

Additional file 11: Figure S3. Aligned nucleotide sequences of the 16S rRNA gene in mt genomes of 250 fishes.

See the legend of Additional file 10 for details.

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Scca      -----ACCTTAA-AGCTAGCCTA-----ACCCACCATT-----AAATAA
Muma      -----ACCTTAA-AACTAGCCTATATACCAATCTAACCAG-----ACCTTA
Erca      -----GCATTAA-AGCTAGCCTAAC--TATGTAT--AACC-----GTAT
Pose      -----GCATTAT-AGCTA-----GCCTGACCA--TGCATC-----TAA
Actr      -----GCTAAAT-AGCTAGCCTCACC---ACACACATCAC-----AAATGA
Scal      -----GCTAAAT-AGCTAGCCTCA---CCACACACGTCAC-----AAATGG
Posp      -----GCTAAAT-AGCTAGCCTCACCACAAACACACAAAT-----A-A
Atsp      -----GCTACAC-AGCTAGCCAA-ACCAAT--ACTTCAAC-----TT
Leoc      -----GCCATAC-AGCTAGCCA--AACCAATATCTT-----AACTT
Amca      -----AGCTGAAT-ATCTAG-CTTAACCACAAAATACCCAA-----ATA
Osbi      -----GCTGCCA-AGCTAGCCAA-TCCAACCCCTTTAAAC-----AA
Pabu      -----GCTACAA-AGCTAGCCGAACTATTTAAACCCTGGA-----CCAAAT
Hial      -----GCTGTAA-AGCTAGCC---TAAAAATGATAACCA-----AAGTGA
Elha      -----GCTAAAT-AGCTAGCCTAACCACCAACACCAAACC-----A
Mlcy      -----GCTAAAC-AGCTAGCC-TAACCCCC---CAAACCC-----AAACAT
Algl      -----GCTGAAT-AGCTAGCCGAACA---AATTAAGT--T-----AAGTG
Ptgi      -----GCTAGAT-AGCTAGCTTA---AACAAA---ACA-----CCAA
Alaf      -----GCCAAAC-AGCTAGCTGAAAAACTAAAAATAACTG-----A
Nock      -----GCTGAAT-AGCTAGCT---TA---AAC--ACTAA-----AATAAA
Anja      -----GCAAAAC-AGCTAGCC---TAA--CCACAATAAAA-----CAA
Gyki      -----AAGCCAAAT-AGCTAGCC-----TG--AACAC-----AACC
Syka      -----GCAAAAA-AGCTAGCCTAAACAT---AACAAACA-----AATGA
Opma      -----GCAAAAA-AGCTAGCTCAA---ATATACCAAAT-----AAACGA
Comy      -----GCAAAAC-AGCTAGC-CTAACATTTAA-CAAAA-----T-
Sasp      -----GCAGAAC-AACTAGCTCGA---CAAAT---TAAA-----ACAA
Eupe      -----GCGAAAC-GGCTAGCCCAACTA-----ACATAAAC-----A
Enja      -----GCCACAA-AGCTAGCTCTA--ACCATATAGC--A-----A-AA
Same      -----ACCAAAC-AGCTAGCTCAGACCATAGAACCC--AA-----GTTGAT
Chch      -----GCTATAC-AGCTAGCTTACCCAA-----TGGGTAA-----AACTCA
Grgr      -----GCCGAAT-AGCTAGCTTAAAC-----TAACGGGAC-----TAACTT
Caau      -----GCCAAAC-AGCTAGCTTAACTAC-CTAATAACTA-----
Cyca      -----GCCAAAC-AGCTAGCTTAA--CTACTTA---ATA-----ACTA
Dare      -----GCTAAAT-AGCTAGCT---TAACCATCAAGAT-----CAACTT
Cost      -----GCTAAAT-AGCTAGCTT-A---ATTACTATACTAA-----ATTA
Leec      -----GCCAAAC-AGCTAGCTTAAAC---ATT---AAAT-----TAATAC
Crla      -----GCCAAAC-AGCTAGCTTAAACA---CCTAGAC-----AACTA
Clmc      -----GCTATAA-AGCTAGCTTAAAC---CACCAAAACC-----AACCC-
Phin      -----GCCAAAA-AGCTAGCTTTCTAACCAAAAATCATAA-----CAC
Icpu      -----GCTAAAC-AGCTAGCTTAAATTA---CCTAAA-TA-----CCTAAA
Psto      -----GCTAAAC-AGCTAGCTTAA-----ACACCAAAAA-----TTACCC
Cora      -----GCCATAA-AGCTAGCTTAAACACATCAAC-CAACT-----A
Eisp      -----GCTAAAC-AGCTAGCAAAC---AC---CAAGATCA-----TCAA
Apal      -----GCCAAAA-AGCTAGCTT---AATTATTAAGACA-----ACC
Eslu      -----GCTCGCC-GACACACCCGGAT-----TAAAAAC
Dape      -----GCTGACT-AGCTCGCCGACACCCC--CGGT-----AAATA
Glse      -----GCTAAAC-AGCTAGCCCCACA---ATTGGTTAAC-----AC
Naar      -----GCTGAAA-AGCTAGCC---TAGACAT-TTATT-----TAACAC

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Baoc -----GCTGAAA-AACTAGCCTAGATATT--TTTTTAACA-----T
Opso -----GCTGAAC-AGCTAGCCTAA--GCATTTGAATA-A-----CACA
Alte -----GCTCAAC-AGCTAGCTTAACCGCCTTAGAATAAAC-----T
Plap -----GCTCAAC-AGCTAGCTTAA--CCGCCTAGA-ATA-----AACC
Plal -----GCTAACT-AGCTAGCCAAACAC-CTGG--ACTA
Sami -----GCCAAC-AGCTAGCCGAACACTTGGAT-TAATT-----T-
Rere -----GCCAGTT-AGCTAGCC-AACC-ACT----TGGATT-----AA-TAC
Gama -----GCTGATC-AGCTAGCTCGCA--CATCTGGTTAATT-----ACCA
Onmy -----GCTGACT-AGCTAGCCAACATATTTGGT-CC-----AACAC
Sasa -----GCTGACT-AGCTAGCCAA-CACACTTGGTCTAAC-----
Cola -----GCTGACT-AGCTAGCCCACACATTTGGTCT-AACA-----C
Dita -----GCTGAAT-AGCTAG-CCTTATACACCACGGCCAAC-----ACA
Gogr -----GCTAACAA-ACCTAG-CACATG-----CC-----CCGACA
Chsl -----GCTGAAT-AGCTAGCCAAC--CCCAAAGG-CCC-----CC
Atja -----GCTTAAAAGCT-AGCCTACTTAATAGTTCAAAAACCT-----
Iido -----GCTTAAA-AGCTAGCCTACCT---AAAGTTAA-AA-----AAACTT
Auja -----GCCAAC-ACCTAGCCC-CACAGACAAATAAACTA-----A
Chag -----GCTCAAC-AGCTAGCCCAAACAATAAGC-T--AA-----ACCCCC
Hami -----GCCACC-AGCTAGCCCCACCCTAATATA-----AAA---
Saun -----GCCACC-AGCTAGCCCCACC--C-CACAATAA-----ATA
Nema -----TCCTAAC-AGCTAGCCCC--CCCCCG-CTAA-----AA
Disp -----TCCTAAA-AGCTAGCCCAA----CCCCTGAAAA-----CGACCA
Myaf -----ACCTAAA-AGCTAGCCTAACT-----CAAAAA-----A
Lagu -----GCTCAAC-AACTAGCTCGCCCC-----C-----CCCCAA
Trtr -----CGCTAAAT-AGCTAGCCC--AAACAATAACT-----AAACT
Zucr -----TGCTAAAT-AGCTAGCC-----CAAAT--AACAT-----TTAAGT
Pxja -----TGCTAAT-AGCTAGCCCAAATTATCTCA-CC-----AAAA
Pxlo -----TGCTAAT-AGCTAGCCCAA--ACTACCCACC-A-----AAAA
Ptr -----GCCTAAA-AACTAGCCC-ACCCACCACAA-CAATA-----AGA
Apsa -----AACCTAAA-AGCTAGCCCGCC--CATAACATAATA-----
Cabe -----CGCCAGC-AGCTAGCC--TTAACCCACGCCT-----AAAAG
Bzze -----CGCCTTAA-AGCTAGCAC-GAACCCCAAAAAT-----AACAA
Siim -----AGCCTAAA-AACTAGCTCAACCAT-TAAAAAC-----AACAA
Ctru -----CGCCTAAC-AGCTAGCCTCCCCACAAAAACAAACC-----C
Dpbr -----CGCCTAAC-AGCTAGCCTCACCCG----TAAAAAC-----AACCA
Caki -----AACCTAAG-AGCTAGCCTAC-----TCAATCTTAAA-----TTTATA
Phja -----TAAC-GCCTAA--CAGCTA---GCCTAA-AC-----CAA--A
Brsp -----TTCACCTAAC-AGCTAGCC--TCA--CCTCTTAAAA-----TCT
Gamo -----GCCTAAC-AGCTAGCCT-----CAAAAATAA-A-----A
Lolo -----TGCTAAC-AGCTAGCCTCA--ACAATCAAATTTT-----ATTA
Batr -----AACACTGAGCTGTCTTACGCCTACA--GCTAGTCATAT-----TTC
Prmy -----ACTGCCA-----ATTTGCTA-GT-----CAAATA
Loli -----CACTCAAC-AGCTAGCCAC-CCA--TCTAATCACAA-----CAG
Loam -----TACCTAAT-AGCTAGCCACA--CCAATAAACACA-----ACAA
Chab -----CACCACAC-AGCTAGCC-TTACAACCT--AAAGAC-----AA-CAA
Chto -----CACCACAC-AGCTAGCCTTACAA---CCTAAA-GA-----CAACAA
Majo -----TGCTTAC-AGCTAGCCCGT-----CCAAATAAAA-----GAAACA
Hlst -----CAGCCCTGA-AACTAGCCAAAAC--CTTCAATC-A-----CAACAA
Clpe -----CACCCCC-AGCTAGCCCGACAGTTTA-AAACCAAC-----C-A
Mlmr -----CACCTAA-AGCTAGCC----TTTTAATTAAGA-----CACAC
Crcr -----TCCTAAC-AGCTAGCCCA-CCAACGCAACTAATAC-----TT
Muce -----TCCTAAC-AGCTAGCCTACC--AACGCA--ACTA-----ATAC

Bege -----CACTCAAC-AGCTAGCCCTACC---ATATA-CT--T-----CAACAC
 Mela -----CGCCCACT-AGCTAGCTCG-CACAAC--ATCATAAC-----AT
 Hats -----AACGCCTAGC-AGCTAGCCCGCTCAAACAAAAAC-----AACAC
 Orla -----ATCTAAAA-AGCTAGCC---CAAAGCC-TTAAT-----TAAAGA
 Cosa -----CCCACA-ACCCAACACCAATTACCCAT-TAT-----T-
 Exsp -----AGCCAAAC-AGCTAG-CCCATCCCATTAAAACCATC-----ATA
 Depa -----CGCCCAAA-AGCTAGCCTAC---AACCCAAAACCA-----ACAC
 Rima --ATTATTCTGACACCTAAC-AGCTAGCTTACCTA-----TAAACT-----ACACCA
 Fuol -----AGCCCAAC-AGCTCGCCTCC-----AACCCATAAT-----TCAACA
 Gmaf -----AACCCCTAT-AGCTAGCCC--CCA-----ACCTAAAA-----AAATAT
 Xeei -----AGCCCAAC-AGCTAGCCTACTTACCCTAAAACCAAC-----AAT
 Pros -----CGCCCCAC-AGCTAGCCC-ACAA---CATTTA-AT-----CAACAA
 Scmi -----CGCCTCAC-AACTAGCCCAAAGA--TATTTTAAATC-----AACAA-
 Rolo -----CGCCCAAC-AGCTAGCCCGAAACCCCAACCAACAT-----CCCAAC
 Cere -----CACCAAAC-AGCTAGCCA-CAAACCATGAGT-----AATCC
 Daga -----CGCTAAAA-AGCTAGCC---CAAGATCAGGGGA-----TAATAC
 Anco -----CGCCCAAC-AGCTAGCCCACACCCACC--CCCCAAC-----AA
 Dmve -----CGCCCAAC-AGCTAGCCCA-CAA--CCAACCCACAA-----CAA
 Dmar -----ACGCCCAAC-AGCTAGCCCAAA---AAC-AACC-CA-----CAACAA
 Anka -----CGCCCAAT-AGCTAGCCCA---ACCCACA-C-----AACAA-
 Moja -----TGCCCCAC-AGCTAGCCCACACCCCCCCCCCAACAAACAACCATT
 Hoja -----AGCCAGC-AGCTAGCCACAATA---CCACCCC-----AACAA
 Bede -----CGCCCCAC-AGCTAGCCC-A--CAAATCCAACCA-----ACAA
 Bosp -----CGCCCCAC-AGCTAGCCCAAAAATCCAACCAACAA-----
 Mysp -----TGCCAAAA-AGCTAG-CCCGCCTACC--AAACTAAC-----AAC
 Osja -----CGCCGAAC-AGCTAGCCC---GCCCTCCCCCTA-----ACAA
 Sgro -----AACCCAAC-AGCTAGCC-CACCTACC-----AACCT-----AA-CAA
 Pzpa -----ACGCCCAAC--CGTAGCCCAAAA--AACATTTATAA-----ATT
 Zeja -----CTCCAGT-TGCTAGCCCAACAAACGTTCCCTAAAAA-----T
 Znne -----CACCTAAC-TGCTAGCCCCCA---CC-CATTT--T-----TAAACC
 Zefa -----CGCCCAAC-TGCTAGCTCA-ATAGTATCATTAAATT-----
 Acni -----CGCCCAAT-TGCTAGCTCAAAA---GAC--ATTTT-----TAAAAG
 Ncrh -----CGCCCAAT-TGCTAGCTCAA-----AAGACATTTT-----TAAAAG
 Agca -----CGCCCAAC-AGCTAGCCCTCC-CCCAAAACCTAACA-----A
 Hydy -----TGCCAAA-AGCTAGCCCACCT---AACCAACCTC-----AAATAA
 Gsac -----TGCCTAAC-AGCTAGCCCGCCCAACAATTTCAACG-----A
 Pevo -----GGCCTCAC-AGCTAGCCCCACTA----A--AAATA-----CAACAA
 Hiku -----TACCCATA-TGCTAGCTCAAACAC-----TAAATTC-----AAACAA
 Inpa -----CACCTAAC-AGCTAGCCCACCCATCC---CCC-----CCACAC
 Auch -----CGCCGAAA-AGCTAGCCT-A--CTACGCAAACACA-----ACAA
 Fico -----TGCCAGC-AGCTAGCCCCAC-CCCAAGAGCAACAA-----
 Macs -----AGCCTTAC-AGCTAGCCTACAATA--AAAAGC-----AACAA
 Moal -----TGCCAAAC-AGCTAGCTTCTA-ACCAAAAAC-AACA-----A
 Syma -----TACCAAAC-AGCTAGCAGC-CCTAA--AAACACAAC-----AA
 Maf r -----CACTAAGC-AACTAGCCCCACCCACCAAAAACAATA-----AAC
 Dcpe -----CGCCCCC-AGCTAGC-CCACAT----C-TAAAAG-----CAACAA
 Dct i -----CGCCCCC-AGCTAGCCCAC----ACCTAAAAA-----CAACAA
 Hehi -----CGCCCAAC-AGCTAGCCACA--AACACAAC-AACA-----ACCA
 Stam -----TGCTTAAC-AGCTAGCCCCCTCT--ACCAAGAACAA-----CAA
 Hogi -----CGTCCAAC-AGCTAGCGCATT---AACCAATCAC-----AATATA
 Erzo -----CGCCTAAC-AGCTAGCCCACCCACACAACCCCAACA-----A
 Hxot -----TGCCTAAC-AGCTAGCCCACCAACAATTTCAACA-----A

Core -----CGCCCAAC-AGCTAGCCCA--AC---TAAGAAATT-----TCAACA
 Apve -----CGCCCAAC-AGCTAGCCCATTAA--ACAATCACAA-----CAA
 Latj -----CGCCTATT-AGCTAGCCC--CCACTTAAAC-A--AA-----CAACAA
 Laja -----CGCCCAAC-AGCTAGCCCCA-----CCAATCAAGAA-----CAACAA
 Syja -----GACGCCCAAC-AGCTAGCCTCTCC---ATCAAAAAAC-----AAC-AA
 Epme -----CACTGACC-CGCTAGCCCAACCAAACCAA--A--AA-----CAACAA
 Grse -----CGCCGACT-AGCTAGCCCG-CTTATCCAAAAACAAC-----AA
 Clja -----ACACTAACA-AAATAGCCTGACC-----ACCTAA-AA-----CAACAC
 Ogcy -----GCCTAAC-AGCTAGCTCACCCAA--CATAAACCA-----AAAGTT
 Plna -----CACCTATC-AGCTAGCC--CCTCCAACAACACCAA-----AAT
 Lema -----AGCCCAAC-AGCTAGCC-CCACACCC---AAAAAC-----AA-CAA
 Etzo -----CGCCCAAC-AGCTAGCCCCCAA---GCCAGA-AA-----CAACAA
 Apse -----AGCCATT-AGCTAGCTCGCACC-----CCAAAATG-----CAACAA
 Epde -----AGCCAAAC-AGCTAGCCCCCTCA--ACCAAAAATAA-----CAA
 Slja -----GGCTCATC-AGCTAGCCCCACCATTAGTGCAAGTACTAA-TAATTATT
 Bsja -----TGCTAAAA-AGCTAGCCCCCTCCCCAAAAACAACAA-----
 Ecna -----AGCCAACC-AGCTAGCCCTAAT-ACTAAATTC--AA-----CAACCA
 Cohi -----CAGCTTAATT-AGCTAGCCTA-CCTAAC--AACCCAAT-----CA
 Caar -----TGCTTATT-AGCTAGCCCCCTCAA---CTAAACTT-----AACAA
 Came -----TGCTTATT-AGCTAGCCCCACCA--ATCAAACCCAA-----CAA
 Mema -----CACCCACA-AGCTAGCCC-CACCCACAACAAC-----AACAA
 Lenu -----AGCCCAAC-AACTAGCCCCACCCAC--CCAAACAC-----AACAC
 Brja -----CGCCAACC-AGCTAGCCCCGCCCAACAAAATAACA-----CCC
 Plma -----AGCCAACC-AGCTAGCCCACATC--AGTAAAAACAA-----CAA
 Emst -----CGCCCAAC-AGCTAGCCCACCC---CAACAAAA-AC-----AACAAA
 Ptti -----CGCCCAAC-AGCTAGCCCCTCTTAACCAAAAAGCAAC-----AAA
 Losu -----AGCCATT-AGCTAGCTCACCCCCAAAAACTTAAC-----CTG
 Geoy -----TGCTGACG-AGCTAGCTTTA--ACCCTCGAACCTA-----ACGT
 Dipi -----CGTGCCCAAC-AGCTAGCCCAA---TAATTAAAATCA-----ACAA
 Pama -----CGCCGATC-AGCTAGCCCACCCAACAAAAATC-----AACAC
 Leob -----AGCCCAAC-AGCTAGCCCAACTCCCCAAAACAACCA-----
 Neba -----CGCCCATC-AGCTAGCCTATCAACTTAAAAACAACA-----A
 Pdpi -----CGCCAATC-AGCTAGCTCCGCC---A-TAACTT-----CAACAA
 Nimi -----CGCCATT-AGCTAGCCGC-CCCAGCCAAAAACAAC-----AA
 Uptr -----TGCTTAC-AGCTAGCCCACCAA-----ATTAAG-----AAACAT
 Pesc -----TTAACCAAGC-AGCTAGCCCCCCCCCCCCCCCCCATT-----CAAGTA
 Baar -----CGCCCACC-AGCTAGCCCA-TCCAACCAAAAAACAAC-----AC
 Moar -----CGCCAATAGCTAGCCCCCTAAACCA--A---AAACAA---CACA-
 Toja -----AGCCATT-AGCTAGCC-CCATCACTTTACAAAAAC-----AA-CAA
 Chau -----AGCTCAAC-AGCTAGTCCACCCAACCAAAAAAC-AAA-----CTCCCC
 Chse -----TACCAAAA-AACTAGCCCCCCT---CCCCAACAGC-----AACAA-
 Enar -----AGCCCAAC-AGCTAGCCCCCCT---TTACCAAAAA-----CAACAT
 Hpty -----GGCCCAAC-AGCTAGCCCCCTCAACCAAAA--GATAA-----CAAATC
 Nana -----CACTCAAC-AGCTAGCCCCCCCCCCCCAAA-AAGCA-----CAACAT
 Mcst -----AGCCAACT-AGCTAGCCCCATCATTACCGAGACCGAAAA---CAACCA
 Rhox -----CGCCATT-AGCTAGCCCCAACTCAAAACCAAAAAAC-----AACCA
 Opfa -----TGCCCACC-AGCTAGCCCCCAGACCAAAAAAC-----AACCC
 Paar -----CTGCCAAT-AGCTAGCCTAA--ATGAACTTAAC-A-----AAAA
 Gozo -----TGCCCAAC-AGCTAGCCCC-ACCCCTAAAAAA-----CAACAG
 Ackr -----CACCCACC-AGCTAGCCT-ACAA---TAAAAA-CA-----CAATTA
 Elev -----GCCATA-AACTAGCCCC---CGCCTGA-ATAA-----GTAA
 Trdu -----TGCCCAAC-AGCTAGCCCATTCA-----TCAACCC-----CAAATC

Amoc -----TGCCTAAC-AGCTAGCCC GCCCTTATAAAATC-----ATCAA
Hame -----AGCCTAAC-AGCTAGCCCA-AACCCCTAAATACAAT-----
Chso -----CGCCCAAT-AGCTAGCCC ACTCAC-TAACAAACAACA-----CACC-
Lyto -----AGCTTTAT-AGCTAGCCC ACT--CAAACAAC-CTCA-----ACCA
Encr -----AGCTTTAT-AGCTAG-CCCGCTCAAACA ACTTCAAC-----ACC
Bvar -----AGCCAACT-AGCTAGCCC ATAGAAACAAATTCAACA-----C
Noco -----TACCGAAC-AGCTAGCCCCCA---AGACA ACT--T-----CAACAT
Chsp -----AGCCTTAC-AGCTAGCCC ACCAC---TAAAAA-----CAACA
Arja -----CGCCCAAC-AGCTAGCCC ACCCAAGCAAGTTCAAC-----AAA
Pase -----CACCCAAC-AGCTAGCCCCC ACCTAAAATC-----AACTA
Trel -----AGCCCTAC-AGCTAGCCTGATCACA---CAAATGC-----AACTG
Lifa -----CACCTACC-AGCTAGCCGTAACATTAAGCAAAA-----TA
Acur -----TACCCATC-AGCTAGCTCAAAGTC-TAATATC-----AACAA
Ampe -----TGCCCAAC-AGCTAGCCACCACCCCAAA--AACAA-----CAAACC
Urja -----TCGCCAAA-AGCTAGCCCCACC---CCCAAAAATC-----AAAACC
Enet -----TGCTTAAA-CGCTAGCTTAATTCCACCCC--TAACC-----T
Ptbr -----GCCCACT-AGCTAGCTCTC--ACATTAAGT--A-----ACAA
Safa -----AGCCAGC-AGCTAGCCTAACCA---CAAACCT-----AAAGC
Icae -----ACGCCAAC-AGCTAGCC---CAACT-CAACAAAAC-----CAACAA
Asmi -----CACCAAAT-AGCTAGCC-CACCCAAT---ATAACT-----AA-TTA
Foal -----GGTTTAA-AACTAGCACAC--TGACATATTT-TTA-----AAATTA
Drze -----ATCAAAAC-AACTAGCC---CATAAA--AAAAT-----CAATCA
Rhas -----CACCCAAC-AGCTAGCCCCCCCC---CCTTAA-AA-----CAACAA
Elac -----ACACCCAAC-AGCTAGCCCCTCC--CTCCA ACT--A-----CAACAA
Kugu -----AGCTCAAC-AGCTAGCCC GACC---ATACAAAAC-----AACCAA
Plor -----CGCCCATC-AGCTAGCC-CCTCCCCT---AAAAAC-----AA-CAA
Sgun -----CGCCATT-AGCTAGCCCAAC--ACCCAAA--ACCA-----ACAC
Zaco -----CGTCCAAC-AGCTAGCCCCCCT--CCCAA--AAG-----CAACAA
Zbfl -----CGCCCAAC-AGCTAGCCCC---TATATCAAATA-----CAACAA
Spba -----CGCCATT-AGCTAGCCCC ACCTATAAACC-ACC-A-----ACAA
Game -----AGCCGACC-AGCTAGCCCCCTCCACCAAAAAC-----AACAA
Thth -----TGCTGACC-AGCTAGCCCAC--CCTAACAAAAACA-----ACAA
Xigl -----CGCCCA-TCAGCTAGCCCC ACCC--ACCAATAACAA-----CAA
Hyja -----TGCCGACC-AGCTAGCCC G-CCCAACAAAAACAAC-----AC
Psan -----TGCCAACC-AGCTAGCCC GCCCCCCCAACAATAAA-----CAACAA
Cupa -----CGCCAAC-AGCTAGCCC ACCCC---AATAAAAA-----CAACAA
Mpch -----TACCCAAC-AACTAGCCT--CA---AACCAAACC-----AA-CAA
Char -----AACCAAAC-AGCTAGCCCC-ACCCATAAAACCAAA-----AA
Pser -----CACCCATT-AGCTAG-CCCACCCAACCAAAAACAAC-----AAA
Prol -----CGCCATT-AGCTAGCC---CAACCCCTTCACC-----TAACAA
Plbi -----CGCCTATT-AGCTAGCCCC ACCCC--TTAATACAAC-----AAACCC
Calu -----CACCCACA-GGCTAGCCCAACCAACCA--AATCCAC-----CAA
Papa -----CACTAGCA-AACTAGCCCAAC---ACCCAAA-CA-----CAACGA
Sufr -----AGCCCAAT-AGCTAGCCTACTT--ACATAAA--AT-----CAACAA
Stci -----AGCCCACT-AGCTAGCCCAAC---AAT-TAAA-AC-----CAACAA
Taru -----CACCTAAC-AGCTAGCCC--CCACCCACCCACAAC-----AA
Rala -----CGCTTAAA-AGCTAGCCCCCCCC---CCAAAAGC-----AACCC

