCCCGA..GCCUCGGUU.CC.GAGGAGGCC.GCCGA.GAUCC.GCG...GAUAAGCCC.CGC.UGAGG..GGCGCGGACAUUCUUUCGGCC.GAUCUUGGCGGUUU.GUGCCACCAGAUAGGUGUCGA..CGGGCU.GC
Erinaceus_europaeus             GGUUG.AUGAGAUGUGC..............CUCGCGAGC.............................UCG..GG..............GUCUAGCGGGGAUGGUAUGC.UGCCUGGUGGCAGGUGGGCCGG..GGUGCAGAA.CCGAGAGUCCG..GCCUU.GAGGU.GUG...UCUCUACCC.CGG.AUGAG..GGCGUGACCAUGUCUAGUGCCUGACGUCUGCAAACU.CUGCCAGCAGAUAGGUGCCGA..CAGGCU.CU
Sorex_araneus                   GGUUG.ACCAGUUGUC...............CCCUGGAGU.............................UCC..GG..............GACUCUGGGCGAUGGGGGUG.UCCCCAGGUGCG.GGUGGCCGG..GUCGCUGUU.CCAGAGGGUGCC.GCGGG.AGGGA.GCA...GAUCGGUCC.CG..CUCCG..GGCAAGGGUCCUUUUCCGGUGUGACGGGGCCGGAUU.GGACCGCGAGAUGUACGCUGA..CAGGCU.CU
Loxodonta_africana              GGUUG.ACCAGAGGAU...............CCCGGGAGC.............................UCCg.GGgggggg...cggggCGCUGGGGGCCAUGGGGUCG.CGCUACGGACCGA.UGGCCGG..GCCGCAGUU.CCGGGGG..CUC.GCCGU.GGGGA.GCG...GGCCCCUCC.CGC.CGCGG..GGCGUG.GCUUUCUCUCGCC.CAAACGGGCGAUUU.GGGCCACCAGAUUGGUGCUGA..CAGCCU.CU
Echinops_telfairi               GGUUG.ACCAGAGUGU...............CCCAGGACC.............................UCC..GG..............GAGUGAGAGCUAUGGGGUCG.CGUGGCCAGGCCUUUAGUCGA..AAGCGGUU.CCGGGGGUGC..CCCGU.GGGGA.GAA..gCCGUCGCCC.CGU.CUUCU..GGCGU.GGUAUUUCUUUCGCU.GUAAUUGGCCAUUUUGGGCCACCAGAUUGGUGUUGA..CAGGCU.CC
Procavia_capensis               GGUCG.ACCAGAGGGC...............CCCGGGAGC.............................UCG..GG..............GGCCGGGGGCCAUGGGGUCG.UCGUGCGGCCCGAC.GGCCGG..GCCGCGGUU.CCAGGUGAUCGC.CUCUCgGGUCG.GCG...ACUCUUUCC.CGC.CACGG..GGUG.CGGUGUUCUUUGGCC.GAAGCUGGGGAUUUUGGGCCACCAGGUAGGUGCGAggCAUCUCUCC
Dasypus_novemcinctus            GGUUG.ACCAGAUGGC...............CCCAGGAGC.............................UCC..GG..............GACAUGAGGCUAUGGGGUCG.UCCUUGGGCC.CAGUGGCCGC..AUGACGGCUU.CCGGGAG..GUC.GGUGU.GACCA.GCG...GAUUGGCCC.CGU.UUCCG..GGCA..GGGCUUGGUCCCGUUUCCGCCAAACAAAGUGGGC.GUUUUGGGCGCCAGGUUAGUGGUGA..CAGGCU.CU
Choloepus_hoffmani              GGUUG.ACCAGAUGGU...............CCCAGGAGU.............................CCU.GGGagauguggcccuggGAGAUGUGGCCCUGGGAAAG.UCAUUUGGCUGAU.GGCCAC.GGGCUCUU.CCGGGAGGUG...GCCGU.GGUCA.AUG...GGUCGGCCC.CGC.UUCUG..AGCAAGGU.CCAUUUGUCACCAACAAUGGGC.AUUUUGGGCCACCAGAUUAGUGGUGA..CAGGCU.CU
pRNA                            |----A-box-----|.....................................|=================================pRNA=================================|.....................................|....b-box......|
#-GC SS_cons                    [[[[[.[[[[[[[[[[...............<..<<<___.....................>>>..>,.....................,,,,,,,,,,,(((((,,,,<<<<____>>>><<<<<<_..____>>>...>>>,,,,,,,,,,,
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