		1	1'
Scca	T--AACACTATTAATTCTA--CTTACATTACA--ACCTT-A--AACT	AA	AAC-A
Muma	TAGATCTAATTTATACC-----AC-----AA--AC---TTTTAACT	AA	AAC-A
Erca	AAAAATATTTAAAT-----A--AATACTCAT---AAAAC-AAAAC	AA	AAC-A
Pose	CCA-A-ATAAATATT---TAAATAAACACACA--AAAA-ATAAAAAAC	AA	AAC-A
Actr	ATATTTATATATA-ACCCC-CCATAAGATCAA--AAAA--ATAAAC	AA	ACC-A
Scal	ATACTTATACATAAACCCC--CATAAGATCAA--AAAA-AT-AAAC	AA	ACC-A
Posp	ATATTTATATATAACCCCCCATAAAAAACAAA-----AAAATAAAC	AA	ACC-A
Atsp	ACAAATATACATAACCCCACATATT--CTTAA--AA-ACATAAACCC	AA	ATC-A
Leoc	ACAAATATACATAACCCCA--TAAATTTTTAA--AGACCTA--AACC	AA	ATC-A
Amca	CAC-AAATATAAATACCCTCACATACCATTAA--ACTAAACCAA-CC	AA	ACC-A
Osbi	ACAACAATATATACAGGCCAATAACCCTAAC--CTTCAAAC---T	AA	ACC-A
Pabu	ACTCAACTACATATAGCCAGACAACATATTA--AAATACT--AACT	AA	AAC-A
Hial	ACAAACATATATAACCCCA-CATGT---TTTG--AAA-GTACTAAAC	AA	ACC-A
Elha	CACAACCATAAATACCCAACCACACACTAACA--GAAACC---ACT	AA	ACC-A
Mlcy	ACAACCATAAATACCACCA-CACAACAAGA-----CTCACC--AACT	AA	ACC-A
Algl	ATCA--ATTATAG-ATAGC-GAGTTGTTTGTAGT--GGCGT--ATGGCT	AA	ACC-A
Ptgi	ATGAACAACCATAGATATAAA--AGTAGAAC--AAAACC-GCAAC	AA	ACC-A
Alaf	AAACCATAAAT-ACCCACAA---CCAAAA--CCCA---AACC	AA	AAC-A
Nock	CCATAAACCATACATACTC-ATTCCCCCAACA--ATTG-----AAAC	AA	AAC-A
Anja	ATGACCAAGCATATATAACAA-AATAAACCCA--AATATA--AAAT	AA	AAC-A
Gyki	GTAACCCCAAATATATAT-ATAAAGAACCTA--TAATTTTAC-ACT	AA	AAC-A
Syka	ACAACCATATATACCACACCCAAAG-----AAA-C---ATTAAACT	AA	AAC-A
Opma	CCAACCATAAATAAT-----AGACAAA--AC--A-AT-AACT	AA	AGC-A
Comy	AATCAACCATAAATTACA----AAACAAA-AA----ATTTAAAA-AT	AA	AAC-A
Sasp	A--CAACCAAACAAATATATAACAAAACCTAATAATTTAATTAATT	AA	AAC-A
Eupe	AGTAACCAC-TATAAATCAAAAA---TAAAA--CTAA-----ACT	AA	AAC-A
Enja	TTAATAATCTAATTACCTACTTAAACAATA--AAAATAGAAACC	AA	ATC-A
Same	AATAT---AACTAATTCTTCAAG-AAGTTGA--CAACGCA--AACT	AA	ACC-A
Chch	CAACATTTCTCTA-CCCAAAACAAAACCCCAA--AC--ATTAAAAAC	AA	ACC-A
Grgr	TAGAATATAGATATCCCC--CCACAACCTAA--AATGAAACAAAAC	AA	ATC-A
Caau	AACAATATAAATAAATAAAGATAGACCTAACA--CTAAAAAT----T	AA	ATC-A
Cyca	AACAATATAAATAAACAATAAAT-AAGCCTAAC--ACCA---AACT	AA	ACC-A
Dare	AAAAACATCAATAACCTAT-AATCAACCTAAA--ACC-ACA--AACT	AA	ACC-A
Cost	ATAA-CATAAATAAAGTACAA--AACCTAAA-----ATTATTAATC	AA	ATC-A
Leec	AACAACATAAATAAATAAATAAATGAACCTAAA--T--CTACAAACT	AA	ACC-A
CrIa	AACAACATAAATAAACAACA-CA-AA-ACCTTA--AAAAATAAAC--T	AA	ACC-A
Clmc	AACAACATTCAACAATTTT-ACTAAACCCAAA--CATCACA--AACT	AA	AAC-A
Phin	CACCATTCCCACCCACCTTACACA-ACACACA--ATAACTTTAATT	AA	AAC-A
Icpu	ACAAC--ATTACAACATT--TAAAAACCTAC--ATACTCCAAACT	AA	AAC-A
Psto	ATCAACATCAAAAATCTTT--AAAAGACCCCA--ACAAC-TCAAATT	AA	AAC-A
Cora	ACAAC-ATTAATAAGTT-TAGAAAAACTAAA--TTAAT---AACC	AA	AAC-A
Eisp	A-CAACATTACCACATCTTCT--TACACCACC--ATAAACTAAACC	AA	ACC-A
Apal	TAACAACATTATCTTGTCTTACACAACCCAC--C---CAACTAATC	AA	ACC-A
EsLu	CCCAACATATATA--CCCC-AACAAACCTTTA--AAAAATCAA--C	AA	ACC-A
Dape	ACCCCTATAGATACCCGAACAAAC-CTTAAAC--TTAAAC---AAC	AA	ACC-A
Glse	CACAATATAAATACCCCTACACAAC--CTTAC---CA--AATTAAC	AA	ACC-A
Naar	CACAATATATATTCCTTTG-CATATCCTGCAC--T--AGATTAAC	AA	ACC-A
Baoc	CACAAT-ATAAATTCCTTTGCATA-CTTGCA--CTTACCT--AAAC	AA	ACC-A
Opso	ACAATATACTAT--ACCCCCACATAACCTA---CATTAATTAAC	AA	ACC-A
Alte	AACAACATAAATAACCCAACAAA--ACCAAA--ATA-AT--AAAC	AA	ATC-A
Plap	GACAACATAAATAACCCAACA--AAACCCAAA--AGTAA---TAAAC	AA	ACC-A

Plal ATTTTACATTATAAATATTCCCTCACAACCTGACAACCTTG--TGAACAAATC-AAT---
 Sami ATTAGTATAAATAACCCCTCATAACCTAG-AA---GCTTGTGA-ACAAATC-AAT---
 Rere CACAACATAAATACCCCT-CACTACTTAGAG--AGTAAG---AAACAAATC-AAT---
 Gama --CGACATACCTGAACCCGCA--TA-ACAAAC----TACACCCCATCAAACC-AAT---
 Onmy CACAACATACATACCCCAATAAA-ACTTAGAA--TTAAGT---CAACAAACC-AAT---
 Sasa ACCCAACATACATACCCCTATAAACTTAAA--ACTAAGTCAA-CAAACC-AAT---
 Cola CACAACATATATACCCCCACAAAAC-TTAGAA--TTAAGTC--AA-CAAACC-AAT---
 Dita CTGATTAGCCACAACCCACCAAGACCTGAATA--C---AACGA-ACAAACC-AAT---
 Gogr GCCCCCAACAACAACCCCTAATAAAACCCCCAG--CCCACA---AAC-AAACC-AAT---
 Chsl CTCCCAACAACCTGCCTTTAA--AAATTTAT--TTCCAACCCAACAAACC-AAT---
 Atja AAACATAGAAATAAACTA-AGAAACCCAAAA--GAACAAGA---CAAACC-AAT---
 lido ATACATAAACATAAACT--AACAACCCAAAA--AAA---TGAAACAAACC-AAT---
 Auja CTCTCTATTAATT-TTATAAAAAAGATCGAAC--ACAAAA--TAACAAAAC-AAT---
 Chag ACTAT--TTAATAATTTATAACA-CACTAAA---TAAACT--AAATAAAC-AAT---TGT
 Hami ACCCCAAAATATATTCCTTTCTA---GAATAT--ACA--A--AAACAAACC-AAT---
 Saun TTCCATATATATACTTCC-----CCCACC--CCGCAATTAACAAACC-AAT---
 Nema CAACCC-CCTATAAATATTTACTCATT-----TTTCTTCCCTAA-CAAACC-AAT---
 Disp CCCTTTA--AAT-----CAAGTCCCTAA--AAAAC-ACTCAACAAACC-AAT---
 Myaf AACAACCCCATTTAAATTAACCCCTTAAAA--CAAGC-----AACAAAC-AAT---
 Lagu C---ATAAATATA-ACCAC-AGCAAACCTCCC--CCCAGA-GTAAACAAACC-AAT---
 Trtr ACTTATACAACCTAACTTAATTATACATTTAA--A-ATGTA--ACTTAAACC-AAT---
 Zucr AGAATATATAACTAATCTA-GTAATACACTTA--AAATATAA--ATTAAATC-AAT---
 Pxja TTAATTATAAATACCCCTTAATTAACCTTAAAA--A-ATTTA--AA-CAAACC-AAT---
 Pxlo TTAATTATAAAT--ACCCCTTAATTAACCTT---AAAAATCTAAACAAACC-AAT---
 Pctr TCTTACTAAACCCCCACAAGAACTAAA--AA-C---AAC--AAACAAATC-AAT---
 Apsa TCAAATATTAATAACCCAAAAGAAAATA--A--ACCTATAAA-ATAACC-AAT---
 Cabe AAACACTAACCAGGCTAAAAGGACACCAACC--C-----CACCTAAAC-AAT---
 Bzze CCACCCATCAATAACCTTATAAAACATACACA--TGAC-----AACAAACC-AAT---
 Siim ACAGACACTAATAACCCATAAAA-ACCTAAA--ACCAC---AATCAAATC-AAT---
 Ctru AA-ACCATTAATACCCCGAATGC--CCGACG--CACTCAT--AATTAACC-AAT---
 Dpbr CAAACATAAATACCCCCACATACCCTACA-C--ACC--TACAA--TAAACC-AAT---
 Caki AT-AGAATTAAAAACCTTC--AATATACAAA-----GTAAACC-AAT---
 Phja CTTAAGATTTACATAAAG---TTAAAGCTTA--CAATAACTAAAATAATC-AAT---
 Brsp AT-----TATGAAATAA-GATCAAATTA--TACATTT-AAACAAAC-AAT---
 Gamo ATTTT-ACTATTATGGACCTAAAACCTCATAA--TAAACTT--AAACAAATC-AAT---
 Lolo -TTG-TGAAACTAAAACCTCA-----TAAT-----ATAATTAATTAACC-AAT---
 Batr CCCTTCCCCTCTTTATCATAAAAACAT-AAA--CTCA--CACTCAAAGT-AAT---
 Prmy T-AACAACATAACCCACA-AAATCCCCTTAA--ACCC---TAAATAAAT-AAT---
 Loli ATAAGTATAAATAACCCCTAA-GACACCCCG--TTTTTAT-AAACAAACC-AAT---
 Loam AACTACATAAATACCCCTAAC-CACCCACCCACCCACCTTAAACAAACC-AAT---
 Chab ACAAACATTAATTACCCCC-AACAACCCAAAT--GCAAGTCG-AAACAAAC-AAT---
 Chto ACAAACATTAATTACCCCC--CAACAACCCAA--TGCAAGTTGAAACAAAC-AAT---
 Majo TATCACATTAATAACCCCT--AATACGCTTAA--CACCA-ACTAAACAAATC-AAT---
 Hlst CACCATATAAATAAACCCCA-AATGCAATAAGA--ACTT--TACACCAAACC-AAT---
 Clpe GAGCACATCAATAACCCCAACTGCCCTAACAA-----TTTCTTAACAAACC-AAT---
 Mlmr ACAAACATCAATAACCCCT-AAA--ACCCTAC--ATAAACCTTAAACAAACC-AAT---
 Crcr ATT--TATACACACCTCCCAATGTA-CTGAAA--TA--AACAAACCAAACC-AAT---
 Muce TTATTTATATACACCTCCCAA--TGTACTGAA--ATAAAC-AAACCAAACC-AAT---
 Bege -TCAAC-TATTTATACCCT-AAAAACACTTA--ATACA--TCAACCAAACC-AAT---
 Mela TTAGATATAGATATACAC----ACA-CCAACA--AATAAGC-AAACAAATC-AAT---
 Hats ATAAATACTCATAACCCCTAATACACCCAACA--ACCA-----AACTAAATC-AAT---
 Orla CCAAATAT-TACTAGTAAT-TAAAAACCCAAG--G--ATATTAATTAATC-AAT---

Cosa AATAACCCCTAAAACACG----AAACAAA-AT-----AA-ACAAATC-AAT----
 Exsp AAC-ATATAATTAACCCCTAAGTTACTAACAA--A---AACTAA-CTAAACC-AAT----
 Depa CCACT-ATTAATAACCCCTAAAACACT-----TAAAAAATTAACAAACC-AAT----
 Rima AACACTATTATTACCCCC---TAACATCTTAA--CAAACAATAAT-TAAAC-AAT----
 Fuol ATCCTTATCAATAACCCCT--AATTCCTTTAT--TCAAT-T--AATTAAATC-AAT----
 Gmaf AAATATATTTCT---TTCC-AACCCAC-----CTCA-TCAAAC-AAT----
 Xeei AAAAATATTACTAAACCCAAATTCCCTTAACA--ACCTAATC----TAAACC-AAT----
 Pros CCAAACATAAATAACCCT--AAAAACCCCAA--ACAAAAC--AAACAAACC-AAT----
 Scmi CTAATTATTTATACCCCTT-GAATTCCCCAA--GAGA--C--AAACAAACC-AAT----
 Rolo ATAAATACCCTTAAATACC--CCTAATTT-----AAAT-AC-AAACAAACC-AAT----
 Cere CCCCCATAATTAACCTAAAATAAACTAAACC-----AAGAAAT--AAATC-AAT----
 Daga CTCAATATAATCCTCCCA-AATAA---TTTC--AAG-CAAGTACGTAAATC-AAT----
 Anco ATAACTATTAATACCCCTTAATAAC--CTCAA---GAAAGACCAAACAAACC-AAT----
 Dmve ACAACCATAAATAACCTTTAATGACCTAAAAC--CACATA--GAACAAACC-AAT----
 Dmar CCAACCATTAATACCCCC--AATAACCTAAAG--CCAT--CTAAACAAACC-AAT----
 Anka ACAATTATTAATACCCCT--AATAACCTAAA--TACAATT--AATCAAACC-AAT----
 Moja AATACCCACTAACAACCTTAAGAC-----AA--GA--GTAAACCAAACC-AAT----
 Hoja ACAACTATTAATACCCCTTAATGACCTTAAGA--TAA--GACAAACCAAACC-AAT----
 Bede TCAAACATAAATAACCCCAAA--TACCCAAA-----CAAACAAACAAACC-AAT----
 Bsp TCAAACATAAATAACCCCAAACACCCCA--A--ACCTAACAAA-C-AAATC-AAT----
 Mysp CAA-ACATAAATAACCCCAATACCCCAAACA--AA--ACAAA-ACAAACC-AAT----
 Osja CTAAACATAAAT--AACCCCTAATACCTA---AACACATAAAACAAACC-AAT----
 Sgro CTAACTATAAATAAACCCCT--AATACCCCAAAC--CTAAAAT--AAACAAACC-AAT----
 Pzpa CTAAATATACTCAACAATTAATTAACCTAAA--CCTC--TCAACAAACC-AAT----
 Zeja TA-AATATTTTAAACAACAATAA--ACAAA--ACCC--AAACAAACC-AAT----
 Znne ACCAATATTTTAA-ACAAT-AAATAACATAAA--AACCC--CAAACAAACC-AAT----
 Zefa ACAAATATTTTAAACGATAAATAACCTAA-AA--ACTTTTTAA--CAAACC-AAT----
 Acni TTTAATACTACTAATAATA-GATAACCTAAA--CCCCAC--AA-CAAACC-AAT----
 Ncrh TTTAATACTACTAATAATA--GATAACCTAAA--ACCC-AT--AACAAACC-AAT----
 Agca ACCCTTATTAATTAACCCCAATACACCAACA--AACCTG--CAACAAACC-AAT----
 Hydy ATCAATCTAAATAACCCCG-AAGACACCACTA--TT--TAAATTACCAAACC-AAT----
 Gsac TTCAATCTTGATAACCCCAAAGGACACTTAAC--TTAAATT--AAACAAACC-AAT----
 Pevo ATAATTATTAATA-ACCC-AAATTTACTAAA--AACACA-C-AAACAAACC-AAT----
 Hiku -AAACTAAAATAACCCCTAACACCATAAAAA--GT--AAT--ATTAAAC-AAT----
 Inpa AACCA-CCATATTTAACCGAAAA-TAAACCAC--CTATATA-AAACAAACC-AAT----
 Auch CCAA-TATTAATACCCCTAACATACTACAAA-----TCACTAGACCAAATC-AAT----
 Fico TTCCATATAAATAACCCCTCATATCCTAA--A--TGACGACTAA-ACAAACC-AAT----
 Macs ACAACTATGAATACCCCTCAGACACTAGAAC--CTAAAT--AAACAAACC-AAT----
 Moal ACAATTAATAAT-AACCCACATTAATTACC--AAAAAC--CAATAAATC-AAT----
 Syma ACCACCATAACTAAACCCAAATACA--CTAAC--CA-TAACAAAACAAAT-AAT----
 Maf r CCACATTCATAACCCCTAAAACACCAAC--AC--C--ACCTCAAACAAACC-AAT----
 Dcpe CCCACCATTAATA-CCCC-TCATCACCCACA--AATCAA--TAAACAAATC-AAT----
 Dct i CTCAACATTAATACCCCT--CACACAGACA--AATTA-AC-AAACAAATC-AAT----
 Hehi ACCACTATTTATAACCCCAA--TACACGAGTG--TTTTAATTAACAAACC-AAT----
 Stam CTCAATATTAATAACCCCAATTTACTATTAA--CCTC--TAAACAAACC-AAT----
 Hogi CCCCTATAAATAACCCCT-AACACACTAAGA--CTTAATT--AAGCAAACC-AAT----
 Erzo ACCATTATTAATACCCCTAAGTACACTAGAG--TTTATTT--AAACAAACC-AAT----
 Hxot ACCCCTGTTAATAACCCCTAAGTACCCAGTA--TTTATTTT-AAACAAACC-AAT----
 Core AACCCCTGTTAATAACCCCT-AAATACCCAGT--ATTTAAATTAACAAACC-AAT----
 Apve ATCCATGTCAATAACCCCTAAATACACCAGTA--TTTATTTTAAACAAACC-AAT----
 Lat j ACTATCATAAATAACCCCAAAT-CACGCAT--TCTCCTA--AAACAAACC-AAT----
 Laja GTCAGTGTTAATAACCCCA--AATGCACCAAC--ATCATTATTAACAAATC-AAT----

Syja CCTATTATTAATAACCCCC - AATACCCTATTA - - ACATGTAAAAAGT AA ACC - A TT - - -
 Epme AACACCATAACTAACCCCAAAGA - CACGAATG - - TCTCCAC - - GAAC AA ACC - A TT - - -
 Grse ATCACTATCAATACCCCCTAATACAATCCACC - - - CACAATTTAATC AA ATC - A TT - - -
 Clja ATCACTATTTTTACCCAC - - - - AAATATCCTT - - AACCCCTATTAAT AA AAC - A TT - - -
 Ogcy TACCCTATAAATAACCCC - - - TAAGACATTAC - - CCCTAAACAAAAT AA ACC - A TT - - -
 Plna CCTTTTATTAATACCCCTAAAT - CATAACAAC - - CTAAACAAA - - C AA ACC - A TT - - -
 Lema AACATCATTAAATACCCCCA - AAAACACTAACG - - TTTTTC - - - AAAC AA ACC - A TT - - -
 Etzo ATCACCATTTATAACCCCT - - TAATACACTAAT - - GT - TATGTTTAAAC AA ACC - A TT - - -
 Apse TCCATTGTAAATAACCCCT - AACCCACACCTTA - - TACCCCTAAGACC AA ACC - A TT - - -
 Epde ATCACCATTAATATCCCCAAA - TACACCCCCC - - - CCAACA - AAC AA ACC - A TT - - -
 Slja CA - ATATAAACTAAACCCTAATACCCCTTAAC - - CC - - - ACCAAAAC AA ACC - A TT - - -
 Bsja ACCACTATCAATACCCCAAATACACCACCAG - - AC - TTAATAAAC AA ACC - A TT - - -
 Ecna AATAT - - - TAATAAACCCCTAAAT - CACCATA - - - AA ACTAT - - AAAT AA AAC - A TT - - -
 Cohi AATACTTCTACTAACCCCTAATACA - CTAAAA - - - A - T - ATTCAACT AA ACC - A TT - - -
 Caar GTAACCATGAATA - - ACCCAAAGCACTAAA - - CTT - - ATTCAAAC AA AAC - A TT - - -
 Came ACAAACATGAATAAACCCCAAACACTTCAAA - - - CTCAA - - TAAAC AA AGC - A TT - - -
 Mema ACCCCCATTAATAACCCC - TAATGCACAAACT - - TCCACTT - - AACT AA AAC - A TT - - -
 Lenu CCCCCTATAAATAACCCCTCACAGTCTTAA - C - - CAT - - AAAGATCT AA ACC - A TT - - -
 Brja CAATATTAATACCCCGAATACCCCTTCCCC - - C - - - CCCCCAAC AA ACC - A TT - - -
 Plma CCCCCTATATATAACCCCTAATACACCTCCTC - - - CTCTAAATAAAC AA ACC - A TT - - -
 Emst C - CCTCATTAATAACCCCCA - AACACACTGACA - - ACTCAA - CCAAAC AA ACC - A TT - - -
 Ptti CCC - CCATTAATAACCCCTAACACCATAGACT - - CACCCCTAA - - AC AA ATC - A TT - - -
 Losu AAAAATTTATGTAACCATAAATACCACTACTA - - C - - - TATAAGAAC AA AAC - A TT - - -
 Geoy TACCACATAAACTAAACCCCAAATTATCTG - - - AA ACTCCACAAAC AA ATC - A TT - - -
 Dipi ATACCCATTAATAACCCCTAAAACACTA - - - - - CACCGCGCCAAAC AA ACC - A TT - - -
 Pama ACCCCCATTAATAACCCCTAACATACTAACAT - - ATAACCA - - AA - C AA ATC - A TT - - -
 Leob CCCACTATAACTAACCCCAAAGA - CACGC - - A - - CCCCCACAAA - AC AA ATC - A TT - - -
 Neba ACCAC - ATTAATTAACCCCTAACACACTGTAA - - CCAACTC - - AAAC AA ATC - A TT - - -
 Pdpi ATAAATTTCACTA - ACCCA - ACATGCATGTAA - - ATTCAACTTGACT AA ACC - A TT - - -
 Nimi ATTCCCATCAATACCCCTAAAACA - CTCAA - - - ATTGTACTAAAC AA ACC - A TT - - -
 Uptr ATCAT - ATTAATA - ACCCC - TAAGACACTTAA - - CACCAA - CTAAAC AA ATC - A TT - - -
 Pesc ATAAATATTTATAACCCCA - AACACACCA - TA - - TCACAAAC - - AAC AA ATC - A TT - - -
 Baar CCCACCATTAATAACCCCAAATGCA - - CTAAC - - - ATTAAACTGAAT AA ACC - A TT - - -
 Moar - CACCCATTAATAACCCCAAACACA - - CTAAC - - - TAAACACTAAAC AA ACC - A TT - - -
 Toja ATCAAATAAATAAACCCCA - AAGACCCAAA - - - - CAAGTCT - AAC AA ACC - A TT - - -
 Chau AC - CATCTAAATACCCCCAATA - CACGCAAT - - ATATACC - - AAAC AA AAC - A TT - - -
 Chse ACCAATATCCATACCCCA - AACATATTACCT - - GTTTTCCT - TAAC AA ACC - A TT - - -
 Enar ATCCCTATTTATAACCCCT - AATACACCAACA - - TT - - CCCCTAAAC AA ACC - A TT - - -
 Hpty ACCATTAATT - - AACCCCA - AATACACTAATA - - TACTATTA - - AAC AA ACC - A TT - - -
 Nana - CCATATAAAATAACCCCT - AATTAACTACAC - - ACCC - - ACAAAC AA ATC - A TT - - -
 Mcst T - CTATATTAATAACCCCA - AATTCACGAATG - - CCCCCA - CTTAAC AA ACC - A TT - - -
 Rhox ATCAACATCCATACCCCAAAGACACTAA - CC - - CTAGAACAAA - AC AA ACC - A TT - - -
 Opfa ATCAATATTTATAACCCCAAACACACGAATAC - - TTACGTT - - AAAC AA ACC - A TT - - -
 Paar GCAAATATTTAT - - ACCCCTTCATATATCA - - - AATTTTTATTAAC AA ACC - A TT - - -
 Gozo ACCATTATTTATAACCCCACATGCACAAATGT - - TTTTACA - - AAAC AA ATC - A TT - - -
 Ackr AACCCGTGTTTATAACCCC - - - ACATCCCTTAG - - AACCCCTATAAAC AA ATC - A TT - - -
 Elev AAAATA - TTA ACTACCACTAATACACT - - - - - TAATTTAAACAA - C AA ATC - A TT - - -
 Trdu AACCCCTTATATATATCCC - CA - AACACACCA - - TTCTCTCAACAAC AA ACC - A TT - - -
 Amoc TCCCCTATCAATACCCCAAAGATACTCTAAA - - CACAA - - - - AAC AA AAC - A TT - - -
 Hame AGAACCCCTTCAATTAACCCACACACAG - TA - - AATTCACAAA - AC AA ACC - A TT - - -
 Chso ACCAT - - - AACTAACCCACATGCA - - C - - TA - - AATAAAGTTAAAC AA ACC - A TT - - -
 Lyto CCCCCTGTTAATAACCCCTAAG - TACTACTAGT - - - ATTTACATAAAC AA ACC - A TT - - -

Encr CCC-TTGTTAATAACCCCTAAGTACCCAGTA--TTTATATTAA-ACAAACC-AAT---
 Bvar AACACCATTAAT-ACCCCTAAATACCCTAATG--TGCAGTT--AAATAAATC-AAT---
 Noco ACCACCATTAATA-CCCC-AGATGCACAAC--CAAGA--TTAAACAAATC-AAT---
 Chsp AACA-TATTAATAAACCA--GAATGTATCA-T--ACATAACTAAACTAAACC-AAT---
 Arja CCC-CTGTTAATAACCCCTAACTACCCTAGTA--TTTATATTAA-ACAAACC-AAT---
 Pase ATAGCTATAAATAAACCCCTAAGACATCAAAGG--ACTAACT--AAACAAAC-AAT---
 Trel CAGAACAGGAATAACCCCAAAAACAGAAACAC--CTC--AATTAACAAACC-AAT---
 Lifa AACAATATTTATAGCCCCACAAATACTTA-CA--TAAATTTAA-ATAAACC-AAT---
 Acur ATCCACGTCAATAACCATTAATA-CCCTTAAA--ACCTCT--AAACAAAGC-AAT---
 Ampe CCCATCAATAACCCCTCAC-ACACGACACACA--AG--TGA--AACAAATC-AAT---
 Urja GCCAATTTACCTAACCCCA-AACATACCACAA--ACTAGA--AACTAAACC-AAT---
 Enet AACAATACCCCTACCCCTGATGC--TTTATG--CAAT-TA--AACTAAACC-AAT---
 Ptbr TTAATTAT--AAATATCT-TAGAATAACAT---AAAATATTAATCAAAAC-AAT---
 Safa CCCGACATTAATAAACCCGAAGAATCGCA--C--AAC--AATATATTAAAAC-AAT---
 Icae CCCAATATTTATAACCCCA-AACACACATCTC--CTC-CTATTAACAAACC-AAT---
 Asmi TAC----TGAATAAAACAT-AATAAACTAATT--CTTATA--AAATAAATC-AAT---
 Foal A--CTATTTTTAA-CCC-TATCATCAATTGAA--TAAGTGTATAAACAAATC-AAT---
 Drze ATAACCATCAATA-CCCA-AAATAACCTATT--TACTAAA--AACTAAACC-AAT---
 Rhas CCCAACATCAATAACCCC--TAACACCGAA--CCCAACACAAAACAAACC-AAT---
 Elac GTCAACATAGACTAACCC-AAATACCCTCCC--ATCCA--TTAACCAAACC-AAT---
 Kugu ACAAATTTAATAACCCCA-AAAACACTGACC--ACAACTTAAAA-CAAACC-AAT---
 Plor ACCCCCATTAATAACCCCA-AACCCACTTTAA--CTAACCT--AAACAAATC-AAT---
 Sgun ACCCCCATTCATACCCCAAA--TACACTAAT--TTACCTCAAAACAAACC-AAT---
 Zaco AACCCATCAATAACCCCAAA--TACACCAAC--ACCTCCTAAAACAAACC-AAT---
 Zbfl ACCCATATTAATAACCCCA--TACATTCTGAT--GTTAC-GTTAAACAAACC-AAT---
 Spba TCAACCATTAATT-AGCCCTAATCCACTATA-AAATACCCTAAGCTAAACC-AAT---
 Game CCCACTATAAATAACCCCAAAACGCAGCCTCC--CCGCATT--AAACAAACC-AAT---
 Thth CTCAATATAAATAACCCCAAA--CACACTACT--CCTCCTATAAACAAACC-AAT---
 Xigl ATCACTATTAATAACCCCGAA-AACACACTAA--ATTTATT-TACTAAACC-AAT---
 Hyja CCCAATATTAATAACCCCAAAAGACC-CCCC--CCCCGCTTAATCAAACC-AAT---
 Psan CCCAATATTAATAACCCCT-AATACACCACCT--CCCTAT-TTAACCAAACC-AAT---
 Cupa CCCAATATTCATA-AACCC-AAATATACGCCT--CCCCAA-TTAACAAACC-AAT---
 Mpch AACACTATTAATAACCCCT-CAAACCCTATAA--AT--ATAA--AACAAACC-AAT---
 Char ATCACCATAAATAACCCCAAAATACA-CAACCC--AATACACCAACTAAATC-AAT---
 Pser TCA-ACATAAATAACCCCAAAATACACAACCCC--CA--TCAA-CCAAACC-AAT---
 Prol ACCCATATAAATAACCCCT-AAAGCAGTAAC--ACCCACGT-AGCCAAACC-AAT---
 Plbi CCATTCATA--ACCCCT--AAAGCAGGAAA--CACCCACGTAGCTAAACC-AAT---
 Calu ACCCCCTTCAATAAACCCCAAAACACC--CACCA--A--TACACAAGTAAAAC-AAT---
 Papa GACCTTATAAATAAACCC- AACACACTCAAC--CAA--CAAACAAAAC-AAT---
 Suf r CCAAACATAAATA-ACCC-ATA-AACACTAC--AAAAT--AAAAACAAACC-AAT---
 Stci CTAAACATTAATAAACCCCT-TATTTACTCACA--ACA--CTAAACAAACC-AAT---
 Taru ACCACTATAAATAACCCCTAAGATA-CTTAAC--TA--AACAAAACAAATC-AAT---
 Rala ACCCCTATTTATAACCCCTAATAGCACTAAC--CCC--T-TAAACAAACC-AAT---

**

	2	3	3'	2'	!	HVR	!							
Scca	CTTCACC	CT	TAAGTA	--	TGGGCGA	CA	GAAACA	AG	GACCTC	-----	AGCGC	--	AATAGCTTA	
Muma	-TTAACC	TT	CTAGTA	--	TGGGTGA	CA	GAAACA	AT	AACTC	-----	AAGAGC	--	AATAGCTTA	
Erca	T-GTTAA	CT	CAAGTA	--	TAGGAGA	TA	GAAAA	AG	ACTA	-----	ATAGAGC	--	AATAGTTA-	
Pose	-TGTCAA	CT	TTAGTA	--	TAGGCGA	TA	GAAAA	AG	ATT	-----	TACAGAGC	--	TATAGCAAT	
Actr	TAAT-AC	CCC	CAGTA	--	TAGGCGA	TA	GAAAA	GC	ACA	-----	AAGCAGCGC	--	AATAGAGAA	
Scal	TAAT-CC	CC	CTAGTA	--	TAGGCGA	TA	GAAAA	GC	ACA	-----	AAGCAGCGC	--	AATAGAAAA	
Posp	-TAATTT	CCC	CAGTA	--	TAGGCGA	TA	GAAAA	GC	ACAA	-----	AACAGCGC	--	AATAGAGAA	
Atsp	T--CTAC	CCC	CAGTA	--	TAGGCGA	TA	GAAAA	GC	AAAAT	-----	TTGAGC	--	AATAGAAAA	
Leoc	T-GTAC-	CCC	CAGTA	--	TAGGCGA	TA	GAAAA	GC	AAAA	-----	TTTTGAGC	--	AATAGAAAA	
Amca	-TTTTCT	CC	CTAGTA	--	TAGGCGA	TA	GAAAA	GC	ATC	-----	CTTTAAAGC	--	TATAGAAAA	
Osbi	T-TTCCT	CC	CTAGTA	--	TTGGAGA	AA	GAAAA	GC	ATACT	-----	CTTGAGC	--	AATAG-AAA	
Pabu	C-TTCCA	TC	TTAGTA	--	TAGGAGA	TA	GAAAA	GA	AAAT	-----	TTTCGAGC	--	CACAAAAAT	
Hial	T-TCCA	CC	TTAGTA	--	TGGGCGA	CA	GAAAA	GC	AAAT	-----	TAGAGC	--	TATAGAGAA	
Elha	CTCC-CC	CC	TTAGTA	--	TGGGCGA	CA	GAAAA	GC	AAAA	-----	CCAGAGC	--	AATAGAAAA	
Mlcy	T-TCCC	TT	CTAGTA	--	TAGGAGA	CA	GAAAA	AA	GAG	-----	ACCAGAGC	--	AATAGAAAA	
Algl	TTTC-CT	TC	TTAGTA	--	TAGGCGA	TA	GAAAA	GC	AGAAT	-----	TTGAGC	--	AATAGAAGA	
Ptgi	T-TTCCA	CCC	CAGTA	--	TAGGCGA	TA	GAAAA	GC	AAAA	-----	CTTCAAGC	--	GATAGAAA-	
Alaf	TAAC-CT	CCC	CAGTA	--	TAGGCGA	TA	GAAAA	GC	AAA	-----	AATTTAAGC	--	AATAGAAAA	
Nock	TTAC-CT	CCC	CAGTA	--	TAGGCGA	TA	GAAAA	GC	AAA	-----	ATTTGAGC	--	GATAGAAAA	
Anja	C-TTCCC	CC	TAAGTA	--	TAGGTGA	TA	GAAAA	GC	ACAAA	-----	ACGCGC	--	AATAGAAAA	
Gyki	C-TACCC	CC	CTAGTA	--	TAGGTGA	TA	GAAAA	GC	TC	-----	CCCAGAGC	--	AATAGAAAA	
Syka	-CTTCCA	CC	TTAGTA	--	AGGGAGA	CA	GAAAA	GC	AAATC	----	TCTAGAGC	--	CATAGAAAA	
Opma	TTTC-CA	CC	TAAGTA	--	TAGGCGA	TA	GAAAA	GC	ACA	---	CACCTTGAAGC	--	TATAGAAAA	
Comy	C-TCCCA	CC	TTAGTA	--	TGGGCGA	CA	GAAAA	GC	ATA	-----	TTATAGAGC	--	CATAGAAAA	
Sasp	C-TTCCC	CC	CTAGTA	--	TGGGCGA	CA	GAAAA	GC	ATCA	-----	AGGAGC	--	AATAGAAA-	
Eupe	CTCC-CA	CC	TAAGTA	--	TAGGCGA	TA	GAAAA	GC	AAC	-----	TAAGAGC	--	GATAAAGAA	
Enja	T-GACCT	TC	CCAGTA	--	TGGGCGA	CA	GAAAA	GA	ATTC	----	CCAGAAGC	--	AATAGAAA-	
Same	C-GACCA	CCC	CAGTACC	--	GGGCGA	CA	GAAAA	GC	AAAA	-----	ATGACGC	--	TATAGACAA	
Chch	-TTACCG	CC	TAAGTA	--	CGGTGA	CG	GAAAA	GC	CAACTACACAAATAAGC	--	AATAGAAAT			
Grgr	TTAC-CA	CC	TGAGTA	--	TGGGCGA	CA	GAAAA	GC	TC	----	ACCAAAAAGC	--	CATAGAAAA	
Caau	C-TTTTA	CC	TGAGTA	--	TGGGAGA	CA	GAAAA	GC	TTC	-----	CACAAAGC	--	AATAGAAAC	
Cyca	T-TTTTA	CC	TGAGTA	--	TGGGAGA	CA	GAAAA	GC	TTCC	-----	ACAAAGC	--	GATAGAAA-	
Dare	A-TATTA	TC	CTAGTA	--	TGGGAGA	CA	GAAAA	GA	TA	---	AAATACTAAGC	--	AATAGAGAA	
Cost	T-TTCCA	CC	TTAGTA	--	CGGCGA	CC	AAAAA	GC	TTCC	-----	GTGAGC	--	AATAGAAA-	
Leec	TTTC-CA	CC	TTAGTA	--	CGGCGA	CA	GAAAA	GC	TA	-----	AACTTAAGC	--	AATAAAGAG	
CrIa	TTTC-CA	CC	TTAGTA	--	CGGCGA	CC	GAAAA	GC	AT	----	CCGATTAAGC	--	GATAGAAAA	
Clmc	CTCC-TG	CC	TTAGTA	--	CGGCGA	CA	GAAAA	GC	CAA	---	TAAACCAAAGC	--	AATAGAGAA	
Phin	C-TCCCA	CC	TTAGTA	--	CGGCGA	CC	AAAAA	GC	CACA	-	TCTTCTTAAGC	--	AATAGTAAA	
Icpu	CTAC-CG	CC	TTAGTA	--	TGTGTGA	CA	GAAAG	GC	CA	---	C--	CACAAAGC	--	AATAATAAA
Psto	TTAC-CG	CC	CAAGTA	--	TGTGAGA	CA	GAAAA	GC	CACA	-----	CTAAAGC	--	TATAGAAAA	
Cora	TTTC-CG	TC	CAAGTA	--	TATGAGA	TA	AAAAA	GA	CACA	-----	AAAAGC	--	AATAGATAA	
Eisp	T-TACTG	CC	TTAGTA	--	CGGCGA	CC	GAAAA	GC	CACC	-	ACATTATAAGC	--	GATAGAAA-	
Apal	-TTCTG	CC	TTAGTA	--	TGGGCGA	CA	GAAAA	GC	CACC	-	A-CCCAAAAGC	--	AATAGAAAC	
EsLu	TTTC-CT	CC	TTAGTA	--	TAGGCGA	TA	GAAAA	GC	AAATA	-----	CCGAGC	--	AATAGAAAA	
Dape	T-TTCCT	CC	TTAGTA	--	TAGGCGA	TA	GAAAA	GC	ATCC	-----	TCTGAGC	--	AATAGAAAA	
Glse	T-TTCCC	CC	TTAGTA	--	CGGCGA	CA	GAAAA	GC	GAATA	-----	CGAGC	--	AATAGAAAA	
Naar	T-TTCCC	CC	TTAGTA	--	CGGCGA	CA	GAAAA	GC	GACC	-----	CTGAGC	--	AACAGAGAA	
Baoc	TTTC-CC	CC	TTAGTA	--	TGGGCGA	CA	GAAAA	GC	GAC	-----	CC-TGAGC	--	AACAGAGAA	
Opso	T-TTCCC	CC	TTAGTA	--	CGGCGA	CA	GAAAA	GC	GACC	-	C-----	TGAGC	--	AACAGAGA-
Alte	TTTC-CA	CC	TTAGTA	--	TGGGAGA	CA	GAAAA	GC	AAC	-----	CACAAAGC	--	AATAGAGAA	
Plap	T-TTCCG	CC	CTAGTA	--	TGGGAGA	CA	GAAAG	GC	AACC	-----	ACAAAGC	--	AATAGAGA-	

Plal T-TTCCA**CC**TGAGTA--**CGGGCGA****CC**GAAAG**CC**AGCA-----AATTGAGC--GACAGAGA-
 Sami T-TTCCA**CC**TTAGTA--**CGGGCGA****CC**GAAAA**CC**GCA-----ATTTGAGC--CATAGAAAA
 Rere T-TTCCA**CC**TTAGTA--**TGGGAGA****CA**GAAAG**CC**ACATT-----TGAGC--AATAGAGAA
 Gama T-TTCCA**CC**TGAGTA--**AGGGAGA****CA**GAAAA**CC**ACC---TT---GAAGC--AACAGAGA-
 Onmy T-TTCCA**CC**TTAGTA--**GGGGCGA****CC**GAAAA**CC**AGAT--AA---TTGAGC--AACAGAAAA
 Sasa T-TTCCA**CC**TTAGTA--**CGGGCGA****CC**GAAAA**CC**AAACAAT---TTGAGC--AACAG-AAA
 Cola TTTC-CC**CC**TTAGTA--**TGGGCGA****CA**GAAAA**CC**GAA----TAAT-TGAGC--AACAGAGAA
 Dita -TTTCCA**TC**CTAGTA--**CGGGAGA****CC**GAAAG**CA**GCA-----CTTTTGAGC--GACAGAGAT
 Gogr TTTC-CA**CT**CTAGTA--**TGGGAGA****CA**AAAAG**AA**TT---AG-CCCTGAGC--AACAGAGAG
 Chsl T-TTCCT**CC**CTAGTA--**CGGGCGA****CA**GAAAA**CA**AGAT--AT---TGAGC--TATAGTAA-
 Atja T-TTCCC**CC**TAAGTA--**TGGGAGA****CA**GAAAA**CC**AAAA---CCTTAGAGC--AATAGAAAA
 Iido TTTC-CC**CC**CAAGTA--**TGGGAGA****CA**GAAAA**CC**AA---AACT---AGAGC--AATAGAAAA
 Auja TTTC-CC**CC**TTAGTA--**CGGGCGA****CA**GAAAA**CC**GAA---CGCACGGCGC--AACAGACAA
 Chag GTTTATT**CC**CAAGTA--**CGGGCGA****CC**GAAAA**CC**AAAACGA---CGGAGC--AATAGAAAC
 Hami C-TTCCT**CC**TAAGTA--**TGGGCGA****CA**GAAAA**CC**ACA--GT---AGGAGC--TACAGATAA
 Saun C-TTCCT**CC**CCAGTA--**CGGGCGA****CA**GAAAA**CC**ATAGCA-----GGAGC--TACAGACAA
 Nema T-TTCCC**CC**CTAGTAC-**TGGGCGA****TA**GAAAA**CC**GCCT-----ACGGAGC--TACAGAGA-
 Disp TTAC-CT**CC**CCAGTACC**CGGGCGA****CA**GAAAA**CC**AAATCC-----CGGAGC--AATAGAAAA
 Myaf TTAC-CT**CC**TCAGTA--**CGGGCGA****CA**GAAT**CC**AAA---T-CA-AGAGC--AATAGAGAA
 Lagu TTTC-CC**CT**TAAGTA--**TGGGAGA****CA**GAAAT**CC**GA-----ACAGAAGC--AATAGAGAC
 Trtr C-TCCCA**CT**TTAGTA--**TGGGCGA****TA**GAAAC**CC**GTC-----ATTGGAGC--CATAGACTA
 Zucr T-TCCCG**CC**CTAGTA--**TAGGTGA****CA**GAAAT**CC**AA-----ACAGGAGC--AATAGAACT
 Pxja T-TTCCA**CC**CTAGTA--**TGGGCGA****CA**GAAAA**CC**AAC-----ACGGAGC--AACAGAAAA
 Pxlo T-TTCCA**CC**CTAGTA--**TGGGCGA****CA**GAAAA**CC**AACA--C---GGAGC--AACAGAAA-
 Pctr -TTTCCA**CC**CCAGTA--**TGGGAGA****CA**GAAAA**CC**AA-C--A-A---GGAGC--AATAGACAG
 Apsa C-TACCA**CC**ACAGTA--**TGGGAGA****CA**AAAA**CC**AC-----CTCGGAGC--AATAGACAA
 Cabe C-TCCCC**CC**TAAGTA--**TAGGAGA****TA**GAAAA**CC**ACAC--G---ATGAGC--AATAGAGAA
 Bzze T-TTCCG**CC**CGAGTA--**TAGGAGA****TA**GAAAA**CC**ACCA--GA---CGGAGC--AATAGATAA
 Siim T-TTCCC**CC**CGAGTA--**CAGGAGA****TC**GAAAG**CC**GACA--CA--GAGAAGC--TACAGATAA
 Ctru TTTC-CA**CC**CCAGTA--**CGGGCGA****CA**GAAC**CC**ACC-----TGCGAGAGC--GATAGACAA
 Dpbr -CTCCCA**CC**CTAGTA--**TGGGCGA****CA**GAAAA**CC**AT-----CTAGAGAGC--AATAGAGAA
 Caki TATA-AA**CC**CCAGTA--**TGAGAGA****CA**AAAA**CC**AT-----ATT--AGAGC--TATAGACAT
 Phja TTAA-AC**CC**TTAGTA--**TGGGCGA****CA**GAAAA**CC**AA---A---AAAGAGC--TATAGATAA
 Brsp C-TATTT**CC**CTAGTA--**TGGGCGA****CA**GAAAA**CC**ACCC-----CGAGAGC--TATAGACAA
 Gamo TTAC-CC**CC**TGAGTA--**CGGGCGA****CA**GAAAA**CC**AGA---AA---AGAGC--AACAGACAA
 Lolo T-TACCC**CC**TAAGTA--**TGGGCGA****CA**AAAA**CC**AAAA-----AAGAGC--AACAGATA-
 Batr C--CTCA**CC**ATAGTA--**TGGCCGA****TA**GAAAA**CC**TTA-----AATGAAC--TATACAACA
 Prmy TTAC-CG**CT**CTAGTA--**TGGACGA****TA**GAAAA**CC**GCC-----TATGAAC--TATAGAAAA
 Loli T-TTCCC**CC**TTAGTA--**CGGGCGA****CA**GAAAA**CC**ACCTT-----CGAGC--GATAGACTA
 Loam T-TTCCC**CC**CTAGTA--**TGGGCGA****CA**GAAAA**CC**ACCT--T---AGTGAGC--AATAGAAA-
 Chab T-TTCCC**CC**CTAGTA--**TAGGCGA****TA**GAAAA**CC**GCC-----TTAGAGC--GATAGATAT
 Chto TTTC-CC**CC**CTAGTA--**TAGGCGA****TA**GAAAA**CC**GC---C--TTAG-AGC--GATAGATAT
 Majo TTAC-CC**CC**TTAGTA--**TGGGCGA****CA**GAAAA**CC**AAT-----AAGGAGC--AATAGAGAA
 Hlst TTTC-CG**CC**CTAGTA--**CGGGAGA****CA**GAAAA**CC**AC---TAAT--TGAGC--AATAGAGAA
 Clpe -TTTCT**CC**TTAGTA--**TAGGCGA****TA**GAAAA**CC**ATAC-----CGGAGC--GATAGAGAC
 Mlmr C-TCCCC**CT**TTAGTA--**TAGGCGA****TA**GAACA**CC**ACAT-----A-AGAGC--AATAGAAGA
 Crcr T-TACCC**CC**TTAGTA--**TGAGCGA****CA**GAAAT**CA**AATCAC-----CGGAGC--AATAG-AAA
 Muce T-TACCC**CC**TTAGTA--**TGAGCGA****CA**GAAAT**CA**AATC--ACC---AGAGC--AATAGAAA-
 Bege TTAC-CG**CT**TTAGTA--**CAGGAGA****TC**AAAA**CC**AAC---TA---GGCGC--AATAGAAAA
 Mela T-TTCCA**CT**TTAGTA--**TAGGTGA****TA**GAAAA**CC**ACATT-----CGACGC--AATAG-AGA
 Hats C-TTCCC**CC**TAAGTA--**TAGGAGA****TA**GAAAA**CC**AACC-----AGGCGC--GATAGAAAA
 Orla T-TTCCT**CC**ATAGTA--**TGGGAGA****CA**GAAAG**CC**ACT-----AAGGAGC--TATAGACAA

Cosa T-TTCCC**TT**ATAGTA--**TATGAGA****TAGAAA****TA**AGCT-----T-TGGAGT--AACAGAAC
 Exsp -TTTCCC**CT**CTAGTA--**TGGGAGA****CAGAAAG****AG**AAC-----AA--GGCGC--AATAGAGAA
 Depa T-TTCCT**TT**TTAGTA--**TGAGAGA****CAGAAA****AT**ATA-----ACAGAGC--TATAGATAC
 Rima CTAC-CC**CC**TAAGTA--**TGGGCGA****CAGAAA****GC**AC-----CT-TAAAAGC--TATAGAAAA
 Fuol TTTC-CT**CC**CTAGTA--**CGTGCGA****CAGAACA****GC**AAA---TACGCGAGCGC--TATAGATAA
 Gmaf TTTC-CT**CC**TTAGTA--**AAGGCGA****TAGAAA****GC**AA---AACACGGAGC--CATAGAAGC
 Xeei T-TTCCT**CC**TAAGTA--**AAAGTGA****CAGAAA****GC**ATCA--ACTATTAGAGC--CATAGAAAA
 Pros TTCC-CT**TC**CTAGTA--**CGGGAGA****CAGAAA****GAG**A---A--TCAGGAGC--AATAGAAAC
 Scmi TTCC-CT**TC**TTAGTA--**TGGGAGA****CAGAAA****G**AAA-----TCAGGAGC--AATAGAAAT
 Rolo TTTC-CC**TC**TTAGTA--**CGGGCGA****CCGAAA****G**AGAC-----CCAGGAGC--AATAGAAAT
 Cere T-TACCC**TC**TTAGTA--**CGGGCGA****CCGAA**CG**G**AGACC--A---GCGAGC--AATAGAATT
 Daga TT-TCCC**TC**CTAGTA--**CGGGCGA****CCGAAA****G**AGACC-----CAGCGAGC--GATAGATAT
 Anco T-TTCCC**CC**TTAGTA--**TGGGCGA****CAGAAA****GC**ATCCA-----GGAGC--AACAGAAAA
 Dmve T-TTCCC**CC**TTAGTA--**TGGGCGA****CAGAAA****GC**ACCC-----A--GGAGC--AACAGAGAA
 Dmar TTTC-CC**CC**TTAGTA--**TGGGCGA****CAGAAA****GC**ACCC---A---GGAGC--AACAGAAAA
 Anka TTTC-CC**CC**TTAGTA--**TGGGCGA****CAGAAA****GC**ATC-----AAGGAGC--AATAGAAAA
 Moja -TTTCCC**CC**TTAGTA--**TGGGCGA****CAGAAA****GC**ACCC-----AGGAGC--AATAGAAAA
 Hoja -TTTCCC**CC**TTAGTA--**TGGGCGA****CAGAAA****GC**AC-----CTATGGAGC--AACAGAAAA
 Bede T-TCCCC**TC**TTAGTA--**TGGGAGA****CAGAAA****G**AGAA-----TTAGGAGC--AATAGAAA-
 Bosp TT-TCCC**TC**TTAGTA--**CGGGAGA****CAGAAA****G**AGAA-----ATTAGGAGC--AATAGAAAC
 Mysp -TTCCCA**TC**CTAGTA--**TGAGCGA****CAGAAA****G**ACT-----CGCGAGC--AATAGAGAC
 Osja T-TCCCA**TC**CTAGTA--**TGAGCGA****CAGAAA****G**AGACA--CG---CGAGC--GATAGAAA-
 Sgro T-TTCCG**TC**CTAGTA--**TGTGCGA****CAGAAA****G**AAC-----TATGCGAGC--GATAGAGAC
 Pzpa T-TTCCC**CC**TAAGTAA-**CAGGCGA****TAGAAA****GC**GA---CCT---GGAGC--AACAGACGA
 Zeja TTTC-CC**CC**TAAGTAA**TAGGCGA****TAGAAA****GC**GAC-----CATTGAGC--AATAGATGA
 Znne TT-TT-**ACC**CTAGTA--**AAGGAGA****TAGAAA****GC**AAA---C--A--GGAGC--AATAGATAA
 Zefa TT-TT-**ACC**TTAGTA--**AAGGCGA****TAGAAA****GC**AC-----CCACGGAGC--AACAGATAA
 Acni TTTC-CC**CC**CAAGTA--**AAGGCGA****TAGAAA****GC**GAC-----CAGGAGC--TATAGACAA
 Ncrh TTTC-CC**CC**TAAGTA--**AAGGCGA****TAGAAA****GC**GACC-----AGGAGC--TATAGACAA
 Agca TTTC-CA**CC**CTAGTA--**TAGGCGA****TAGAAA****GC**AAG---CCCAGGAGC--AATAGAGAA
 Hydy TTCC-CT**CC**TTAGTA--**TAGGCGA****TAGAAA****GC**AC-----TCA-CGGCGC--AATAGAGAA
 Gsac TTTC-CA**CC**TTAGTA--**TAGGCGA****TAGAAA****GC**A-----CATATGGCGC--TATAGAGAA
 Pevo T-TTT-**ACC**CAAGTA--**TCGGCGA****GAGAA****GC**AC-----CAACAGCGC--TATAGAAAC
 Hiku -TTATA**ACC**CTAGTA--**AGGGAGA****CTGAAA****GC**AAA-----AATGAAGC--TACAAAAC
 Inpa CTCACAC**TC**TTAGTA--**AAGGCGA****TAGAAA****G**AGAA---CA---CGGAGC--AATAGACAA
 Auch T-TTCCA**CC**TAAGTA--**TGAGCGA****CAGAAA****GC**ACAC--ATTTTTAGAGC--AATAGAGA-
 Fico T-TACCC**CC**CTAGTA--**TGGGCGA****CAGAAA****GC**AC-----AAGGGAGC--TATAGAGAA
 Macs T-TTCCC**CC**CAAGTA--**CGGGCGA****CAGAAA****GC**GACC--AA---TTGAGC--GATAGAGAA
 Moal CTAC-CC**AT**TTAGTA--**TGTGCGA****CAGAAA****AC**AAA-----TTTAAGC--TATAGAAAA
 Syma T--AACC**TC**CAAGTA--**TGGAAGA****CAGAAA****G**ACTATA-----TACGC--AATAG-AGA
 Maf r -TTAT-**ACC**CTAGTA--**TGGGCGA****CAGAAA****GC**AAAT--A-T---GGAGC--AATAGAATA
 Dcpe TTTC-CA**CC**TAAGTA--**TGGGCGA****CAGAAA****GC**AA---C--TTCGGAGC--GATAGAGAA
 Dct i TTTC-CA**CC**TAAGTA--**TGGGCGA****CAGAAA****GC**A-----ACTTTGGAGC--AATAGAGAA
 Hehi T-TTCCC**CT**TTAGTA--**TGGGCGA****CAGAAA****AC**GACC-----CAGGAGC--AATAGAGA-
 Stam T-TTCCC**CC**CAAGTA--**TGGGCGA****CAGAAA****GC**GC-----CACAGGAGC--GATAGAGAA
 Hogi TTTC-CC**CC**CTAGTA--**TGGGAGA****CAGAAA****GC**AAC-----AAAGAAGC--AATAGAAAA
 Erzo TTTT-CC**CC**TAAGTA--**TAGGCGA****TAGAAA****GC**GCT-----TA-CGGCGC--AATAGAGAA
 Hxot TTTC-CC**CC**TTAGTA--**TAGGCGA****TAGAAA****GC**GCC-----CA-CGGCGC--AATAGAGAA
 Core TTTC-CC**CC**TTAGTA--**TAGGCGA****TAGAAA****GC**AC---A--AGAGCGC--AATAGAGAA
 Apve T-TCCCC**CC**TTAGTA--**TAGGCGA****TAGAAA****GC**G-----CCCCGGCGC--AATAGAAAA
 Lat j TTTATCA**CC**CTAGTA--**TGGGCGA****CAGAAA****GC**ACTC--TG---TGGAGC--GATAGAAAA
 Laja TTTC-CC**CC**TTAGTA--**TGGGCGA****CAGAAA****GC**GA-----CCAGGAGC--AATAGAGAA

Syja TTTC-CC**CC**TTAGTA--TGAACGA**CA**AAAA**CC**AC-----CC--TAGAGC--AACAGAGAA
 Epme TTT-CCC**CT**TTAGTA--TGGGCGA**CA**GAAA**AG**AA----CA---CGGAGC--GATAGAGAA
 Grse T-TTCCT**CC**CTAGTA--TGGGCGA**CA**GAAA**GA**ACATA-----CGGAGC--AATAG-ACA
 Clja CTCC-CC**CC**TTAGTA--TAGGCGA**TA**GAAA**CC**AA----A---TAAGAGC--AACAGAGAA
 Ogcy TTTC-CA**CC**CAAGTA--TGGGAGA**CA**GAAA**CC**AA----AA-TTGAAGC--AATAGAAAA
 Plna TT-TCAC**CT**TAAGTA--TAGGCGA**TA**GAAA**AC**ATC-----TAGGAGC--GATAGAAAA
 Lema TT-TCCA**CC**TAAGTA--TGGGCGA**CA**GAAA**CC**AACT-----A-CGGCGC--AATAGATAA
 Etzo TTTC-CC**CC**TGAGTA--TGTGCGA**CA**GAAA**CC**GC---C--CGTGGAGC--AATAGAGAA
 Apse TTTC-CC**CC**TAAGTA--TGGGCGA**CA**GAAA**CC**AT---AAGTC-GGAGC--AACAGAAAC
 Epde T-TTCCC**CC**CTAGTA--TGGGCGA**CA**GAAA**CC**G----CCCGA-GGAGC--AATAGAGAA
 Slja -TTTCCC**CC**TTAGTA--TGGGCGA**CA**GAAA**CC**AACT-----CGAGGAGC--TATAGAGAA
 Bsja TTCCC**CT**CTAGTA--TAGGTGA**TA**GAAA**GA**GAC-----ACAAGGCGC--AACAGAGAA
 Ecna T-TGCAC**CC**TTAGTA--TAGGAGA**TA**GAAA**CC**AATA--TA---CGGAGC--AATAGAAAA
 Cohi C-ATCTT**CC**CTAGTA--TAGGCGA**TA**GAAA**CC**AATA-----AAGAGC--AACAGATAT
 Caar -TTTCT**CC**CTAGTA--TGGGCGA**CA**GAAA**CC**A---C-CTTCGGGCGC--AATAGAACA
 Came T-TTCCC**CC**TAAGTA--TGGGAGA**CA**GAAA**CC**AC---CACAAGGCGC--AATAGAAAA
 Mema C-TACCC**CC**TCAGTA--CGGGCGA**CC**GAAA**CC**GCCC--CG---TGGAGC--AATAGATAT
 Lenu -CTTCCC**CC**TTAGTA--TAGGAGA**TA**GAAA**CC**A---A--CAGTGGCGC--CATAAAAAA
 Brja -TTTCCC**CC**TTAGTA--TAGGAGA**CA**GAAA**CC**AACA--A-C---AGAGC--AATAGAGAA
 Plma T-TACCC**CC**TCAGTA--TGGGCGA**CA**GAAA**CC**AA---CAGTTG-GAGC--AATAGAGAA
 Emst TTTC-CC**CC**TAAGTA--TAGGCGA**TA**GAAA**CC**GAC---CAC---GGAGC--AATAGAGAA
 Ptti -TTTCT**CC**CTAGTA--CAGGCGA**TA**GAAA**CC**AAC-----TGT-GGAGC--TACAGAAAA
 Losu -TTTCCC**CC**CTAGTA--CGGGAGA**CA**GAAA**CC**AACA--A-T--TGAAGC--CATAGACAA
 Geoy T-TTCCT**CC**CAAGTA--CGGGCGA**CC**AAAA**CC**AAGC--CT---AAAGC--AATAGAAA-
 Dipi T-TTCCC**CC**TTAGTA--TAGGCGA**TA**GAAA**CC**AACT--CCT---GAGC--AATAGAAA-
 Pama T-TTCCC**CC**CAAGTA--TAGAGCA**CA**GAAA**CC**AACT-----ACGGAGC--AACAGAGAA
 Leob T-TTCCC**CC**TAAGTA--TAGGCGA**TA**GAAA**CC**AA-----TTAGGAGC--GATAGAAAA
 Neba TTCC-CT**CT**CTAGTA--TGTGCGA**CA**GAAA**AC**AGC---AA-T-AGCGC--TATAGAAAA
 Pdpi CT-TT-T**CC**CTAGTA--TAGGCGA**TA**GAAA**CC**AA---C-CCAGGGAGC--GATAGAGAA
 Nimi T-TTCCT**CC**CAAGTA--CGGGCGA**CA**GAAA**CC**AACCG-----TCGCGC--CATAG-AGA
 Uptr TTAC-CC**CC**TTAGTA--TGGGCGA**CA**GAAA**CC**AA---CAA---GGAGC--AATAGAGAA
 Pesc T-TCCCC**CC**CTAGTA--TGGGCGA**CA**GAAA**CC**AG---ACCAG--GAGC--TATAGAGAA
 Baar T-TTCCC**CC**TTAGTA--TGGGAGA**CA**GAAA**CC**GCCA-----AGGAGC--AATAGAGAA
 Moar TT-TCCC**CC**TGAGTA--TGGGCGA**CA**GAAA**CC**GACT-----GT-GGAGC--AACAGAGAA
 Toja T-TTCCT**CC**CTAGTA--TAGGCGA**TA**GAAA**CC**AC-----TTAAGGGAGC--TATAGAAAA
 Chau T-TTCCC**CT**TTAGTA--TAGGCGA**TA**GAAA**AC**TAC--CC---CGGAAC--GACAGAAAA
 Chse TTTC-CC**CT**TTAGTA--TAGGCGA**TA**GAAA**AC**ATC---TCCG---GAGC--AATAGAGAA
 Enar TTTC-CC**CC**TGAGTA--TGGGCGA**CA**GAAA**CC**AA---CTG-TGGCGC--TATAGAGAA
 Hpty T-TTCCC**CC**TTAGTA--CGGGCGA**CA**GAAA**CC**GC---CCGAG--GAGC--AATAGAGAA
 Nana TTTC-CT**CC**CTAGTA--TGGGCGA**CA**GAAA**CC**AC-----AAAGGAGC--TATAGAGAA
 Mcst TTAC-CC**CT**CTAGTA--TGGGCGA**CA**GAA**AG**ACT---TAG---GGAGC--TATAGAGTA
 Rhox T-TTCCC**CC**TTAGTA--TGGGCGA**CA**GAAA**CC**AA-----CCATGGAGC--AATAGAAAA
 Opfa T-TTCCC**CC**CTAGTA--TGGGCGA**CA**GAAA**CC**GACT--ACTAATGGAGC--GATAGAGAA
 Paar T-TTCCA**CT**TTAGTA--TGGGAGA**CA**GAAA**AC**AACT--C---CAGCGC--AATAGAGA-
 Gozo T-TTCCC**CC**TTAGTA--TGGGCGA**CA**GAAA**CC**AAC---TC---CGGCGC--AATAGAGAA
 Ackr TTTC-CC**CT**TTAGTA--CAGGCGA**TC**GAAA**AC**AA---C---TTAGAGC--TATAGAAAA
 Elev T-TTCCC**CC**TTAGTA--TGGGTGA**CA**AAAA**CC**ATC---ATG---GCGC--AATAGAGA-
 Trdu TTCC-CA**CC**TAAGTA--CGGGCGA**CC**GAAA**CC**AC---CTAG---GAGC--AACAGAGAA
 Amoc T-TTCCT**CC**CTAGTA--CGGGCGA**CC**GAA**AG**AACT--AG-----GAGC--AATAGAAAA
 Hame T-TTCCA**TC**CTAGTA--TAGGAGA**TA**GAAA**GA**GC-----CTA-GGAGC--AATAGAGAT
 Chso T-TTCCC**CC**TAAGTA--TGGGCGA**CA**GAAA**CC**AAC---ATT---GGAGC--AATAGAGAA
 Lyto T-TTCCC**CC**TTAGTA--TAGGCGA**TA**GAA**AC**CC--CC---GGCGC--AATAGAAA-

Encr	- TTTCCC CC TTAGTA - TAGGCGA TA GAAA CC GAC - - - - ACC - GGCGC - - AATAGAGAA
Bvar	TTCC - CC TTAGTA - TGGGAGA CA GAAA CC GAC - - - - T - TC - GGAGC - - AATAGAGAG
Noco	TTAC - CC TTAGTA - TGGGCGA CA GAAA CC GAC - - - - TT - A - - GGAGC - - AATAGAGAA
Chsp	CTCC - CC TCAGTA AC CAGGCGA TA GAAA CC AC - - - - C - - ACCGAGC - - TATACAAAA
Arja	- TTTCCC CC TTAGTA - TAGGCGA TA GAAA GA GA - - - - - CTAAGGCGC - - AATAGAGAA
Pase	T - TCAAC CC TTAGTA - TGGGAGA CA GAAA CC GACC - - CC - - - GGGAGC - - TATAGAGAA
Trel	- TTACCC CT TTAGTA - TCGGTGA GA GAAA AC ACA - - - - - C - CA - GAGC - - AACAGAACA
Lifa	T - TCCAC CC CTAGTA - CGGGCGA CC AAAA CC GA - - - - - CAACAGAGC - - AATAGAGAA
Acur	T - TCCCT TT TTAGTA - TGGGCGA CA GAAA AC AATT - - AG - - - - - AAGC - - AATAGAAAA
Ampe	T - TTCCC CC CTAGTA - TGGGCGA CA GAAA CC AT - - - - CCCGATTGAGC - - AATAGAGAA
Urja	TTTC - CC TAAGTA - TCGGAGA CA GAA CC GTC - - - ACCAAT - GAGC - - GATAGAGAA
Enet	CTCC - CT TTAGTA - CAGGCGA TC GAAA AC AAC - - - - - TATAAGC - - AATAGAAAG
Ptbr	T - TACCC TT TGAGTA - TAGGCGA TA AAA AA GAAA - - T - - - - - GAAGC - - TATA - ATA -
Safa	- TTATTG CT GAAGTA - TGGGCGA CA GAA AC AA - - - - - AATAGAGC - - AACAGACAA
Icae	T - TACCC CC TCAGTA - TGGGCGA CA GAAA CC AACT - - - - A - TTGGAGC - - GATAGAGAA
Asmi	TCTTAAC CT AAAGTA - TAGGAGA TT GAAT GC ATAA - - - - - AAGGAGC - - TATAGACAA
Foal	T - TTCCG CC TTAGTA - TGGGAGA CA AAAA CC CC - - - - - TTAGAAGC - - GACAGAAAA
Drze	T - TTTTA CC TTAGTA - TGGGAGA CA GAAA CC AAAAG - - - - T - - - - GAGC - - AATAGAAAA
Rhas	TTTC - CC TTAGTA - TGGGCGA CA GAAA CC AA - - - - A - - - - CAGGAGC - - AATAGAAAA
Elac	TTTC - CT TTAGTA - TGGGCGA CA GAAA CC ACC - - - - CA - - - - GGCGC - - CATAGAAAA
Kugu	TTCC - CT CCAGTA - TAGGCGA TA GAAA CC AC - - - - - ACA - CGAAGC - - TATAGAAAA
Plor	T - TATCC CC TGAGTA - TAGGCGA AA GAAA CC AACC - - - - - ATCGGCGC - - AATAGAAAA
Sgun	T - TACCC CC TTAGTA - TAGGCGA TA GAAA CC ACAT - - - - - AAGGAGC - - AACAGAGA -
Zaco	TTTC - CC TTAGTA - TGGGCGA CA GAAA CC CACT - - - - - ACGGAGC - - TATAGATAA
Zbfl	TTTC - CC CTAGTA - TAGGTGA TA GAAA CC AA - - - - - ATACGGAGC - - AACAGAGAA
Spba	T - CTCCC CT TAAGTA - CGAGCGA CC GAAA AC GACC - - - - - CGCGGAGC - - GATAGAGA -
Game	T - TACCC CC TCAGTA - TGGGCGA CA GAAA CC AACT - - AT - - - - AGGAGC - - AATAGAGAA
Thth	T - TACCC CC CTAGTA - TGGGCGA CA GAAA CC AACC - - A - - - - TTGGAGC - - GATAGAGA -
Xigl	C - TCCCC CC TTAGTA - TGGGCGA CA GAAA CC AACTA - - - - - GCGGAGC - - AATAGAGAA
Hyja	T - TACCC CC CCAGTA - TGGGCGA CA GAAA CC AACTAT - - - - - CGGAGC - - TATAG - AGA
Psan	TTAC - CC CTGAGTA - CGGGCGA CA GAAA CC AAC - - - - TACC - - GGAGC - - GATAGAAAA
Cupa	TTTC - CC TTAGTA - TGGGCGA CA GAAA CC AA - - - - TATACAGGAGC - - AATAGAGAA
Mpch	TTTC - CC CTAGTA - TGGGCGA CA GAAA CC AAC - - - - GTCT - AAGAGC - - AATAGATAA
Char	T - TTCCA CC CTAGTA - CGGGAGA CA GAAA CC ACACA - - - - - CGGAGC - - TATAG - AAA
Pser	- TCTCCC CC CTAGTA - TAGGCGA TA GAAA CC AA - - - - - CCACGGCGC - - AATAGAAAA
Prol	C - TTCCA CC CTGAGTC - CAGGCGA TA AAAA CC AAAT - - - - - CCGGAGC - - AATAGAAAA
Plbi	CTCC - CC TAAGTC - CAGGCGA TA AAAA CC AA - - - - - AT - TTGGAGC - - AATAGAAAA
Calu	- CTCCCT CC CTAGTA - TAGGCGA CA GAAA CC AAAA - - A - - - - - GGAGC - - TATAGCACT
Papa	TTTT - - TC TTAGTA - CGGGAGA CC AAAA CC AC - - - - AC - CC - - GGAGC - - TATAGAGAA
Sufr	TTTC - CA CTCTAGTA - TAGGTGA TA GAAA AC ACC - - - - A - - T - - AGAGC - - AATAGAAAA
Stci	TTTC - CT TTAGTA - TAGGAGA TA GAA AC AT - - - - A - C - T - - TGAGC - - GATAGAAAA
Taru	T - TTCCA CC CTAGTA - TAGGAGA TA GAAA CC AACTA - - - - - GGAGC - - TATAG - ATA
Rala	- TTTCTT CC CCAGTA - TAGGCGA TA GAAA CC GA - - - - - CTA - GGAGC - - CATAGAGAA

*** ** **

	4	4'		;	HVR	;	
Scca	-TGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAATAAAT	---AATTA-AAGTACTAA
Muma	-TGTA	CCGCAAGG	AAAA	-GCTG	AAAAAGAAA	-TGAATA	-AATCATT---AAGTACTAA
Erca	TAGTA	CCGCAAGG	GAAT	-GCTG	AAGAGAAA	-TGAATAAAT	---AG-TTAAAGCGCTAC
Pose	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAATA	-AATCGTTA---AAGCATAAC
Actr	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAAAT	TGAAACAACT	---TG-TTAAAGCAATAA
Scal	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAAAT	TGAAACAACT	---TGTTA-AAGCAATAA
Posp	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAAAT	TGAAACA	-ACTTGTTA---AAGCAACAA
Atsp	CAGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACC	---CATCAAAGCACCAA
Leoc	CAGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACC	---CATCAAAGCACTAA
Amca	-AGTA	CCGCAAGG	GAAAC	-GATG	AAGAGAAA	-TGAATA	-ACCCGTTA---AAGCACCAA
Osbi	AAGTA	CCGCAAGG	GAAAC	-GCTG	AAAAAGAAA	-TGAACAAC	---CATTCAAGCACAAA
Pabu	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACC	---CATTCAAGCATAAA
Hial	-AGTA	CCGTAAGG	GAAA	-GCTG	AAGAGAAA	-TGAATAACT	---C-ATTAAGCACAAA
Elha	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAG	-TGAACAACCCGTAA	---AAGCAAAGA
Mlcy	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAAACC	---C-ATAAAGCAAAAA
Algl	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAGG	-TGAATAGTT	---CG-TAAAAGCATAAA
Ptgi	AAGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACC	---CA-TAAAAGCAATAA
Alaf	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAATAACCCGTTA	---AAGCACAAAC
Nock	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAATAACC	---CG-TCAAAGCATAAA
Anja	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAATCCAT	-AT---AAGCAAAAA
Gyki	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACC	---C-GATAAAGCAAAAA
Syka	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACA	-ACGCATAT---AAGCAACAA
Opma	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACT	---CATAA--AGCAATAG
Comy	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAA	-ACCCATAA---AAGCATAAA
Sasp	AAGTA	CCACAAAGG	GAAA	-GTTG	AATAGAAA	-TGAATAAAT	---AT-CACAGGCAATAT
Eupe	--GTA	CCGCAAGG	GAAA	-GTTG	AAAAAGAAA	-TTAATAAACACCAA	---AAGCAACAT
Enja	AAGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAATAACC	---CA-TTAAAGCACAGA
Same	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAG	-TGAATAACG	---CACTAAAGTAAATA
Chch	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACA	-ACTCATCA---AAGCGACAA
Grgr	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACC	---CATT-TAAGCCTAGG
Caau	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAG	-TGAATA	-ACCCATAT---AAGCAGTAA
Cyca	TAGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAATAACC	---CA-TATAAGCACTAA
Dare	-AGTA	CCGCAAGG	GAAAC	-GCTG	AAGAGAAA	-TGAATAACC	---C-GTAAAGCAATAA
Cost	AAGTA	CCGCAAGG	GAAA	-GCTG	AAGAGCAA	-TGAACAAGT	---CA-TTTAAGCACAAA
Leec	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGTAA	-TGAATAATC	---CA-TATAAGCACAAA
CrIa	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACC	---CATA-TAAGCACCAAC
Clmc	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACC	---CA-TTAAAGCCAAAA
Phin	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACCTCAT	-CA---AAGCACAAAC
Icpu	-AGTA	CCGCAAGG	GAAAC	-GCTG	AAGAGAAG	-TGAACAAAT	---AATT-AAAGCACAAAC
Psto	-AGTA	CCGCAAGG	GAAAC	-GCTG	AAGAGAAA	-TGAATAAAT	---CATT-AAGCCTCAC
Cora	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAATAAACCATCA	---AAGCACAAAC
Eisp	AAGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACC	---CA-TATAAGCACAAA
Apal	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAATA	-ATTACACA---A-GCACAAT
EsLu	-AGTA	CCGTAAGG	GAAA	-GCTG	AAAAAGAAG	-TGAACAAGT	---CATT-CAAGCCTTGA
Dape	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACCT	---CATATAAGCCCTAA
Glse	-AGTA	CCGCAAGG	GAAA	-GCTG	AAAAAGAAA	-TGAACAACC	---CATCCAAGCTTAGA
Naar	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACC	---C-ATCAAAGCCTAAA
Baoc	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACCCATTA	---AAGCCTAAA
Opso	AAGTA	CCGCAAGG	GAAAG	-GCTG	AAAAAGAAA	-TGAATAACC	---TA-TTAAAGCCTAAA
Alte	-AGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACCCATTT	---AAGCCTAAA
Plap	AAGTA	CCGCAAGG	GAAA	-GCTG	AAGAGAAA	-TGAACAACC	---CA-TTTAAGCCTAAA

Plal AAGTA**CC**GCA**AGG**GAAA - GCTGAAAAAGAAG - TGAACAACC --- CA - TATAAGCACCAT
 Sami - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAG - TGAATA - ACCTATAC --- AAGCACTGA
 Rere - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAACAACC --- C - ATCTAAGCGCCTA
 Gama AAGTA**CC**GTA**AGG**GAAA - GTTGAAAGAGTGA - TGAAGAAGTC --- CA - TATAAGCACAGT
 Onmy - AGTA**CC**GCA**AGG**GGAA - GCTGAAAGAGAAT - TGAATAACC --- CATTTAAGCCTAGA
 Sasa AAGTA**CC**GCA**AGG** - AAA - GCTGAAAGAGAAA - TGAACAACC --- CATTTAAGCCTAGA
 Cola - AGTA**CC**GCA**AGG**GAGA - GCTGAAAGAGAAC - TGAACAACCCATTT --- AAGCCTAGA
 Dita - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGGAA - TGAACA - ACTCACTC --- AAGCCCAG
 Gogr - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAACAACC --- CACT - TAAGCCTAGT
 Chsl A - GTA**CC**GCA**AGG**GAAG - GCTGAAATAGAAG - TGAATAACT --- TG - TTTAAGCCCGAA
 Atja - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAATA - ATTTATTC --- AAGCCTAAA
 lido - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAACAAT --- TA - TTCAAGCCTGAA
 Auja - AGTA**CC**GCA**AGG**GAAA - GTTGAAAAAGAAA - TGAATAACCCCTTT --- AAGCCCCAA
 Chag - AGTA**CC**GCA**AGG**GAAA - GCTGAAAAAGAAG - TGAATAAAC --- CTCCAAAGCCTAAA
 Hami - AGTA**CC**GCA**AGG**GAAT - GCTGAAAAAGAAA - TGAAGAATTAT - CTTTTAAAGCCTTAA
 Saun - AGTA**CC**GCA**AGG**GAAC - GCTGAAAAAGAAA - TGAAGAACTATTTATC --- AAGCAAAGA
 Nema AAGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAACAAC --- AC - CCCAAGCCAAAT
 Disp - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAG - TGAACAAC --- ACCCC - AAGCTGTGA
 Myaf - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAACAATACCCC --- AAGCCATAA
 Lagu CAGTA**CC**GCA**AGG**GAAA - GTTGAAAGAGATA - TGAAG - AAGC --- CATT - CAAGCAAAGA
 Trtr - AGTA**CC**GCA**AGG**GAAA - ACTGAAATATTAATGAAAAC --- ACTCAAGCAAAC
 Zucr - AGTA**CC**GCA**AGG**GAAA - GCTGAAAAATCCAATGAAAAT --- ACTTAAGCGTAGA
 Pxja - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAACAAC --- TGTTTAAGCCGCAA
 Pxlo AAGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAACAAC --- TG - TTTAAGCCACAA
 Pctr - AGTA**CC**GCA**AGG**GAAA - GTTGAAAGAGAAA - TGAAGAAA - ACTCATCT --- AAGCCAATG
 Apsa - AGTA**CC**GCA**AGG**GAAA - GCTGAAAAAGAAG - TGAACA - ACTCATACA --- GCATAAA
 Cabe - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAG - TGAACAAC --- CATGCAAGCCCTGA
 Bzze - AGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAATAAAC --- CAGGAAAGCCCAGA
 Siim - AGTA**CC**GCA**AGG**GAAC - GATGAAAGAGAAA - TGAACAACC --- CATAAAGCCCTAA
 Ctru - AGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAACAACCCAGTA --- AAGCCCAGA
 Dpbr - AGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAACA - AATTAGTA --- AAGCCCAAA
 Caki - AGTA**CC**GCA**AGG**GAAA - ACTGAAAAAGAAA - TGAACAAT --- CATT - AAGTACTGA
 Phja - AGTA**CC**GTA**AGG**GAAA - GCTGAAAAAGAAA - TGAATAAAC --- CATT - TAAGCGCAGA
 Brsp - AGTA**CC**GCA**AGG**GAAA - GCTGAAAAAGAGA - TGAATAGATCTC - TT --- AAGTTTTAT
 Gamo - AGTA**CC**GCA**AGG**GAAC - GCTGAAAAAGAAA - TGAATAAACCCATTT --- AAGACCAA
 Lolo AAGTA**CC**GCA**AGG**GAAC - GCTGAAAAAGAAG - TGAATAAAC --- CA - TTTAAGCACCGA
 Batr - AGTA**CC**GCA**AGG**AAAA - GCTGAAAGACCC - TCAATGAAACAAGTAAT --- TAGCACTAA
 Prmy - AGTA**CC**GCA**AGG**GAAA - GCTGAAAAAGAAT - TGAAGAA - T --- AA - TTTAAGCACAAA
 Loli - AGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAAGAACCCCA - CG --- ACGTTTTAAA
 Loam AAGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGATA - TGAAGAAGCC --- CA - GTGAAGTTTAGA
 Chab - AGTA**CC**GCA**AGG**GAAC - ACTGAAAGAGAAA - TGAATAACT --- C - AGCAAAGTAATAA
 Chto - AGTA**CC**GCA**AGG**GAAC - ACTGAAAGAGAAA - TGAATAACT --- C - AGCAAAGTAATAA
 Majo - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAG - TGAATAAAT --- CAGTTTAAGCATAAA
 Hlst - AGTA**CC**GCA**AGG**GAAA - GATGAAAGAGTAA - TGAACAACC --- A - ACAAAGCAATGA
 Clpe - AGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAATA - ACCCAG - A --- AAGTACTAA
 Mlmr - AGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAACAACC --- CTGTAGAAGTAACAA
 Crcr AAGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAATAACC --- ATCCAAAGTTACAA
 Muce AAGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAATAACC --- AT - CCAAAGTTACAA
 Bege - AGTA**CC**GCA**AGG**GAAC - GCTGAAAAAGAAA - TGAACAACG --- CA - GTAAGGTAACAT
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 Hats - AGTA**CC**GCA**AGG**GAAC - GCTGAAAGAGAAA - TGAATAATT --- CAGTAAAGCACAAAC
 Orla - AGTA**CC**GCA**AGG**GAAA - GCTGAAAGAGAAA - TGAATAAAT --- C - AGTCAAGAGAAGT

Cosa -AGTA**CC**GCA**AGG**GAAC-GCTGAAAAAGAAA-TGAAAAA---CCAGTA---AAGCAAAGA
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 Fuol -AGTA**CC**GTA**AGG**GAAT-GCTGAAAGAGAAA-TGAAACAACC---CAGTC-AAGCACAGA
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 Bede CAGTA**CC**GCA**AGG**GAAC-GCTGAAAGAGAAA-TGAAACAAC---CATTTTAAGCCCAA
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 Sgro -AGTA**CC**GCA**AGG**GAAA-GCTGAAAAAGAAA-TGAAATAAAC---C-ATTCAAGTCAAAA
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 Gsac -AGTA**CC**GCA**AGG**GAAC-GCTGAAAGAGAAA-TGAAACAACCCAGAC---AAGCTAAGA
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 Core -AGTA**CC**GCA**AGG**GAAT-GCTGAAAGAGAAA-TGAAACAAGC---CAGT-GAAGCCTAAG
 Apve -AGTA**CC**GCA**AGG**GAAC-GCTGAAAGAGAAA-TGAAACAACCCAG-TA---AAGCCTAAA
 Lat j -AGTA**CC**GCA**AGG**GAAC-GCTGAAATAGAGA-TGAAACAGCC---CAGTAAAGCCCTAA
 Laja -AGTA**CC**GCA**AGG**GAAC-GCTGAAAAAGTAAATGAAAGAACC---CAGTA-AAGCATAGA

Syja -AGTA**CC**GCA**AGG**GAAC-GCTGAAAGAGAAA-TGAAAAACCC---AG-TTTAAGCCTAAA
 Epme -AGTA**CC**GCA**AGG**GAAT-GCTGAAAACTAAATGAAATAAAC---AAGTGAAGCCCAA
 Grse AAGTA**CC**GCA**AGG**GAAC-CCTGAAAGAGAAA-TGAAACAAGT---CAGTAAAGCCCAA
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 Plna -AGTA**CC**GCA**AGG**GAAT-GCTGAAAGAGAAA-TGAAATA-ACCCAGTT---AAGTCCAAA
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 Bsja -AGTA**CC**GCA**AGG**GAAC-GCTGAAAAAGTAA-TGAAACA-ACCCAGTA---AAGCTTTAA
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 Pama -AGTA**CC**GCA**AGG**GAAC-GCTGAAAGAGGAG-TGAAACAACC---CAGTAAAGCCTAGA
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 Toja -AGTA**CC**GCA**AGG**GAAA-GCTGAAAGAGTGA-TGAAACAGCC---C-AGTAAAGCCTAAA
 Chau -AGTA**CC**GCA**AGG**GAAC-GCTGAAAGACACA-TGAAACAGGA---CAAT-AGGCCTAAA
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 Paar AAGTA**CC**GCA**AGG**GAAC-GCTGAAAGAGAAA-TGAAATAACC---CA-GTAAAGCCTTAA
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 Trdu -AGTA**CC**GCA**AGG**GAAA-GCTGAAAGAGTAA-TGAAATAACC---CAGT-AAAGCACTAA
 Amoc -AGTA**CC**GCA**AGG**GAAA-GCTGAAAGAGAAA-TGAAACAACC---CAGTAAAGCCCAA
 Hame -AGTA**CC**GCA**AGG**GAAG-GCTGAAAGAGAAA-TGAAATA-ATCCAGAA---AAGCCTAAA
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 Lyto AAGTA**CC**GCA**AGG**GAAC-GCTGAAAGAGAGA-TGAAAAAGAC---CA-GTAAAGCCTAAA

Encr -AGTA**CC**GCA**AGG**GAAT -GCTGAAAGAGAAA -TGAAACA -ACCCAGTG - - - AAGCCTAAG
 Bvar -AGTA**CC**GCA**AGG**GAAA -GCTGAAAAAGGAA -TGAAACAACCCAGTA - - - AAGCCTTAA
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 * * * * *

	5	5'	6	HVR
Scca	AAA--GCA-G-AG-ATTAACC	CTC	-GTACC-TTTGGCATCATGAT	TTAAT TAGAA--AAA
Muma	AAA--GCA-G-AG-ATTACAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC TAGAA--AAA
Erca	ACA--GCA-G-AG-ATCAAAT	CTC	GGTACC-TTTTGCATCATGAT	CTAGT AAGTT-A-TA
Pose	ACA--GCA-G-AG-ATAAAAC	CTC	-GTACC-TTTTGCATCATGGT	CTAGC AAGTC-AGAT
Actr	AAA--GCA-A-AG-ATTAATA	CTI	-GTACC-TTTTGCATCATGAT	TTAGC CAGTT-CTTA
Scal	AAA--GCA-A-AG-ATTAATA	CTI	-GTACC-TTTTGCATCATGAT	TTAGC CAGTT-CTTA
Posp	AAA--GCA-A-AG-ATTAATA	CTI	-GTACC-TTTTGCATCATGAT	TTAGC CAGTT-CTTG
Atsp	AAA--GCA-G-AG-ATTAATA	CTC	-GTACC-TTTTGCATCATGAT	TTAGC TAGTC-TA-C
Leoc	AAA--GCA-G-AG-ATTAATA	CTC	-GTACC-TTTTGCATCATGAT	TTAGC CAGT--CTA
Amca	AAA--GCA-A-AG-ATTAATA	CTI	-GTACC-TTTTGCATCATGAT	TTAGC CAGAC-ACAC
Osbi	AAA--GCA-G-AG-ATTAACA	CTC	-GTACC-TTTTGCATCATGAT	CTAGC TAGCA-TAAA
Pabu	AAA--GCA-G-AG-ATTTAGC	CTC	-GTACC-TTTTGCATCATGAC	TTAGC CAGAA--TAC
Hial	GAA--GCA-G-AG-ATTAAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC CAGTA-AAAT
Elha	AAA--GCA-G-AG-ATTAAGT	CTC	-GTACC-TTTTGCATCATGAC	TTAGC TAGCA-CCAA
Mlcy	AAA--GCA-G-AG-ACGCAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC TAG-A-TCAA
Algl	AAA--GCA-G-AG-ACTAAGT	CTC	-GTACC-TTTTGCATCATGAT	TTAGT TAGTG--TAA
Ptgi	AAA--GCA-G-AG-ACTAAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC TAGTA-AGAT
Alaf	AAA--GCA-G-AG-ACTAAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGT AAGTA-CAA-
Nock	AAA--GCA-G-AG-ATTAACA	CTC	-GTACC-TTTTGCATCATGAT	TTAGC AAGTA-CAA-
Anja	AAA--GCA-G-AG-ACTAAAA	CTC	-GTACC-TTTTGCATCATGGT	TTAGC AAGTA-AAAA
Gyki	AAA--GCA-G-AG-ATTAGAC	CTC	-GTACC-TTTTGCATCATGAT	CTAGC AAGAA-A-GC
Syka	AAA--GCA-G-AG-CTAAACC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC AAGCA-CACA
Opma	AAA--GCA-G-AG-ATTAATA	CTC	-GTACC-TTTTGCATCATGAT	TTAGC AAGTA-TAAC
Comy	AAA--GCA-G-AG-ATTAATA	CTC	-GTACC-TTTTGCATCATGAT	TTAGC AAGCA-AAAC
Sasp	AAT--GCA-A-AG-ACTAAAA	CTI	-GTACC-TTTTGCATCATGAT	TTAGC AAGTT-GAGT
Eupe	AAA--GCA-G-AG-ATTAATA	CTC	-GTACC-TTTTGCATCATGAT	TTAGC AAGTA--CAA
Enja	GAA--GCA-G-AG-ATCACCT	CTC	-GTACC-TTTTGCATCATGAT	TCAGC AAGTT-A-AC
Same	AAA--GCA-GTAG-ATTACAC	CTI	-GTACC-TTTTGCATCATGAT	CTAGC CAGTA-AT-T
Chch	AAA--GCA-G-AG-ATTAATA	CTC	-GTACC-TTTTGCATCATGAT	CTAGC CAGCA-TAC-
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Caau	AAA--GCA-A-AG-ATTAAAC	CTI	-GTACC-TTTTGCATCATGAT	TTAGC CAGTA--CAC
Cyca	AAA--GCA-A-AG-ATTAAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC CAGTA-C-AC
Dare	AAA--GCA-A-AG-ATTAAAC	CTI	-GTACC-TTTTGCATCATGAT	TTAGC CAACA-CC-A
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Clmc	AAA--GCA-G-AG-ACTAACC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC CAGCA-GCCG
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Psto	AAA--GCA-G-AG-ACTAAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC TAGC--CCTT
Cora	AAA--GCA-G-AG-ACTAAAA	CTC	-GTACC-TTTTGCATCATGAT	TTAGC TAGT--TATT
Eisp	AAA--GCA-G-AG-ATACAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC CAGCA-CC-C
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Dape	AAA--GCA-G-AG-ATAAAAC	CTC	-GTACC-TTTTGCATCATGCT	TTAGC TAGCA--AAC
Glse	AAA--GCA-G-AG-ATTACCC	CTI	-GTACC-TTTTGCATCATGAT	CTAGC CAGCA--AAC
Naar	AAA--GCA-G-AG-ATTAACC	CTI	-GTACC-TTTTGCATCATGAT	CTAGC CAGCA-AA-C
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Alte	AAA--GCA-G-AG-ATAAAC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC CAGCA-TTAT
Plap	AAA--GCA-G-AG-ATCAGCC	CTC	-GTACC-TTTTGCATCATGAT	TTAGC CAGTA-CCAT

Plal	AAA--GCA-A-AG-ATTAAGCTT-GTACC-TTTTGCATCATGATCTAGCCAGA--ATAC
Sami	AAA--GCA-A-AG-ATTTAACTT-GTACC-TTTTGCATCATGATCTAGCCAGTA--AAC
Rere	GAA--GCA-A-AG-ATTAGCTT-GTACC-TTTTGCATCATGATCTAGCCAGAA--TAC
Gama	GTA--GCA-G-AG-CCTAGCTCTC-GTACC-TTTTGCATCATGATTTAGCCAGTA-TAGC
Onmy	GAA--GCA-G-AG-ATTAATCTC-GTACC-TTTTGCATCATGATTTAGCCAGCA--CAC
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Cola	AAA--GCA-G-AG-ATTAATCTC-GTACC-TTTTGCATCATGATTTAGCCAGCA-AAC-
Dita	GAA--ACA-G-AG-ACACAACCTC-GTACC-TTTTGCATCATGGTTAGCCAGAA-A-CAC
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Chsl	AAA--ACA-G-AG-ATAAAGCTC-GTACC-TTTTGCATCATGAAATAGCCAGAA-TA-C
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lido	AAA--GCA-G-AG-GCTAAACCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-AC-C
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Myaf	AAA--GCA-G-AG-ATAACCCCTC-GTACC-TTTTGCATCATGATTTAGCCAGAA-CCCC
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 Osja GAA--GTA-A-AG-ATTTAAACTT-GTACC-TTTTGCATCATGTT TTAGC CAGCA-CCCC
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 Hehi AAA--GCA-G-AG-ATTTACCCTC-GTACC-TTTTGCATCATGAT TTAGC TAGCG-TGAC
 Stam AAA--GCA-G-AG-GCTAACCTC-GTACC-TTTTGCATCATGAT TTAGC CAGTG-TTGA
 Hogi AAA--GCA-G-AG-ATTAACCCTC-GTACC-TTTTGCATCATGAT TTAGC CAGTG-TAAC
 Erzo GAA--GCA-G-AG-ATTAAGCTC-GTACC-TTTTGCATCATGAT TTAGT GAGTG-TACA
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 Core AAA--GCA-G-AG-ATTAAGCTC-GTACC-TTTTGCATCATGAT TTAGC AAGTG-TACC
 Apve AAA--GCA-G-AG-ATAAAACCTC-GTACC-TTTTGCATCATGAT TTAGC AAGTG-TACA
 Latj AAA--GCA-G-AG-ATTAGACCTC-GTACC-TTTTGCATCATGAC TTAGC TAGTA-CC-C
 Laja AAA--GCA-G-AG-ATTTAAACTC-GTACC-TTTTGCATCATGAT TTAGC TAGTA-AACC

Syja AAA--GCA-G-AG-ACTTTACCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-ATCT
 Epme AAA--GCA-G-AG-ACATTACCTC-GTACC-TTTTGCATCATGATTTAGCAAGTG-CAAC
 Grse GAA--GCA-G-AG-ATTTACCTC-GTACC-TTTTGCATCATGATTTAGCAAGAG-AAAA
 Clja AAA--GCA-G-AG-ACTAAACCTC-GTACC-TTTTGCATCATGATTTAGCAAGT-A-AAA
 Ogcy AAA--GCA-G-AG-ACCCACCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-ACCC
 Plna AAA--GCA-G-AG-ACTAACCCTC-GTACC-TTTTGCATCATGCTTTAGCAAGTA-CTAA
 Lema AAA--GCA-G-AG-ATTTTTCTC-GTACC-TTTTGCATCATGATTTAGCAAGAAATTAC
 Etzo AAA--GCA-G-AG-ATATAACCTC-GTACC-TTTTGCATCATGATTTAGCAAGCG-TAAC
 Apse AAA--GTA-G-AG-TTTAATCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-GCAG
 Epde AAA--GCA-G-AG-ATTATAGCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-AAAT
 Slja ACA--GCA-G-AG-ATTCTCCCTC-GTACC-TTTTGCATCATGATTTAGCATAGTA-AACC
 Bsja AAA--GCA-G-AG-ATTCCAACTT-GTACC-TTTTGCATCATGATTTAGCAAGTA-AACC
 Ecna AAA--GCA-G-AG-ATATAACCCTC-GTACC-TTTTGCATCATGAACTAGCAAGTA-AA-A
 Cohi AAA--GCA-G-AG-ATTACCCCTC-GTACC-TTTTGCATCATGATTTAGCATAG-C-AACA
 Caar AAA--GCA-G-AG-ATTTTCCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-C-CT
 Came AAA--GCA-G-AG-ATTACTCTC-GTACC-TTTTGCATCATGATTTAGCAAGCA--CAT
 Mema AAA--GCA-G-AG-ATTAACCCTC-GTACC-TTTTGCATCATGATTTAGCAAGCA--CCC
 Lenu AAA--GCA-A-AG-ATTAATCTT-GTACC-TTTTGCATCATGATTTAGCATAGCA--TAA
 Brja AAA--GCA-G-AG-ATCCCCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-CCCC
 Plma AAA--GCA-G-AG-ATTTAACCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-ATAC
 Emst AAA--GCA-G-AG-ATTTTAACTC-GTACC-TTTTGCATCATGATTTAGCAAGAA-AAAT
 Ptti AAA--GCA-G-AG-ATATAGCTC-GTACC-TTTTGCATCATGACTTAGCAAGTA--ACC
 Losu AAA--GCA-G-AG-ATTAACACTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-AAAC
 Geoy AAA--GCA-G-AG-ACTCACCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-ACCA
 Dipi AAA--GCA-G-AG-ATTTTAACTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-CA-C
 Pama AAA--GCA-G-AG-ATCAAAACTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-AC-C
 Leob AAA--GCA-G-AG-ATAATTCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-CC-C
 Neba AAA--GCA-G-AG-ATTCGCCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-ACAC
 Pdpi AAA--GCA-G-AG-ATAAACCTT-GTACC-TTTTGCATCATGATTTAGCATAGTA-CAA-
 Nimi AAA--GCA-G-AG-ATTTACACTC-GTACC-TTTTGCATCATGAGTTAGCAAGAA-AATC
 Uptr AAA--GCA-G-AG-ATTAAAACTC-GTACC-TTTTGCATCAGGCTTAGCATAGTA-CCCA
 Pesc AAA--GCA-G-AG-CTACCCCCTC-GTACC-TTTTGCATCATGAACTAGCAAGTA-CTAC
 Baar AAA--GCA-G-AG-ATTTCAACTC-GTACC-TTTTGCATCATGATTTAGCAAGCA-AAAC
 Moar AAA--GCA-G-AG-ATTTTAACTC-GTACC-TTTTGCATCATGATTTAGCAAGAA-AAAG
 Toja AAA--GCA-G-AG-ATCAAAACTC-GTACC-TTTTGCATCATGATTTAGCAAG-A-ACAT
 Chau AAA--GCA-G-AG-ATTTAAACTC-GTACC-TTTTGCATCATGATACAGCAAGAA-AACT
 Chse AAA--GCA-G-AG-ATTCTAGCTC-GTACC-TTTTGCATCATGAACTAGCAAGTA-AAGT
 Enar AAA--GCA-G-AG-ATTTTTACTC-GTACC-TTTTGCATCATGTTTAGCATAG-A-CAAC
 Hpty GAA--GCA-G-AG-ATTTTAGCTC-GTACC-TTTTGCATCATGATTTGGCTAGCA-ATAC
 Nana AAA--GCA-G-AG-ATTTGAGCTC-GTACC-TTTTGCATCATGATTTAGCAAGCA-AA-T
 Mcst AAA--GCA-G-AG-ATTCAGGCTC-GTACC-TTTTGCATCATGATTTAGCAAGAA-CTAT
 Rhox AAA--GCA-G-AG-ATTC AACCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-ACCC
 Opfa AAA--GCA-G-AG-ATTC AACCTC-GTACC-TTTTGCATCATGATTTAGTATAGTA-ATAA
 Paar AAA--GCA-G-AG-ACTTCACCTC-GTACC-TTTTGCATCATGACTAGCAAGAA-ACCC
 Gozo AAA--GCA-G-AG-ATTCTAACCTC-GTACC-TTTTGCATCATGATTTAACATAGAA-TACC
 Ackr AAA--GCA-G-AG-ACCCTC-CTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-AA-C
 Elev AAA--GCA-G-AG-CATAGTGCTC-GTACC-TTTTGCATCATGTTTAGCATAGAA-ATAT
 Trdu AAA--GCA-G-AG-ATTTCCCCTC-GTACC-TTTTGCATCATGATTTAGCAAGAA-AGCC
 Amoc AAA--GCA-G-AG-ACACAACCCTC-GTACC-TTTTGCATCATGATTTAGCATAGTA-TACC
 Hame AAA--GCA-A-AG-ACTAACCCTT-GTACC-TCTTGCATCATGATTTAGCATAGCA-ATAA
 Chso AAA--GCA-G-AG-ATTA AAGCTC-GTACC-TTTTGCATCATGAACTAGCAGAGA--ATAA
 Lyto AAA--GCA-G-AG-ATTA AAGCTC-GTACC-TTTTGCATCATGATTTAGCAAGTG-TAAC

Encr	AAA--GCA-G-AG-ATCAAAACTC-GTACC-TTTTGCATCATGATTTAGCAAGTG-TAAC
Bvar	GAA--GCA-G-AG-ATAAAACCTC-GTACC-TTTTGCATCATGATCTAGCTAGTG-AAAC
Noco	AAA--GCA-G-AG-TTAAACCCTC-GTACC-TTTTGCATCATGATTTAGCCAGTG-ATTT
Chsp	AAA--GCA-G-GC-ATAACCCCCC-GTACC-TTTTGCATCATGAAATTAATGAGAA-CACT
Arja	AAA--GCA-G-AG-ATTATGCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTG-TACC
Pase	AAA--GCA-G-AG-ATACACTCTC-GTACC-TTTTGCATCATGATTCAGCAAGCA-ACCA
Trel	AAA--GCA-G-AG-AGCC--TCTC-GTACC-TTTTGCATCATGATTTAGCCAGAA-CAAG
Lifa	AAA--GCA-G-AG-ATGAAACCTC-GTACC-TTTTGCATCATGATTTAGCTAG-A-ACGA
Acur	GAA--GCA-A-AG-TTTAAGCCTT-GTACC-TTTTGCATCATGGTTAGCAAGAA-ATAT
Ampe	AAA--GCA-G-AG-ATTTAAACCTC-GTACC-TTTTGCATCATGATTTAGCTAGAA-AGCC
Urja	AAA--GCA-A-AG-ACTAACTCTT-GTACC-TTTTGCATCATGATTTAGCCAGCA-CC-C
Enet	AAA--GCA-A-AG-ATCAGCCCTT-GTACC-TTTTGCATCATGAAATAGCCAGAAAATTA
Ptbr	AAA--GCA-A-AG-ATTAATCTT-GTACC-TTTTGCATCATGGTTAGCTAGTC-AGAA
Safa	AAA--GCA-G-AG-ACTTACTCTC-GTACC-TTTTGCATCATGATTTAGCGAGCC-ATCT
Icae	AAA--GCA-G-AG-ATTTTACTC-GTACC-TTTTGCATCATGATTTAGCTAGTA-CTTC
Asmi	AAA--ACA-G-AG-ATTTATCCTC-GTACC-TTTTGCATCATGATTTAGTGAGCA--T-C
Foal	AAA--GCA-G-AG-CTTAGTCTT-GTACC-TTTTGCATCATGGTTAGTGAGCG-TAAA
Drze	AAA--GCA-G-AG-ACTAATCCTC-GTACC-TTTTGCATCATGATTTAGCAAGCA-ATAT
Rhas	AAA--GCA-G-AG-ATTAATACTC-GTACC-TTTTGCATCATGACTAGCCAGCA-AACC
Elac	AAA--GCA-G-AG-CTTAAGCCTC-GTACC-TTTTGCATCATGACTAGCCAGTA-AGCC
Kugu	AAA--GTA-G-AG-ACCAAACCTC-GTACC-TTTTGCATCATGATTTAGCCAGTA-ACCC
Plor	AAA--GCA-G-AG-ATCACACCTC-GTACC-TTTTGCATCATGATTTAGCTAGAAAAC-C
Sgun	AAA--GCA-G-AG-AT-ACCCCTCGTACC-TTTTGCATCATGATTTAGCTAGAA-AGCC
Zaco	GAA--GCA-G-AG-ATTAGAACCTC-GTACC-TTTTGCATCATGATTTAGCCAGTA-CTCA
Zbfl	AAA--GTA-G-AG-ATTC AACCTC-GTACC-TTTTGCATCATGATTTAGCTAGAA-AAGT
Spba	AAA--GCA-G-AG-ATTTAACCTC-GTACC-TTTTGCATCATGATTTAGCCAGTA--TCC
Game	AAA--GCA-G-AG-ATTACACCTC-GTACC-TTTTGCATCATGATTTAGCTAGTA-TTAC
Thth	AAA--GCA-G-AG-ATTTTACTC-GTACC-TTTTGCATCATGATTTAGCTAGTA-CTAT
Xigl	AAA--GCA-G-AG-ATTTGACCTC-GTACC-TTTTGCATCATGATTTAGCCAGCA-CC-C
Hyja	AAA--GCA-G-AG-ATTTTACCTC-GTACC-TTTTGCATCATGATTTAGCTAGTA-CCCC
Psan	AAA--GCA-G-AG-ATAATACCTC-GTACC-TTTTGCATCATGATTCAGCTAGTA-ATTC
Cupa	AAA--GCA-G-AG-ATTTTACTC-GTACC-TTTTGCATCATGATTTAGCTAGTA-TTAC
Mpch	AAA--GCA-G-AG-ACTAATCCTC-GTACC-TTTTGCATCATGATTTAGCTAGAA-AATT
Char	AAA--GCA-G-AG-ATTAACCCTC-GTACC-TTTTGCATCATGATTTAGCCAGTA--AGC
Pser	AAA--GCA-G-AG-ATTACCTCTT-GTACC-TTTTGCATCATGATTTAGCCAG-A-AACC
Prol	AAA--GCA-G-AG-ATTAGAACCTC-GTACC-TTTTGCATCATGATTTAGCTAGCA-CT-T
Plbi	GAA--GCA-G-AG-CTTAAAGCTC-GTACC-TTTTGCATCATGATTTAGCTAGC--ACTT
Calu	ACA--GCA-G-AG-CTTACCCCTC-GTACC-TTTTGCATCATGATTTAGCTAGTA--TAC
Papa	AAA--GCA-G-AG-ACTAACCCTC-GTACC-TTTTGCATCATGATTTAGCAAGTA-TA-A
Sufr	AAA--GCA-G-AG-ATCTACCCTC-GTACC-TTTTGCATCATGATTTAGCCAGTA--CCC
Stci	TAA--GCA-G-AG-ATTACACCTC-GTACC-TTTTGCATCATGATTTAGCTAGCA-CCTC
Taru	AAA--GCA-G-AG-ATTACACCTC-GTACC-TTTTGCATCATGATTTAGCTAGTA--TAA
Rala	AAA--GCA-G-AG-ATGAAACCTC-GTACC-TTTTGCATCATGATTTAGCTAGTA--TTC

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Plal TCAGGC AAAGAGAAC - TTTA GTTTG AGCC CC CGAAA CTGC - AC --- GAG CTACTC CGAGA - C
 Sami CCAGGC AAAGAGAGC - TTTA GTCTG GGCC CC CGAAA CTGC - AC --- GAG CTACTC CGAGA - C
 Rere TCAAGC GAAGAGCAC - TTTA GTTTG AGCC CC CGAAA CTGC - AC --- GAG CTACTC CGAGA - C
 Gama TCAGGC GAAGTGAAC - TTTA GTCTT AGCC CC CGAAA CTGC - AC --- GAG CTACTC CGAGG - C
 Onmy CTGAGC AAAGAGAAC - TTTA GTTTA GGCC CC CGAAA CTAG - AC --- GAG CTACTC CGGA - C
 Sasa CCGAGC AAAGAGAAC - TTTA GTTCA GGCC CC CGAAA CTAG - AC --- GAG CTACTC CGGA - C
 Cola CCGAGC AAAGAGAAC - TTTA GTTCA GGCC CC CGAAA CTAG - AC --- GAG CTACTC CGGA - C
 Dita CCAGGC AAGAGAAC - TTTA GTCCG GACC CC CGAAA CTAG - GT --- GAG CTACTC CGAGG - C
 Gogr TCAAGC AAAAGAAC - TTTA GTTTG AACC CC CGAAA CTAG - AC --- GAG CTACTC CGAAA - C
 Chsl TTAAGC AAAGAGAGC - TTTA GTTTA AGCC CC CGAAA CTAG - AC --- GAG CTACTC CGAGA - C
 Atja TTAGGC AAAGAGAAC - TTTA GTCTA AGCC CC CGAAA CTAG - AC --- GAG CTACTC CAAGA - C
 lido TTAGGC AAAGAGAAC - TTTA GTCTA AGCC CC CGAAA CTAG - AC --- GAG CTACTC CAGGA - C
 Auja TAAAGC AAAGAGGCC - TTTA GTTTT ATTT CC CGAAA CTAA - AC --- GAG CTACTC CGAGA - C
 Chag TAAAGC GAAGCGCC - TTTA GTTTT ATAC CC CGAAA CTAG - AC --- GAG CTACTC CGAGA - C
 Hami TAAAGC AAAGCGCC - TTTA GTTTT ACTT CC CGAAA CCAG - AC --- GAG CTACTC CGAGA - C
 Saun TAAAGC AAAGCGCC - TTTA GTTTT ACCC CC CGAAA CCAG - AC --- GAG CTACTC CGAGAA - C
 Nema CTGAGC AAAGAGACC - TTTA GTACA GACC CC CGAAA CTAG - AC --- GAG CTACTT CAAGA - C
 Disp CTGAGC AAAGTGAAC - TTTA GTTCA GTCC CC CGAAA CTAG - AC --- GAG CTACTT CAAGA - C
 Myaf CTGAGC AAAGTGAAC - TTTA GTTCA GCCC CC CGAAA CTAG - AC --- GAG CTACTT CAAGG - C
 Lagu TCAGGC AAAGTGACC - TTTA GTCTG ATTT CC CGAAA CTAG - AC --- GAG CTACTT CAAGA - C
 Trtr GCAGGC AAAGAGTGC - TTTA GTCTG ACCC CC CGAAC CCAG - GT --- GAG CTACTT CGAGG - C
 Zucr CCAGGC ACAGAGCAC - TGTA GTCTG ACA - CC CGAAA CCAA - GT --- GAG CTACTC CGAGG - C
 Pxja TCAAGC ACAGTGCC - TTTA GTTTG ATAC CC CGAAA CTGA - GC --- GAG CTACTT CAAGA - C
 Pxlo TCAAGC ACAGTGCC - TTTA GTTTG ATAC CC CGAAA CTGA - GC --- GAG CTACTT CAAGA - C
 Pctr TCAGGC AAAGTGCC - TGTA GTCTG GACC CC CGAAA CTGA - GC --- GAG CTACTC CAAGA - T
 Apsa TCAAGC AAAGCGACC - TAAA GTTTG AGAC CC CGAAA CTGA - GC --- GAG CTACTC CAAGA - C
 Cabe TTAGGC AGAGAGCTC - TGCA GTCTA AGAC CC CGAAA CCGG - GT --- GAG CTACTC CGGA - C
 Bzze TCAAGC AAAGAGAAC - TATA GTTTG ACAC CC CGAAA CTAG - GT --- GAG CTACTC CAAGG - C
 Siim CCAAGC AGAAAGAA - TATA GTTTG GTTC CC CGAAA CTAA - GT --- GAG CTACTC CGAGG - C
 Ctru ACAAAC AAAGAGGCC - TTTA GTTTG GTCC CC CGAAA CTAG - AT --- GAG CTACTC CAAGA - C
 Dpbr ATAAAC AAAGAGGCC - TTTA GTTTA ATGC CC CGAAA CTAG - AT --- GAG CTACTC CGAGA - C
 Caki CCAAGC AAAGAGGCC - TTTA GTTTG TTAC CC CGAAA CTGT - GC --- GAG CTACTT CAAGA - C
 Phja ACAAGC AAAGAGGCC - TTTA GTTTG TGAC CC CGAAA CTGA - GC --- GAG CTACTT CAAGA - C
 Brsp CCAAGC AAAGTGACC - TTTA GTTTG CTAC CC CGAAA CTGC - GC --- GAG CTACTC CGAGA - C
 Gamo ACAAGC AAAGAGGCC - TTTA GTTTG TAAC CC CGAAA CTGA - GC --- GAG CTACTC CAAGA - C
 Lolo ACAAGC AAAGAGGCC - TTTA GTTTG TAAC CC CGAAA CTGA - GC --- GAG CTACTC CAAGA - C
 Batr ATAAGC AAAAAAAAAAC - TTTA GTTTA TATC CC CGAAA CTAG - TT --- GAG CTACTT GTCC - C
 Prmy AAGAGC ACAGCCTC - TTTA GTTCT ATCC CC CGAAA CTGT - AC --- GAG CTACTT CAGCC - C
 Loli CCAAGC AAAGTGCC - TTTA GTTTG GGCC CC CGAAA CTAA - GC --- GAG CTACTC CAAGA - C
 Loam CCAAGC AAAGAGGCC - TTTA GTTTG GACC CC CGAAA CTAA - GC --- GAG CTACTC CAAGA - C
 Chab CCAAGC GAAGAGGCC - TACA GTTTG AACC CC CGAAA CTAA - GC --- GAG CTACTC CAAGA - C
 Chto CCAAGC GAAGAGGCC - TACA GTTTG AACC CC CGAAA CTAA - GC --- GAG CTACTC CAAGA - C
 Majo TCAAGC AAAAGGAAT - TTTA GTTTG AGAC CC CGAAA CCAA - GT --- GAG CTACTC CAAGA - C
 Hlst ACAGGC AAAGAGGCC - TTTA GTCTG GAAC CC CGAAA CTAA - GA --- GAG CTACTC CAAGA - C
 Clpe CCAAGC AAAGAGGCC - TTTA GTTTG ACCC CC CGAAA CTAG - AC --- GAG CTACTC CAAGA - C
 Mlmr CCAAGC AAAGAGGCC - TTCA GTTTG AGCC CC CGAAA CTAA - GC --- GAG CTACTC CAAGA - C
 Cr cr TCAAGC AAAAGCAT - TTTA GTTTG ACCC CC CGAAA CCAA - GT --- GAG CTACTC CAAGA - C
 Muce TCAAGC AAAAGCAT - TTTA GTTTG ACCC CC CGAAA CCAA - GT --- GAG CTACTC CAAGA - C
 Bege TCAAGC AAAAGCAT - TTTA GTTTG ACTA CC CGAAA CCAG - AC --- GAG CTACTT CAAGA - T
 Mela TCAAGC AAAAGCAT - TGTA GTTTG ACAA CC CGAAA CTAA - GC --- GAG CTACTC CAGC - C
 Hats TCAAGC AAAAGCAT - TTTA GTTTG AATA CC CGAAA CTAG - GC --- GAG CTACTC CAAGA - C
 Or la TCAAGC AAAAGAAC - TGTA GTTTG AAAC CC CGAAA CTTA - GT --- GAG CTACTT CAAGA - C

Cosa TTAAGCAAATGAAT-TTTAGTTTAAACC^{CC}CGAAA^{CTAA}-GT---GAG^{CTACTC}CAAGA-C
 Exsp TTAAGCAAATGAAT-TTTAGTTTAACTT^{CC}CGAAA^{CTAG}-GT---GAG^{CTACTC}CAAGG-C
 Depa CTAAGCAAAGATT-TTTAGTTTAGTAC^{CC}CGAAA^{CTAA}-GT---GAG^{CTACTT}CAAGA-C
 Rima TTAAGCAAAGTTI-T-TAGTTTAAACC^{CC}CGAAA^{CTGG}-GT---GAG^{CTACTC}CAAGA-C
 Fuol TCAAGCAAAGCAT-TTTAGTTTATAT^{CC}CGAAA^{CTAG}-AC---GAG^{CTACTC}CAAGG-C
 Gmaf TTAAGCAAAGATT-TTTAGTTTACAT^{CC}CGAAA^{CTAG}-AC---GAG^{CTACTC}CAAGG-C
 Xeei CCAAGCAAAGCCT-TTTAGTTTACTT^{CC}CGAAA^{CTAG}-AC---GAG^{CTACTC}CAAGA-C
 Pros TCGAGCACAGCGTC-TTTAGTTTACAC^{CC}CGAAA^{CTAG}-AC---GAG^{CTACTC}CAAGG-C
 Scmi TCGAGCACAGCGTTC-TTTAGTTTACAC^{CC}CGAAA^{CTAG}-AC---GAG^{CTACTC}CAAGA-C
 Rolo CCGAGCAAAGAGCCC-TTTAGTTTGCAC^{CC}CGAAA^{CTGG}-AC---GAG^{CTACTC}CAAGA-C
 Cere CCAAGCAAAGAGCCC-TTTAGTTTGTAT^{CC}CGAAA^{CTGG}AGC---GAG^{CTACTT}CAAGA-C
 Daga CCAAGCAAAGAGCCC-TTTAGTTTACAC^{CC}CGAAA^{CTGA}GGC---GAG^{CTACTT}CAAGA-C
 Anco TTAAGCAAAGAGCCC-TTTAGTTTACAC^{CC}CGAAA^{CTGA}-GC---GAG^{CTACTC}CAAGA-C
 Dmve CTAAGCAAAGAGCCC-TTTAGTTTAGCAC^{CC}CGAAA^{CTGA}-CA---GAG^{CTACTC}CAAGC-C
 Dmar CTAAGCAAAGAGCCC-TTTAGTTTAGCCC^{CC}CGAAA^{CTGA}-GC---GAG^{CTACTC}CAAGA-C
 Anka TTAAGCAAAGAGCCC-TTTAGTTTACAC^{CC}CGAAA^{CCGG}-GC---GAG^{CTACTC}CAAGA-C
 Moja TTAAGCAAAGAGCCC-TTTAGTTTATAC^{CC}CGAAA^{CTGA}-GC---GAG^{CTACTC}CAAGA-C
 Hoja TTAAGCAAAGAGCCC-TTTAGTTTATAC^{CC}CGAAA^{CTGA}-GC---GAG^{CTACTC}CAAGA-C
 Bede TCGAGCACAGGTTT-TTTAGTTTACAC^{CC}CGAAA^{CTAG}-AC---GAG^{CTACTC}CAAGA-C
 Bosp TCGAGCATAGAGTTC-TTTAGTTTACAC^{CC}CGAAA^{CTAG}-AC---GAG^{CTACTC}CAAGG-C
 Mysp TCAAGCAAAGAGCCC-TTTAGTTTAAAC^{CC}CGAAA^{CTGG}-AC---GAG^{CTACTC}CAAGG-C
 Osja CCAAGCAAAGAGCCC-TTTAGTTTACAC^{CC}CGAAA^{CTGG}-AC---GAG^{CTACTC}CAAGA-C
 Sgro TCAAGCAAAGAGCCC-TTTAGTTTATAC^{CC}CGAAA^{CTGG}-AC---GAG^{CTACTC}CAAGA-C
 Pzpa CCAAGCAAAGAGACC-TATAGTTTAGAC^{CC}CGAAA^{CTAA}-GC---GAG^{CTACTC}CAAGA-C
 Zeja CCAAGCAAAGAGCCC-TATAGTTTAGAC^{CC}CGAAA^{CTTA}AGC---GAG^{CTACTC}CAAGA-C
 Znne TCAAGCAAAGAGACC-TGTAGTTTAGAC^{CC}CGAAA^{CTAA}-GC---GAG^{CTACTC}CAAGA-C
 Zefa CCAAGCAAAGCGACC-TGTAGTTTAGAC^{CC}CGAAA^{CTAA}-GC---GAG^{CTACTC}CAAGA-C
 Acni CCAAGCAAAGAGACC-TATAGTTTGAAC^{CC}CGAAA^{CTAA}-GC---GAG^{CTACTC}CAAGA-C
 Ncrh CCAAGCAAAGAGACC-TATAGTTTGAAC^{CC}CGAAA^{CTAA}-GC---GAG^{CTACTC}CAAGA-C
 Agca TCAAGCAAAGAGCAC-TTTAGTTTACAC^{CC}CGAAA^{CTAA}-GT---GAG^{CTACTC}CAAGA-C
 Hydy TTAAGCAAAGAGAAC-TTTAGTTTACAT^{CC}CGAAA^{CTAC}-GT---GAG^{CTACTC}CAAGA-C
 Gsac TTAAGCAAAGAGACC-TATAGTTTATGC^{CC}CGAAA^{CTAC}-GT---GAG^{CTACTC}CAAGA-C
 Pevo CCTAGCAAAGAGCCC-TTTAGTTTAAAC^{CC}CGAAA^{CCGA}-GT---GAG^{CTACTC}CAAGA-C
 Hiku TCAAGCAAAGAGATC-TTTAGTTTCTAC^{CC}CGAAA^{CTAA}-GC---GAG^{CTACTC}CGAGA-C
 Inpa CTAAGCAAAGAGCCC-TCTAGTTTAAAC^{CC}CGAAA^{CCAA}-GT---GAG^{CTACTC}CAAGA-C
 Auch TTAGCAAAGCGCAC-TTTAGTCTAAGCC^{CC}CGAAA^{CCAG}-GT---GAG^{CTACTT}CAAGA-C
 Fico TCAAGCAAAGAGAAT-TGTAGTTTATAC^{CC}CGAAA^{CTAC}-GT---GAG^{CTACTT}CAAGG-C
 Macs CTAAGCAAAGAGCAC-TTTAGTTTAGGAC^{CC}CGAAA^{CCAG}-GC---GAG^{CTACTC}CAAGA-C
 Moal CCAAGCAAAGAGACC-TATAGTTTGTTC^{CC}CGAAA^{CTAA}-GT---GAG^{CTACTC}CGAGA-C
 Syma TCAAGCAAACGTCCTTTAAGTTTACAC^{CC}CGAAA^{CTAC}-GT---GAG^{CTACTC}CAAGA-C
 Maf r CTAAGCAAAGAGAAC-TTTAGTTTAAAC^{CC}CGAAA^{CCAA}-GT---GAG^{CTACTC}CAAGA-C
 Dcpe TCTAGCAAAGAGAAC-TTTAGTTTAGGCC^{CC}CGAAA^{CCAA}-GT---GAG^{CTACTC}CAAGG-C
 Dct i TCTAGCGTAGAGAAC-TTTAGTTTAGAAC^{CC}CGAAA^{CCAA}-GT---GAG^{CTACTC}CAAGG-C
 Hehi CCAAGCAAAGAGTGC-TTTAGTTTACAC^{CC}CGAAA^{CTAG}-GC---GAG^{CTACTC}CAAGA-C
 Stam CCAAGCAAATGAAT-TTTAGTTTACAG^{CC}CGAAA^{CTAA}-GT---GAG^{CTACTC}CAAGA-C
 Hogi TCAGCAAAGAGCAC-TTTAGTCTGTTTA^{CC}CGAAA^{CTAT}-AT---GAG^{CTACTC}CAAGA-C
 Erzo CCAAGCAAAGAGTGC-TTTAGTTTACGC^{CC}CGAAA^{CTAA}-GT---GAG^{CTACTC}CAAGA-C
 Hxot CCAAGCAAAGCGTAC-TTTAGTTTACGT^{CC}CGAAA^{CTAG}-GT---GAG^{CTACTC}CAAGA-C
 Core TCAAGCAAAGCGAAC-TTTAGTTTACGT^{CC}CGAAA^{CTAC}-GT---GAG^{CTACTC}TAAGA-C
 Apve CCAAGCAAAGAGCAC-TTTAGTTTACGT^{CC}CGAAA^{CTAC}-GT---GAG^{CTACTC}CAAGA-C
 Lat j CCAAGCAAAGAGTACCTTTAGTTTATAC^{CC}CGAAA^{CTAA}CGT---GAG^{CTACTC}CAAGA-C
 Laja TCAAGCAAAGCGTAC-TTTAGTTTACCC^{CC}CGAAA^{CCAG}TGT---GAG^{CTACTC}CAAGA-C

Syja C AAGCA AAGT AATGC - TTTA GTTTG ATTC CC CGAAA CTAG - GT --- GAG CTACTC CAAGT - C
 Epme C CAAGC AAAG AGCAC - TTTA GTTTG ACAA CC CGAAA CTTT - GT --- GAG CTACTC CAAA - C
 Grse T CAAGC AAAA TGCAT - TTTA GTTTG ACAA CC CGAAA CTAT - GT --- GAG CTACTC CGAG - C
 Clja T CAAGC AAAG TGATC - TTTA GTTTG ACAT CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Ogcy C CAAGC GAAG AGAAC - TATA GTTTG GCCC CC CGAAA CTGA - GT --- GAG CTACTC CAAG - C
 Plna T CAAGC AAAA AGCAT - TTTA GTTTG ATTC CC CGAAA CTAC - GT --- GAG CTACTT CAAG - C
 Lema T CAGGC AAAG AGAAC - TTTA GTCTG ACAC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Etzo C CAAGC AAAG TGTC - TTTA GTTTG ATAA CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Apse T CAAGC GAAG AGCAC - TTTA GTTTG ACAC CC CGAAA CCAA - GT --- GAG CTACTC CAAG - C
 Epde T CAAGC AAAG AGCAC - TTTA GTTTG ATTC CC CGAAA CTAG - GT --- GAG CTACTC CAAG - C
 Slja T TAAGC AAAG AGAAC - TTTA GTTTA AGAC CC CGAAA CTAT GTI --- GAG CTACTC CGAG - C
 Bsja C CAAGC AAAG AGCAC - TTTA GTTTG ACAC CC CGAAA CTAC - GT --- GAG CTACTC CAAG - C
 Ecna C TAAGC AAAG AGCCC - TTTA GTTTA GTAC CC CGAAA CTAG - GT --- GAG CTACTC CAAG - C
 Cohi T TAAGC GAAG AGCAC - TTTA GTTTA ATAC CC CGAAA CTAG GTI --- GAG CTACTC CAAG - C
 Caar T CAAGC AAAG AGAGC - TTTA GTTTG AAAC CC CGAAA CTGC - GT --- GAG CTACTC CAAG - C
 Came T CAAGC AAAG AGAAC - TTTA GTTTG AAAT CC CGAAA CTGT - GT --- GAG CTACTC CAAG - C
 Mema T CAAGC AAAG AGCAC - TTTA GTTTG ACCA CC CGAAA TTAG - GT --- GAG CTACTC CAAG - C
 Lenu T TGAGC GAAA AGAAT - TTTA GTTCA AGCC CC CGAAA CCAG - AC --- GAG CTACTC CAGG - C
 Brja T CAAGC GAAG AGCAT - TTTA GTTTG ATCC CC CGAAA CTAC - GT --- GAG CTACTC CAAG - C
 Plma C CAAGC AAAG AGAAC - TTTA GTTTA GGAC CC CGAAA CTAC - GT --- GAG CTACTC CAAG - C
 Emst C CAAGC AAAG AGCAC - TTTA GTTTG GCTC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Ptti C CAAGC AAAG AGCAC - TTTA GTTTA AAGC CC CGAAA CCGA - GC --- GAG CTACTC CAAG - C
 Losu C CAAGC AAAG AGAAT - TTTA GTTTG ACCC CC CGAAA CTAG - AT --- GAG CTACTC CAAG - C
 Geoy T CAAGC AAAG TGCA - TTTA GTTTG ATTT CC CGAAC CTAC - GC --- GAG CTACTC CAAG - C
 Dipi C CAAGC AAAG AGAAC - TTTA GTTTG ACAC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Pama C CAAGC AAAG AGGAC - TTTA GTTTG GCCC CC CGAAA CTAA - GT --- GAG CTACTC CAGG - C
 Leob C CAAGC AAAG AGCAC - TTTA GTTTG CTAC CC CGAAA CTAG - AC --- GAG CTACTC CAAG - C
 Neba C CAAGC AAAG CGCCC - TTTA GTTTG GTTT CC CGAAA CTAA - GT --- GAG CTACTC CGAG - C
 Pdpi T TAAGC AAAG AGAAC - TTTA GTTTA AAGC CC CGAAA CCGG - GT --- GAG CTACTC CAAG - C
 Nimi T CAAGC AAAG AGCAC - TTTA GTTTG ATTC CC CGAAA CTAC - GT --- GAG CTACTT CAAG - C
 Uptr T CAAGC AAAG AGAAC - TTTA GTTTG AAAC CC CGAAA CTAG - CT --- GAG CTACTC CAAG - C
 Pesc T CAAGC AAAG GGCAC - TTTA GTTTG AAAC CC CGAAA CTAG - AT --- GAG CTACTT CAAG - C
 Baar C CAAGC AAAG AGTAC - TTTA GTTTG AATC CC CGAAA CTAG TGTI --- GAG CTACTC CAAG - C
 Moar T CAAGC AAAG AGCAC - TTTA GTTTG ACTC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Toja C CAAGC AAAG AGCAC - TTTA GTTTG ATGC CC CGAAA CTAG TGTI --- GAG CTACTT CAAG - C
 Chau C CGAGC AAAG AGCAC - TTTA GTTCG GCTC CC CGAAA CTAA - GT --- GAG CTACTC CAAA - C
 Chse C CAAGC AAAG CGTAC - TTTA GTTTG CTTT CC CGAAA CTAA - GT --- GAG CTACTC CAAG - T
 Enar T CAAGC AAAG AGATC - TTTA GTTTG ATTC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Hpty C CAAGC AAAA AGTAT - TTTA GTTTG GTTC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Nana T CAAGC AAAG AGCAC - TTTA GTTTG ACAC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Mcst C CAAGC AAAG AGCCC - TTTA GTTTG ACTT CC CGAAA CTGG - GT --- GAG CTACTC CAAG - C
 Rhox C CGAGC AAAG AGACC - TTTA GTTCG GCCC CC CGAAA CTAA - GC --- GAG CTACTC CAAG - C
 Opfa T CAAGC AAAG AGTTC - TTTA GTTTG ACCC CC CGAAA CTAG - GT --- GAG CTACTC CAAG - C
 Paar C CAAGC GAAG AGAAC - TTTA GTTTG ATAC CC CGAAA CTGG GTI --- GAG CTACTC CAAG - C
 Gozo C CAAGC AAAG CGCG - TTTA GTTTG GTAC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Ackr C CAAGC AAAG AGCCC - TTTA GTTTG TCCC CC CGAAA CTAA - GT --- GAG CTACTT CAAG - C
 Elev T CAGGC AAAG AGAAC - TTTA GTCTG AACC CC CGAAA CTAA - GT --- GAG CTACTC CAAG - C
 Trdu T CAAGC AAAA AGCAT - TATA GTTTG ATAC CC CGAAA CTAA - GC --- GAG CTACTC CAAG - C
 Amoc T CAAGC AAAA AGAAT - TTTA GTTTG ACAC CC CGAAA CTAG - GT --- GAG CTACTC CAAG - C
 Hame T TAAGC AAAG AGCCC - TTTA GTTAA GTAC CC CAAGG GAAG - GC TGAAAA CCGAAA TGAAG - T
 Chso C CAGGC GAAA AGATI - TTTA GTCTG ATGT CC CGAAA CCAA - GT --- GAG CTACTC CAAG - C
 Lyto C CAAGC AAAG CGTGC - TTTA GTTTG ATAC CC CGAAA CTGG - GT --- GAG CTACTC CAAG - C

Encr	C	CAAGC	GAAG	CGTGC	-	T	TTA	GTTTG	GTAT	CC	CGAAA	CTGC	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Bvar	T	CAAGC	AAAG	CGTTC	-	T	TTA	GTTTG	AAAA	CC	CGAAG	CTAA	-	GC	-	-	-	GAG	CTACTC	CAAG	A	-	C
Noco	T	CAAGC	AAAA	AGATT	-	T	TTA	GTTTG	TTAA	CC	CGAAA	CTAA	-	GC	-	-	-	GAG	CTACTC	CAAG	A	-	C
Chsp	C	CTGGC	AAAA	TGAGT	-	T	TTA	GTCAG	GCCC	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	T
Arja	C	CAAGC	AAAG	AGTAC	-	T	TTA	GTTTG	ACGT	CC	CGAAA	CTAC	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Pase	T	TAAGC	AAAG	AGCCC	-	T	TTA	GTTTA	ATAC	CC	CGAAA	CTAG	C	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Trel	C	TAAGC	ACAG	AGTAC	-	T	TCA	GTTTT	AGAC	CC	CGAAA	CTAG	-	GT	-	-	-	GAG	CTACTC	CGAG	A	-	C
Lifa	C	GAAGC	AAAG	TGAAC	-	T	TTA	GTTTC	CTAC	CC	CGAAA	CTAG	-	GT	-	-	-	GAG	CTACCC	CAGG	A	-	C
Acur	T	CAAGC	AAAG	AGTAC	-	T	TTA	GTTTG	ACTT	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Ampe	C	CGAGC	GAAG	AGAAC	-	T	TTA	GTTTG	CTTT	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAGG	A	-	C
Urja	C	CAAGC	ATAA	AGAAC	-	T	TTA	GTTTG	ACAC	CC	CGAAA	CTAG	-	GT	-	-	-	GAG	CTACTT	CGACT	-	-	C
Enet	T	CAAGC	AAAG	GGATC	-	T	TTA	GTTTG	AGAC	CC	CGAAA	CCTC	-	GC	-	-	-	GAG	CTACCT	CAGAG	-	-	C
Ptbr	T	TAAGC	AAAA	AGAAT	-	T	TTA	GTTTA	ATAC	CC	CGAAA	CCAG	-	GC	-	-	-	GAG	CTACCC	CAAG	A	-	C
Safa	T	CAAGC	AAAA	AGCCC	-	T	GTA	GTTTG	AAAA	CC	CGAAA	CCAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Icae	C	CAAGC	GAAG	AGCAC	-	T	TTA	GTTTG	GAAC	CC	CGAAA	CTAT	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Asmi	T	AAAGC	GAAAT	TGTTT	-	T	TTA	GCTTA	CAGC	CC	CGAAA	CCAG	-	GC	-	-	-	GAG	CTACTC	CAAG	A	-	C
Foal	T	TAAGC	AAAG	CGAGC	-	T	GTA	GTTTA	ATTA	CC	CGAAA	CCAA	-	GC	-	-	-	GAG	CTACTC	CGAG	A	-	C
Drze	T	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	AAAT	CC	CGAAA	CCTA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Rhas	A	CAAGC	AAAG	AGCGC	-	T	TTA	GTTTG	GGAC	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Elac	C	TGAGC	AAAA	CGAAT	-	T	TTA	GTTTA	GACC	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Kugu	C	CAAGC	AAAA	AGTAT	-	T	TTA	GTTTG	ACAC	CC	CGAAA	CCAG	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Plor	T	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	ATTC	CC	CGAAA	CTAG	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Sgun	C	CAAGC	AAAG	AGCCC	-	T	TTA	GTTTG	ACTT	CC	CGAAA	CTTA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Zaco	T	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	ACTC	CC	CGAAA	CTGT	-	GC	-	-	-	GAG	CTACTC	CAAG	A	-	C
Zbfl	C	CAAGC	AAAG	AGAAC	-	T	TTA	GTTTG	ACTC	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Spba	C	CAAGC	AAAA	AGTTT	-	T	TTA	GTTTG	ATAC	CC	CGAAA	CTAA	-	GC	-	-	-	GAG	CTACTC	CAAG	A	-	C
Game	C	CAAGC	AAAG	AGCCC	-	T	TTA	GTTTG	GACC	CC	CGAAA	CTAC	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Thth	C	CAAGC	AAAG	AGAAC	-	T	TTA	GTTTG	GACC	CC	CGAAA	CTAG	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Xigl	T	CAAGC	GAAG	AGCAC	-	T	TTA	GTTTG	ATAC	CC	CGAAA	CTAG	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Hyja	C	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	GACC	CC	CGAAA	CTAC	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Psan	C	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	GACC	CC	CGAAA	CTAC	-	GC	-	-	-	AAG	CTACTC	CAAG	A	-	C
Cupa	C	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	GGCC	CC	CGAAA	CTAC	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Mpch	T	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	CCTT	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Char	C	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	ACCC	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Pser	C	CAAGC	AAAG	AGCAC	-	T	TTA	GTTTG	ACTC	CC	CGAAA	CTAG	C	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Prol	T	CAAGC	AAAG	AGAAC	T	T	AAA	GTTTG	TAAC	CC	CGAAA	CTGA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Plbi	T	CAAGC	AAAG	AGAAC	C	T	AAA	GTTTG	TAAC	CC	CGAAA	CTGA	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Calu	C	CAAGC	AAGG	AGCAC	-	C	ATA	GCTTG	ATAC	CC	CGAAA	CTGG	-	GT	-	-	-	GAG	CTACTC	CAGG	A	-	C
Papa	C	CAAGC	GAAG	AGCCC	-	T	TTA	GTTTA	CTAC	CC	CGAAA	CTAG	-	GT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Sufr	C	TAAGC	AAAA	AGAAT	-	T	TTA	GTTTA	AACC	CC	CGAAA	CTTA	-	TT	-	-	-	GAG	CTACTC	CAGG	A	-	C
Stci	T	TGGGC	AAAA	CGATT	-	T	TTA	GTCCA	ATCC	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CGAG	A	-	C
Taru	T	TAGGC	AAAG	AGCAC	-	T	TTA	GTCTA	ACAC	CC	CGAAA	CTGA	-	AT	-	-	-	GAG	CTACTC	CAAG	A	-	C
Rala	C	TAGGC	AAAA	AGAAT	-	T	TTA	GTCTA	GTCC	CC	CGAAA	CTAA	-	GT	-	-	-	GAG	CTACTC	CGAG	A	-	C

* * * * *

	12	HVR	12'	13	13'
Scca	AGCA	-----TT-AT-----	AGAGC	-TAA	CCC--GTCTCTGTGGCAAAAGA-G
Muma	AGCA	TT---A-----	TTAGAGC	-TAA	CCC--GTCTCTGTGGCAAAAGA-G
Erca	AGTT	G---TAA-----	GAGC	-TAA	CCC--GTCTCTGTGGCAAAAGG-G
Pose	AGTT	AA-----	AAGAGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Actr	AGCC	T-----AA-----	TAGGGC	-AAA	CCC--GTCTCTGTGGCAAAAGA-G
Scal	AGCC	T---A---AC-----	AGGGC	-AAA	CCC--GTCTCTGTGGCAAAAGA-G
Posp	AGCC	-----TA-----	ACAGGGC	-AAA	CCC--GTCTCTGTGGCAAAAGA-G
Atsp	AGTC	TACCA-----	AGGAC	-CAA	TCC--GTCTCTGTGGCAAAAGA-G
Leoc	AGTC	TA---CCA-----	GGGC	-TAA	TCC--GTCTCTGTGGCAAAAGA-G
Amca	AGCC	TC---CTA-----	GGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Osbi	AGCC	TAC---A-----	CAGGGC	-AAA	CCC--GTCTCTGTGGCAAAAGA-G
Pabu	AGCT	TT---AATG-----	A--GAGC	-CAA	CCC--GTCTCTGTAGCAAAAGA-G
Hial	AGCC	TA---TC-----	CAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Elha	AGCC	-----CATAT-----	G--GGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Mlcy	AGCC	CC---TTAA-----	GGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Algl	AGCC	-----GTT-----	TAGGGC	-CAA	CCC--GTCTCTGTGGCAATAGA-G
Ptgi	AGCC	TA---TAA-----	TAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Alaf	AGCC	T-----AC-A-----	CCAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Nock	AGCC	TA---AAC--A-----	GGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Anja	AGCC	TA---ATTA-----	GGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Gyki	AGCC	-----CAA-----	TGGGGC	-AAA	CCC--GTCTCTGTGGCAAAAGA-G
Syka	AGTC	T-----T-----	AAAGGAC	-TAA	CCC--GTCTCTGTGGCAAAAGA-G
Opma	AGTT	-----TT-GA-----	AGAAC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Comy	AGTC	TA---AA-----	AGGAC	-TAA	CCC--GTCTCTGTGGCAAAAGA-G
Sasp	AGCC	CA---AAT-----	GAGC	-GAA	CCC--ATCTCTGTAGCAAAAGA-G
Eupe	AGCC	-----AATAATT-----	G--GGC	-GAA	CCC--GTCTCTGTTGCAAAAGA-G
Enja	AGCC	AA---CTAT-----	GGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Same	AGCC	TA---TTGT-----	AGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Chch	AGCC	TA---A-----GA-----	ACTGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Grgr	AGCC	TG---CAGA-----	AGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Caau	AGCC	TA---TTG-----	AGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Cyca	AGCC	TA---TT-----	A-AGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Dare	AGCC	TA---TTTAACT-----	TAGGGC	-CAA	CCC--GTCTCTGTGGCAATAGA-G
Cost	AGCC	TA-----T-----	A-AGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Leec	AGCC	TA---TC-----	GGGC	-CAA	CCC--TTCTCTGTGGCAAAAGA-G
CrIa	CGCC	AA---CAT-----	GGGC	-CAA	CCC--ATCTCTGTGGCAAAAGA-G
Clmc	AGCC	TA---TTA-----	CAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Phin	AGCC	AA---ATC-----	TAGGGC	-AAA	CCC--GTCTCTGTGGCAAAAGA-G
Icpu	AGCC	TA---TTAATT-----	AGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Psto	AGCC	TA---TCAATT-----	AGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Cora	AGTC	T---ATTATAT-----	A--GAGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Eisp	AGCC	TA---C-----	ATAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Apal	AGCC	TA---TCT-----	CAGGGC	-CAA	CCC--GTCTCTGTAGCAAAAGA-G
EsLu	AGCC	TA---ACAT-----	AGGGC	-CAA	CCC--ATCTCTGTGGCAAAAGA-G
Dape	AGCC	CA---A-AA-----	GGGGC	-AAA	CCC--GTCTCTGTGGCAAAAGA-G
Glse	AGCC	TATCTA-----	GGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Naar	AGCC	TA---TC-----	CAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Baoc	AGCC	-----TATCT-----	A--GGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Opso	AGCC	TG---TCCA-----	GGGC	-CAA	CCC--GTCTCTGTAGCAAAAGA-G
Alte	AGCC	T-----AT-C-----	ATAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G
Plap	AGCC	TA---TC-----	ATAGGGC	-CAA	CCC--GTCTCTGTGGCAAAAGA-G

Plal AGCCTA---T-TA-----TAGGGC-ACA CCC--GTCTCT GTTGCAAAAGA-G
 Sami AGCCTA---TC-----GCAGGGC-CTA TCC--GTCTCT GTTGCAAAAGA-G
 Rere AGCCTA---TTAT-----AGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Gama AGCCTA---TG-G-----CAGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Onmy AGCCTA---TTG-----TAGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Sasa AGCCAT--TA-----TAGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Cola AGCCT----ATTA--T-----A--GGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Dita AGCCTA---T-A-----GCAGGGC-CAA CCC--ATCTCT GTTGCAAAAGA-G
 Gogr AGCCTA---TCAT-----GGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Chsl AGCCTT---TTA-----GGGC-CAA CCC--CCCTCT GTTGCAAAAGA-G
 Atja AGCCTA---TAAC-----AGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Iido AGCCTA---TTA-----TAGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Auja AGCCT-----ATTA-----TAGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Chag AGCCTA---TTGA-----AGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Hami AGCCTA---TT-----AGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Saun AGCCTT---TT-----TAGGGC-TAA CCC--GTCTCT GTTGCAAAAGA-G
 Nema AGCCTA---TGT-----T-GGGC-GAA CCC--GTCTCT GTTGCAAAAGA-G
 Disp AGCCTA---C---GT-----TGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Myaf AGCCTAAGGCAATATCC-----GAAGGGC-ACA CCC--GTCTCT GTAGCAATAGA-G
 Lagu AGCCTA---ATA-A-----GGGC-TAA CCC--GTCCCT GTTGCAAAAGG-G
 Trtr TGCCTA---ACATT-----AAAGGGC-TAA CCC--GTCTCT GTTGCAAAAGA-G
 Zucr AGCCT----AGA-----TAGGGC-TAA CCC--GTCTCT GTTGCAAAAGA-G
 Pxja AGCCTA---TTTA-----ATAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Pxlo AGCCTA---TTTAA-----TAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Pctr AGCCTG---TAAT-----TTAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Apsa AGCCT---TAT-----ATAGGGC-ACA CCC--GTCTCT GTTGCAAAAGA-G
 Cabe AGCCTA---TAAA-----GAAGGGC-ACA CCC--GTCTCT GTCGCAAAAGA-G
 Bzze AGCCCG---TAAA-----AGGGC-ACA CCC--GTCTCT GTTGCAAAAGA-G
 Siim AGCTTG---TATA-----AAAGAGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Ctru AGCC------GACA-----AAGGGC-AAA CCC--GTCTCT GTAGCAAAAGA-A
 Dpbr AGCCCG---TTA-----AAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-A
 Caki AATCTA---TC--A-----GGAT-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Phja AGCCTA---TAATTAT-----TTAGGGC-AAA TCC--GTCTCT GTTGCAATAGA-G
 Brsp AGCCT----TTT-----GGGC-CTA CCC--GTCTCT GTTGCAAAAGA-G
 Gamo AGCCT----ATAA-----A--GGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Lolo AGCCTA-----C-----ATAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Batr AGTC-A---CTGA-----C-GAAC-ACA CCC--ATCTCT GTTGCAAAAGA-G
 Prmy -ATCAA---CTAA-----AGGAT TATA CCC--CCCTCT GTTGCAAAAGA-G
 Loli AGCCTT---CATA-----AAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Loam AGCCTA---TTT-----AAAGGGC-ACA CCC--GTCTCT GTTGCAAAAGAG
 Chab AGCCTA---T-CA-----TAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Chto AGCCTA---TCA-----TAGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Majo AGCCTG---ACA-AT-----AGGGC-GAA CCC--GTCTCT GTTGCAAAAGA-G
 Hlst AGCCTA---TTAAAG-----GGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Clpe AGCCCA-----TA-----ATGGGGC-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Mlmr AGCCTA---TAAA-----TAGGGC-GAA CTC--GTCTCT GTTGCAAAAGA-G
 Crcr ACCTAAA-TC-----TAGGGT-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Muce ACCTA---AATC-----TAGGGT-AAA CCC--GTCTCT GTTGCAAAAGA-G
 Bege ACCTA---ATAAA-----TAGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Mela AGCCTAATAAA-----AAGGGC-CAA CCC--GTCTCT GTTGCAATAGA-G
 Hats AGCCTG---ACA-----ACAGGGC-CAA CCC--GTCTCT GTTGCAAAAGA-G
 Orla AGCCTG---AATAA-----CAGGGC-TAA CCC--GTCTCT GTTGCAAAAGA-G

Cosa AGCCTA---AAT-----ATAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Exsp AGCCTG---ACA-----ACAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Depa AGCCCA---A--A-----AGGGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Rima AGTC TT---TTA-T-----AGGAC-ACA CCC- GTCTCTGTGGCAAAAGA-G
 Fuol AGCCTA---ATA-TT-----AGGGC-ACA CCC- GTCTCTGTGGCAAAAGA-G
 Gmaf AGCCTA---ATA-AA-----AGGGC-CAA TCC- GTCTCTGTGGCAAAAGA-G
 Xeei AGCCTA---TTA-----ATAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Pros AGCCTA---TAA-----CAGGGC-AAC CCC- GTCTCTGTAGCAAAAGA-G
 Scmi AGCCTA---TAATA-----TAGGGC-AAA CCC- GTCTCTGTGCAAAAGA-G
 Rolo AGCCT---ATT-AT-----AGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Cere AGCCTA---TTTT-----AGGGC-AAA CCC- GTCTCTGTTGCAAAAGA-G
 Daga AGCCTA---TTG-----TAGGGC-AAA CCC- GTCTCTGTTGCAAAAGG-G
 Anco AGCCTATCC-----AGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Dmve AGCCTA---TCA-----TAGGGA-TAA CCC- GTCTCTGTGGCAAAAGA-G
 Dmar AGCCTA---TCA-----TAGGGC-TAA CCC- GTCTCTGTGGCAAAAGA-G
 Anka AGCCTA---TA-----TAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Moja AGCCTA---T-----ATAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Hoja AGCCTA---TA-----TAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Bede AGCCTA---T-A-----ACAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Bosp AGCCTA---TA-----ACAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Mysp AGCCTA---T-T-----ATAGGGC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Osja AGCCTA---TT-A-----TAGGGC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Sgro AGCCCA---T-AA-----TGGGGC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Pzpa AGCCCA---AT-----TGGGGC-TAA CCC- GTCCCTGTGGCAAAAGG-G
 Zeja AGCC C-----AAC-----TGGGGC-AAA CCC- GTCCCTGTGGCAAAAGG-G
 Znne AGCC C-----AAT-----TGGGGC-AAA CCC- GTCCCTGTGGCAAAAGG-G
 Zefa AGCCCA---AT-----TGGGGC-AAA CCC- GTCCCTGTGGCAAAAGG-G
 Acni AGCCCA---ATT--G-----GGGC-CAA CCC- GTCCCTGTGGCAAAAGG-G
 Ncrh AGCCCA---AT---T-----GGGGC-CAA CCC- GTCCCTGTGGCAAAAGG-G
 Agca AGCCT-----GTTA-----ATAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Hydy AGCCTG---TTA--A-----TAGGGC-ACA CCC- GTCTCTGTTGCAAAAGA-G
 Gsac AGCCT-----ATTA-----ATAGGGC-ACA CCC- GTCTCTGTTGCAAAAGA-G
 Pevo AGCCTA---TTA-AT-----AGGGC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Hiku AGTCAA---AA---CAT-----AATGGAC-AAA TCC- GTACCTGTGGCAAAAGG-T
 Inpa ACCCT---AATA-----ACTGGGT-TAA CCC- GTCCCTGTGGCAAAAGG-G
 Auch AGCCTA---AT-A-----TAAGGGC-GAA CCC- GTCCCTGTAGCAAAAGG-G
 Fico AGCTTA---CTT-----ATAGAGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Macs AGCCTA---ACAA-----TAGGGC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Moal AGCCT-----AATA-----ATAGGGC-GAA CCC- GTCTCTGTGGCAAAAGA-G
 Syma AGTCTAC--AA-----CAGGAC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Maf r AGCCCA---TA-----TGGGGC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Dcpe AGCCTA---GCA-AT-----AGGGC-CAA CCC- GTCTCTGTAGCAAAAGA-G
 Dct i AGCCTA---GTA-AT-----AGGGC-CAA CCC- GTCTCTGTAGCAAAAGA-G
 Hehi AGCCTA---TTTA-----TAGGGC-GAA CCC- GTCTCTGTGGCAAAAGA-G
 Stam AGCCTA---TTAA-----TAGGGC-CAA CCC- GTCTCTGTGGCAAAAGA-G
 Hogi AGCCTA---TTT--A-----TAGGGC-AAA CCC- GTCCCTGTGGCAAAAGG-G
 Erzo AGCCT-----ATTA-AT-----A--GGGC-ACA CCC- GTCTCTGTGGCAAAAGA-G
 Hxot AGCCT-----ATCA-AT-----A--GGGC-GTA CCC- GTCTCTGTGGCAAAAGA-G
 Core AGCCTA---TTAAT-----AGGGC-ATA CCC- GTCTCTGTGGCAAAAGG-G
 Apve AGCCTA---TTAA-----TAGGGC-TTA CTC- GTCTCTGTAGCAAAAGA-G
 Lat j AGCCTG---TTTA-----CAGGGC-AAA CCC- GTCTCTGTGGCAAAAGA-G
 Laja AGCCTA---AT--AT-----AGGGC-ACA CCC- GTCTCTGTGGCAATAGA-G

Syja AGCCTA---ATA--C-----AGGGC-CAA CCC--GT TCT GTGGCAAAAGA-A
 Epme AGCCTA---ATCA-----ATAGGGC-CAA CCC--GT TCT GTGGCAAAAGA-G
 Grse AGCCATT-AA-----TAGGGC-GAA CCC--GT TCT GTGGCAAAAGA-G
 Clja AGCCTA---AAAA-----TAGGGC-GAA CCC--GT TCT GTTGAAGAGA-G
 Ogcy AGCCTA---TAAAT-----AGGGC-ACA CCC--GT TCT GTGGCAAAAGA-G
 Plna AGCCTA---AAAT-----ATAGGGC-CAA CTC--GT TCT GTGGCAAAAGA-G
 Lema AGCCTA---TCAT-----TAGGGC-ACA CCC--GT TCT GTGGCAAAAGA-G
 Etzo AGCCTA---TTAAT-----AGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Apse AGCCT----CTA-----AGGGC-GCA CCC--GT TCT GTGGCAAAAGA-G
 Epde AGCCTA---ATA-----TAGGGC-GAA CCC--GT TCT GTTGAAGAGA-G
 Slja AGCCTA---TGTAAG-----TTAGGGC-GAA CCC--GT TCT GTGGCAAAAGA-G
 Bsja AGCCTA---CACA-----ATAGGGC-GAA CCC--GT TCT GTGGCAATAGA-G
 Ecna AGCCTA---TTAA-----AGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Cohi AGCCATT-A-----TAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Caar AGCCTA---TTT-----ATAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Came AGCCTA---TTTA-----TAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Mema AGCCTA---TCCA-----TAAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Lenu AGCC-A---ACA-----ATTGGG-AAA CCC--GT TCT GTGGCAAAAGA-G
 Brja AGCCTA---TCA-----TAGGGC-AAA TCC--GT TCT GTGGCAAAAGA-G
 Plma AGCCTA---TCAA-----TAGGGC-GAA CCC--GT TCT GTGGCAAAAGA-G
 Emst AGCCTA---TCAA-----TAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Ptti AGCCTA---GTA-----TAAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Losu AGCCTG---ACTT-----ACAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Geoy AGCCTG---TTTA-----GAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Dipi AGCCTA---TTCA-----TTAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Pama AGCCTA---TT-----GTAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Leob AGCCTG---TAG-----CAGAGG-CAA CCC--GT TCT GTGGCAAAAGA-G
 Neba AGCCT----ATCA-----A-GGGC-GAA CCC--GT TCT GTGGCAAAAGA-G
 Pdpi AGCCTA---GTATAT-----AGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Nimi AGCCTAA--AA-----TAGGGC-GAA CCC--AT TCT GTAGCAAAAGA-G
 Uptr AGCCTG---ACA-AT-----AGGGC-GAA CCC--GT TCT GTGGCAAAAGA-G
 Pesc AGCCT----A-TA-----TAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Baar AGCCATTATAGCCTGGCACTATAAATAGGGC-GAA CCC--GT TCT GTGGCAACAGA-G
 Moar AGCCTAT---CAA-----TAGGGC-GAA CCC--GT TCT GTGGCAAAAGA-G
 Toja AGCCTG---TTTA-----CAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Chau AGCCT----ATCT-----A-GGGC-AAA CCC--GT TCT GTAGCAAAAGA-G
 Chse AGCCTA---GTA--A-----TAGGGC-GAA CCC--GT TCT GTGGCAAAAGA-G
 Enar AGCCTA---TAA--A-----TAGGGC-ACA CCC--GT TCT GTGGCAAAAGA-G
 Hpty AGCCT----AATA-----CAGGGC-AAA CCC--GT TCT GTGGCAAAAGA-G
 Nana AGCCTA---ACTA-----AAGGGC-CAA CCC--GT TCT GTGGCAAAAGA-G
 Mcst AGCCTA---TTAA-----TAGGGC-AAA CCC--GT CCT GTGGCAAAAGG-G
 Rhox AGCCTA---AA-----ATAGGGC-AAA CCC--GT CCT GTGGCAAAAGG-G
 Opfa AGCCTG---TTAGT-----A-GGGC-AAA CCC--GT CCT GTTGAAGAGG-G
 Paar AGCCTA---TTAA-----TAGGGC-ACA CCC--GT TCT GTGGCAAAAGA-G
 Gozo AGCCTA---ATTA-----ATAGGGC-ACA CCC--GT TCT GTTGAAGAGA-G
 Ackr AGCCTA---TTAAT-----TAGGGC-TAA CCC--GT TCT GTCGCAAAAGA-G
 Elev AGCCTA---TTT-----TAGGGC-ACA CCC--GT TCT GTGGCAAAAGA-G
 Trdu AGTC TA---ATTTAT-----AGGAC-CAC CCC--AT TCT GTGGCAAAAGA-G
 Amoc AGCCTA---AAAA-----CAGGGC-ACC CCC--GT TCT GTGGCAAAAGA-G
 Hame AAACA---AA-----CA-CTC-GAA CCC--TT TCT GTGGCAAAAGA-G
 Chso AGCCTA---TAA-----CAA GGC CAAA CCC--GT TCT GTGGCAAAAGA-G
 Lyto AGCCTA---TTAA-----TAGGGC-ACA CCC--GT TCT GTGGCAAAAGA-G

Encr	AGCC	TA---	TTA-----	ATAG	GGC	-ACA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Bvar	AGCC	T-----	ATTA-----	ATAG	GGC	-AAA	CCC	--GT	CTCT	GTGC	CAAA	AGA	-G
Noco	AGCC	TG---	TTAAT-----	AGG	TGC	-GCA	CCC	--GT	CTCT	GTTG	CAAA	AGA	-G
Chsp	AGCC	TT---	AT-----	G	GGC	-ACA	CCC	--GT	CCCT	GTAG	CAAA	AGG	-G
Arja	AGCC	TA---	TTA-----	ATAG	GGC	-ACA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Pase	AGCC	TA---	CCAA-----	GCAG	GGC	-CTA	CCC	--GT	ATCT	GTAG	CAAA	AGA	-T
Trel	AGCC	-----	TTT-----	AAAG	GGC	-GTA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Lifa	AGCC	TT---	TC-----	TTAG	GGC	-GCA	CCC	--GT	CTCT	GTTG	CAAA	AGA	-G
Acur	AACC	TA---	AT-G-----	TAG	GGT	-GAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Ampe	AGCC	TA---	TAAT-----	TAC	GGC	-CAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Urja	AGTC	TA---	GTA--A-----	TAG	GAC	-TAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Enet	AGCC	T-----	AAAT-----	ACAG	GGC	-ACA	CCC	--GT	TCT	GTGG	CAAA	AGA	-A
Ptbr	AGTC	TA---	CATTC-----	GTAG	GAC	-CTA	CCC	--GT	CTCT	GTGG	CAAG	AGA	-G
Safa	AGTC	TA---	ATT-----	AATA	GGA	-CTA	CTCC	GT	CTCT	GTGG	CAAA	AGA	TG
Icae	AGCC	TA---	TCAA-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Asmi	GGTC	TA---	CTAT-----	TAG	GAC	-CCA	CCC	CCGG	CTCT	GTTG	CAAA	AGA	-G
Foal	AACC	TT---	ATT-----	GAAG	GGT	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Drze	AGCC	TA---	GAATA-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTAG	CAAA	AGA	-G
Rhas	AGCC	TA---	ACA-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Elac	AGCC	TA---	TAA-----	G	GGC	-GCA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Kugu	AGCC	TA---	TA-----	AG	GGC	-GAA	CCC	--GT	CTCT	GTGC	CAAA	AGA	-G
Plor	AGCC	TA---	TCAT-----	TAG	GGC	-CAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Sgun	AGCC	TA---	TAAA-----	CAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Zaco	AGCC	TAC---	CAA-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Zbfl	AGCC	TA---	TCA-AT-----	AG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Spba	AGCC	TA---	CCAA-----	TAG	GGC	-GAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Game	AGCC	TA---	TCAA-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Thth	AGCC	TA---	TC-A-----	ATAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Xigl	AGCC	TA---	TTTAT-----	TAG	GGC	-GAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Hyja	AGCC	TATC-AA-	-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAT	AGA	-G
Psan	AGCC	TA---	TAAATA-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAT	AGA	-G
Cupa	AGCC	TA---	TCA-AT-----	AG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Mpch	AGCC	TA---	A-A-A-----	TAG	GGC	-CAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Char	AGCC	TATT-T-	-----	TAG	GGC	-CAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Pser	AGCC	TA---	TCT-----	ATAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Prol	AGCC	TA---	TTTA-----	TAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Plbi	AGCC	TA---	TTTAT-----	AG	GGC	-GAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Calu	AGCC	TA-----	T-----	ATAG	GGC	-AAA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Papa	AGCC	TA---	CAAAC-----	CAG	GGC	-AAA	CCC	--GT	CTCT	GTAG	CAAA	AGA	-G
Sufr	AGTC	TC----	AAA-----	TAG	GAC	-GCA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Stci	AGCC	TA---	TTAA-----	TAG	GGC	-ACA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Taru	AGCC	TTTA-	-----	TAG	GGC	-ACA	TCC	--GT	CTCT	GTGG	CAAA	AGA	-G
Rala	AGCC	TA---	TAA-----	ATAG	GGC	-ACA	CCC	--GT	CTCT	GTGG	CAAA	AGA	-G

* * * * * * * * * *

	13'	11'	14	14'	10'	9'	15								
Scca	TGGC	AA	GAC	TTCC	CGAGTAG	TGGT	GACAA	GCC	TACCGA	GTTTAC	TGATAGCT	GG	TT	ACCCA	A
Muma	TGGC	AA	GAC	TTCC	CGAGTAG	CGGT	GAAAA	GCC	TACCGA	GTTTAC	TGATAGCT	GG	TT	ACCCA	A
Erca	TGGC	AA	GAC	TTCC	CAAGTAG	AGGT	GATAA	GCC	TAACGA	GCCTAG	TAATAGCT	GG	TT	ACTCA	A
Pose	TGGC	AA	GAC	TTCC	CAAGTAG	AGGT	GACAA	GCC	TAACGA	GCCTAG	TGATAGCT	GG	TT	ACTTC	A
Actr	TGGC	AA	GAT	CTCC	CGAGTAG	AGGC	GACAA	ACC	TAACGA	GCCTAG	TAATAGCT	GG	TT	GCTCA	G
Scal	TGGC	AA	GAT	CTCC	CGAGTAG	AGGC	GACAA	ACC	TAACGA	GCCTAG	TAATAGCT	GG	TT	GCTCA	G
Posp	TGGC	AA	GAT	CTCC	CGAGTAG	AGGC	GACAA	ACC	TAACGA	GCCTAG	TAATAGCT	GG	TT	GCTCA	A
Atsp	TGGC	AA	GAT	CTCC	CGAGTAG	CGGT	GATAG	ACC	TAACGA	GCCTAG	TGATAGCT	GG	TT	GCTTA	G
Leoc	TGGC	AA	GAT	CTCC	CGAGTAG	CGGT	GACAG	ACC	TAACGA	GTCTAG	TGATAGCT	GG	TT	GCTTA	G
Amca	TGGC	AA	GAT	CTCC	CAAGTAG	TGGT	GACAG	ACC	TAACGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	G
Osbi	TGGC	AA	GAT	CTTC	CAAGTAG	AGGT	GACAA	ACC	TAACGA	ATCTAG	TGATAGCT	GG	TT	GCTTC	A
Pabu	TGGC	AT	GAT	CCCT	GAGTAG	AGGT	GACAA	ACC	TAACGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	A
Hial	TGGC	AA	GAT	CTCC	CGAGTAG	AGGT	GACAG	ACC	TAACGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	G
Elha	TGGC	AA	GAT	CCCC	CGAGTAG	AGGT	GAAAA	ATC	TAACGA	GTCTAG	TCATAGCT	GG	TT	GCTTA	G
Mlcy	TGGC	AA	GAT	CTCC	CAAGTAG	AGGT	GACAA	ACC	TAACGA	GTTTAC	TGATAGCT	GG	TT	GCTTA	A
Algl	TGGC	AA	GAC	TCCC	CGAGTAG	AGGT	GACAG	ACC	TATCGA	GCTCGG	TTATAGCT	GG	TT	GCTTA	G
Ptgi	TGGC	AC	GAT	CCCC	CGAGTAG	AGGT	GACAA	ACC	TATCGA	GCCTAG	TTATAGCT	GG	TT	GCTTA	G
Alaf	TGGC	AA	GAC	CCCC	CGAGTAG	AGGT	GACAA	ACC	TATCGA	GTCTAG	TTATAGCT	GG	TT	GCTTA	G
Nock	TGGC	AA	GAC	CCCC	CGAGTAG	AGGT	GATAA	ACC	TATCGA	GCCTAG	TTATAGCT	GG	TT	GCTTA	G
Anja	TGGC	AA	GAC	CCCC	CGAGTAG	AGGT	GATAA	GCC	TACCGA	GCCTAG	TTATAGCT	GG	TT	GCTTA	A
Gyki	TGGC	GAC	GAC	TCCC	CGAGTAG	AGGT	GACAA	GCC	TACCGA	ACCTGG	TGATAGCT	GG	TT	GCTCA	G
Syka	TGGC	AA	GAC	CCCC	CGAGTAG	AGGT	GAAAA	GCC	TACCGA	GCCTAG	TTATAGCT	GG	TT	GCTTA	A
Opma	TGGC	AA	GAC	CCCC	CGAGTAG	AGGT	GAAAA	ACC	TAACGA	GCCTAG	TTATAGCT	GG	TT	GCTTA	A
Comy	TGGC	AA	GAC	TTCC	CGAGTAG	AGGT	GAAAA	GCC	TACCGA	GCCTAG	TTATAGCT	GG	TT	GCTTA	A
Sasp	TGGC	AA	GAC	CCCC	CAAGTAG	AGGT	GACAA	ACC	AACCGA	GCCCCG	TTATAGCT	GG	TT	GCTTA	A
Eupe	TGGC	AA	GAC	CCCC	CGAGTAG	AGGT	GATAG	ACC	TATCGA	GCCTAG	TGATAGCT	GG	TT	GCTTA	A
Enja	TGGC	AA	GAT	CTCC	CGAGTAG	AGGC	AAAAA	ACC	TACCGA	GCCAAG	TTATAGCT	GG	TT	GCCCC	A
Same	TGGC	AA	GAC	CCCC	CGAGTAG	AGGT	GAAAG	ACC	TACCGA	GTCAGG	TTATAGCT	GG	TT	GCCCC	A
Chch	TGGC	AA	GAT	CTCC	CGAGTAG	AGGT	GACAG	ACC	TACCGA	ACTTAG	TGATAGCT	GG	TT	GCCCC	A
Grgr	TGGC	AA	GAG	CTCC	CGAGTAG	AGGT	GACAG	ACT	TACCGA	GCTTGG	TGATAGCT	GG	TT	GCCCC	G
Caau	TGGC	AA	GAG	CTCC	CGGTAG	AGGT	GACAG	ACC	TACCGA	ACCTGG	TGATAGCT	GG	TT	GCCTA	A
Cyca	TGGC	AA	GAG	CTCC	CGGTAG	AGGT	GACAG	ACC	TACCGA	ACCTGG	TGATAGCT	GG	TT	GCCTA	A
Dare	TGGC	AA	GAG	CTCC	CGGTAG	AGGT	GACAG	ACC	TATCGA	ACCCGG	CAATAGCT	GG	TT	GTCTG	G
Cost	TGGC	AA	GAG	CCCC	CGGTAG	AGGT	GACAG	ACC	TACCGA	ACTTGG	TGATAGCT	GG	TT	GCCTA	A
Leec	TGGC	AA	GAG	CCCC	CGGTAG	AGGT	GATAA	GCC	TACCGA	ACTTGG	TGATAGCT	GG	TT	GCCTA	A
CrIa	TGGC	GAC	GAG	CCCC	CGGTAG	AGGT	GATAG	ACC	TACCGA	ACTTGG	TGATAGCT	GG	TT	GTCTG	G
Clmc	TGGC	AA	GAT	CTCC	CAGGTAG	AGGT	GACAG	ACC	TACCGA	ACTTGG	TGATAGCT	GG	TT	GCCTA	G
Phin	TGGC	AA	GAT	CCCC	CGGTAG	AGGT	GAAAA	GCC	TACCGA	GCCTGG	TGATAGCT	GG	TT	GCCTA	A
Icpu	TGGC	AA	GAT	CTCC	CGGTAG	AGGT	GACAA	ACC	TACCGA	ACTTAG	TTATAGCT	GG	TT	GCCTA	A
Psto	TGGC	AA	GAT	TTCC	CGGTAG	AGGT	GACAA	ACC	TACCGA	ACCTAG	TTATAGCT	GG	TT	GCCTA	A
Cora	TGGC	AA	GAT	CTTT	GGGTAG	GGGT	GACAG	ACC	TACCGA	ACTTAG	TTATAGCT	GG	TT	GCCTA	A
Eisp	TGGC	AA	GAT	CTCC	CGGTAG	AGGT	GACAG	ACC	TATCGA	ACTTGG	TGATAGCT	GG	TT	GCCTA	A
Apal	TGGC	AA	GAT	CTCC	CGGTAG	AGGT	GACAA	ACT	TATCGA	GCTTGG	TGATAGCT	GG	TT	GCCTA	A
EsLu	TGGC	AA	GAT	CCCC	CGAGTAG	AGGT	GACAA	GCC	TACCGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	A
Dape	TGGC	AA	GAG	CCCT	GAGTAG	AGGT	GATAA	ACC	TATCGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	A
Glse	TGGC	AA	GAG	CTCC	CGAGTAG	AGGT	GATAA	ACC	TACCGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	A
Naar	TGGC	AA	GAG	CTCC	CGAGTAG	AGGT	GATAA	ACC	TACCGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	A
Baoc	TGGC	AA	GAG	CTCC	CGAGTAG	AGGT	GACAA	ACC	TACCGA	GTCTAG	TTATAGCT	GG	TT	GCTTA	A
Opso	TGGC	AA	GAG	CTCC	CGAGTAG	AGGT	GATAA	GCC	TACCGA	GTTTAC	TTATAGCT	GG	TT	GCTTA	A
Alte	TGGC	AA	GAA	CTCC	CGAGTAG	AGGT	GACAA	ACC	TACCGA	ACCCGG	TTATAGCT	GG	TT	GCCTA	A
Plap	TGGC	AA	GAA	CTCC	CGAGTAG	AGGT	GACAA	ACC	TACCGA	ACCCGG	TTATAGCT	GG	TT	GCCTA	A

Plal TGGGAAAGAGCTCCGAGTAGAGGTGAAAGACC TATCGA GTCTAG TTATAGCT GG TT GTTCCA
 Sami TGGAGAGAGCTCCGAGTAGAGGTGAAATACC TATCGA GTCTAG TTATAGCT GG TT GTTTAG
 Rere TGGGAAAGAGCTCCGAGTAGAGGTGAAATACC TATCGA GTCTAG TTATAGCT GG TT GCCCAG
 Gama TGGGAAAGAACTCTGAGTAGAGGTGATAAACCC TACCGA GTCTAG TTATAGCT GG TT GTCTAA
 Onmy TGGGACGAGCCCCGAGTAGAGGTGATAAACCC TATCGA GCCTAG TTATAGCT GG TT GCTTAG
 Sasa TGGGACGAGCCCCGAGTAGAGGTGACAAACC TATCGA GCCTAG TTATAGCT GG TT GCTTAG
 Cola TGGGAAAGAGCCCCGAGTAGAGGTGATAAACCC TATCGA GCCTAG TTATAGCT GG TT GCTTAG
 Dita TGGGAAAGAACTTTCGAGTAGAGGTGAAAAACC TACCGA ACCTAG TTATAGCT GG TT GCTTCG
 Gogr TGGGAGAAATTCGAGTAGAGGTGAAAGACC TACCGA GCCTAG CTATAGCT GG TT GCTTAC
 Chsl TGGGATGATCTCCGAGTAGAGGCAAAAACC AACCGA GCCTAG TTATAGCT GG TT GCTTAG
 Atja TGGGAAAGAGCTTTCGAGTAGAGGTGACAAACC TACCGA GCCTAG TAATAGCT GG TT GTCTAA
 lido TGGGAAAGAGCTTTCGAGTAGAGGTGACAAACC TACCGA GCCTAG TAATAGCT GG TT GTCTAA
 Auja TGGGAAAGAGCTCCGAGTAGAGGTGATAAACCC TACCGA GTTTAG TTATAGCT GG TT GCCTAG
 Chag TGGGAAAGAACTCTGAGTAGAGGTGACAGACC TACCGA GCCTAG TTATAGCT GG TT GCCTAG
 Hami TGGGAAAGAACTCCGAGTAGAGGTGATAAACCC TACCGA GCCTGG TTATAGCT GG TT GCCTAA
 Saun TGGGAAAGAGCTCCGAGTAGAGGTGATAAACCC TACCGA GCCTGG TTATAGCT GG TT GCCTAA
 Nema TGGGAAAGAGCTTTCAGTAGAGGTGACAAACC TATCGA GCCTAG TTATAGCT GG TT GCCTCG
 Disp TGGGACGATCTTTCAGTAGAGGTGACAAACC TATCGA GCCTAG TCATAGCT GG TT GTCTCA
 Myaf TGGGACGACCTTTCAGTAGAGGTGACAAACC TATCGA GCCTAG TCATAGCT GG TT GTTTAA
 Lagu TGGGAAAGAGCTTTCAGTAGAGGTGATAAACCC TACCGA GCCTAG TAATAGCT GG TT GCTTAG
 Trtr TGGGAGTAACTCCAGTAGAGGTGATAAACCC TACCGA ACCTGG TGATAGCT GG TT ATCTAG
 Zucr TGGGATGAAACGCTGAGTAGAGGTGATAAACCC TACCGA ACCTGG TGATAGCT GG TT ATCTAG
 Pxja TGGGAAAGAGCTTTCAGTAGAGGTGATAAACCC TACCGA GCCCAG TTATAGCT GG TT GCCTCA
 Pxlo TGGGAAAGAGCTTTCAGTAGAGGTGATAAACCC TACCGA GCCCAG TTATAGCT GG TT GCCTCA
 Pctr TGGGAAAGATCTTTCAGTAGAGGTGACAAACC TACCGA GCTCAG TTATAGCT GG TT GCCTCG
 Apsa TGGGAAAGATCTTTCAGTAGAGGTGACAAACC TACCGA GCTCAG TTATAGCT GG TT GCCTCA
 Cabe TGGGAAAGATTCCTGAGTAGAGGCATAAACCC TACCGA ACCCGG TTATAGCT GG TT GTCTCG
 Bzze TGGGAGGACCTTTCGAGTAGAGGTGACAGACC TACCGA ACCTAG TTATAGCT GG TT GCCTTA
 Siim TGGGAAAGACCTTTCGAGTAGAGGTGACAGACC TATCGA ACTTAG TTATAGCT GG TT GCCTCG
 Ctru TGGGAGAGAGCTTTCGAGTAGAGGTGATAAACCC TACCGA GTCTAG TTATAGCT GG TT GCCCAA
 Dpbr TGGGAAAGAGCTTTCGAGTAGAGGTGACAAACC TACCGA GTCTAG TTATAGCT GG TT GCCCAA
 Caki TGGGAAAGAGCTTTCGAGTAGAGGTGATAAACCC TATCGA GCACAG TTATAGCT GG TT GCCTAA
 Phja TGGGAGAGAGCTTTCAGTAGAGGTGATAAACCC TACCGA GCACAG TTATAGCT GG TT GCCTCA
 Brsp TGGGAGAGAGCTCCGAGTAGAGGTGATATACC TATCGA GCCCAG TTATAGCT GG TT GTCTCA
 Gamo TGGGAAAGAGCTTTCGAGTAGAGGTGACAAACC TACCGA GCCCAG TTATAGCT GG TT GCCTGT
 Lolo TGGGAAAGAGCTTTCGAGTAGAGGTGATAAACCC TACCGA GCACAG TTATAGCT GG TT GCCTCA
 Batr TGGGAAAGAGCACCAGTAGAGACAAAACATC TAACAA AATTAG TTATAGCT GG TT CCTCAA
 Prmy CGGGAAAGAGCCTTCAGTAGAGACGAAACATC TACCCT ATACAG TTATAGCT GG TT GCCCAA
 Loli TGGGAAAGAGCTTTCGAGTAGAGGTGACAAACC TACCGA GCTTAG TTATAGCT GG TT CCCTCG
 Loam TGGGAAAGAGCTTTCGAGTAGAGGTGACAGACC TACCGA GCTTAG TTATAGCT GG TT CCCTCG
 Chab TGGGAGAGAGCTTTCGAGTAGAGGTGAAAAACC TACCGA GCCTAG TCATAGCT GG TT GCCTCG
 Chto TGGGAGAGAGCTTTCGAGTAGAGGTGAAAAACC TACCGA GCCTAG TCATAGCT GG TT GCCTCG
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 Hlst TGGGAAAGATCTTTCGAGTAGAGGTAAAAACC TACCGA GCTTAG TTATAGCT GG TT GCCCCG
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 Mlmr TGAGAAAGAGCTTTCGAGTAGAGGTAAAAACC AACCGA GCCTAG TTATAGCT GG TT GCCTCG
 Crcr TGGGAAAGAGCTTTCGAGTAGAGGTGACAGACC TACCGA ACTTGG TTATAGCT GG TT GCTTCA
 Muce TGGGAAAGAGCTTTCGAGTAGAGGTGACAGACC TACCGA ACTTGG TTATAGCT GG TT GCTTCA
 Bege TGGGAAAGAGCTTTCAGTAGAGGTGATAAACCC TACCGA GCCTGG TTATAGCT GG TT ACCTCA
 Mela TGGGAAAGAGCTTTCGAGTAGAGGTGACAGACC TACCGA ACTTAG TTATAGCT GG TT ACCTCA
 Hats TGGGAAAGAGCTTTCGAGTAGAGGTGACAGACC TACCGA GCCTAG TTATAGCT GG TT ACCTCA
 Orla TGGGATGATCTTTCAGTAGAGGTGACAGACC TATCGA ACTAAG TTATAGCT GG TT GCTCGT

Cosa TGGCAAGAGCTTTGAGTAGAGGTGATAAACCTACCGAACCTTAGTAATAGCTGGTTGCCTGA
 Exsp TGGCAAGAACTTTGAGTAGCGGTGAAAAGCCGCCGACCTTAGTAATAGCTGGTTGCCTGA
 Depa TGGCAAGATCTTTGAGTAGAGGTGACAGACCTACCGAACCTTAGTAATAGCTGGTTATCTGA
 Rima TGGCAAGAGCTTTGAGTAGGGTGACAGACCTACCGAACCTGGTTATAGCTGGTTGCCTAA
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 Gmaf TGGCAAGAGCTTTGAGTAGAGGTGATAAACCTACCGAGCCTTAGTTATAGCTGGTTGCCTGT
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 Pevo TGGCAAGAGCTTTGAGTAGAGGTGACAGACCTACCGAACCCGGTTATAGCTGGTTGCCTCG
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 Auch TGGCACCATCTTCAAGTAGAGGTGACATACCTATCGAACCTGGCTATAGCTGGTTGCTTGA
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 Macs TGGCAAGAGCTTCGAGTAGAGGTGACAAACCTACCGAGCCCGTTATAGCTGGTTGCCTCG
 Moal TGGCGAGAGCTCCGAGTAGAGGTGACAGATCACCGAACCTTAGTTATAGCTGGTTGCCTGA
 Syma TGGCAAGAGCTTTGAGTAGAGGTGATAAACCTACCGAACCTTAGTTATAGCTGGTTACCTGA
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 Lat j TGGCAAGAGCTTTGAGTAGAGGTGACAGACCTACCGAACCTTAGTTATAGCTGGTTGCCTGA
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Syja TGGGAA**GAACTT**CGAGTAGTGGT**GACAG**ACC**TATCGA**ACCTAGTTATAGCTGGTT**GCCTG**G
 Epme TGGGAA**GACTTT**CGAGTAGAGGT**GACAA**ACC**TACCGA**ACTTAGTAATAGCTGGTT**GCCCA**A
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 Plna TGAGAA**GATCTT**CAAGTAGAGGT**GAAAC**ATC**TACCGA**ACTTAGTTATAGCTGGTT**GCTTA**G
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 Came TGGG**GAG**AGCTT**CGAGTAG**GGT**GACAG**ACC**TATCGA**ACTCAGTTATAGCTGGTT**GCCCG**G
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 Ptti TGGGAA**GAGCTT**TGAGTAGAGGT**GACAG**ACC**TACCGA**GCC**CA**TTATAGCTGGTT**GCCTG**A
 Losu TGGGAA**GAACTT**CGAGTAG**GAGT**GACAG**ACC**TATCGA**ATCTAG**TTATAGCTGGTT**GCCTG**A
 Geoy TGGG**GAG**ATCTT**CGAGTAG**AGGT**GACAG**ACC**TATCGA**GCCTAGTTATAGCTGGTT**GCCTA**A
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 Leob TGGGAA**GAGCTT**CGAGTAGAGGT**GACAG**ACC**TACCGA**GCCTAGTTATAGCTGGTT**CCCTG**G
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 Chso TGGGAA**GAGCTT**TGAGTAGAGGT**GACAG**ACC**TATCGA**ACTTGGTT**GCCTG**A

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 Encr TGGGAGGAGCTTTGAGTAGAGGTGACAGACC TACCGAACCTAGTTATAGCTGGTTGTCCA
 Bvar TGGGAGAGAGCTTTGAGTAGAGGCAACATACC TACCGAACCTAGTTATAGCTGGTTGCCAC
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 Rala TGGGAGGAGAGCTCTGAGTAGAGGTGACAAACC TACCGAACCTAGTTATAGCTGGTTGCTCG

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	16	16'	17	!	HVR					
Scca	GAAAA	GAAC	TTTA	ATTC	TGC	ATT	AATC	CCCT	-----	TT
Muma	GAAAA	GAAC	TTTA	GTTT	TGC	ATT	AACT	CTTT	-----	AC
Erca	GAAAT	GAAT	AAAA	GTTT	CAGC	CTC	AAAT	ATTC	-----	TA
Pose	GAAAT	GGAT	AAAA	GTTT	CAGC	CTC	AAAA	AATC	-----	TA
Actr	GAAAT	GAAT	ATTA	GTTT	CAGC	CTC	AGG	CTTC	-----	TA
Scal	GAAAT	GAAT	ATTA	GTTT	CAGC	CTC	AGG	CTTC	-----	TA
Posp	GAAAT	GAAT	ATTA	GTTT	CAGC	CTC	AGG	CTTC	-----	TA
Atsp	GAAAC	GAAT	ATTA	GTTT	CAGC	CTC	AGA	CATA	-----	CT
Leoc	GAAAC	GAAT	ATTA	GTTT	CAGC	CTC	AGA	CATG	-----	CT
Amca	GAAAT	GGAT	ACA	GTTT	CAGC	TTT	AGG	ATAC	-----	TC
Osbi	AAAAT	GAAT	TTTA	GTTT	CAGC	CAT	ATAG	CCTG	-----	CT
Pabu	AAAAT	GAAT	ATAA	GTTT	CAGC	CTT	ACAC	TCTC	-----	CT
Hial	GAAAT	GGAT	ATTA	GTTT	CAGC	CCC	ATGG	CCTT	-----	CT
Elha	GAAAT	GAAT	ATTA	GTTT	CAGC	CCC	ACGA	CCTG	-----	CT
Mlcy	GAAAT	GAAT	ATAA	GTTT	CAGC	CTC	CAGA	GCCT	-----	AC
Algl	GAAAT	GGAT	ATTA	GTTT	CAGC	CTT	ATGT	TATG	-----	CT
Ptgi	GAAAT	GAAT	ATTA	GTTT	CAGC	CTT	ACAC	TATT	-----	CTC
Alaf	GAAAT	GAAT	TTTA	GTTT	CAGC	CCC	ACCC	GTTT	-----	T
Nock	GAAAT	GAAT	TTTA	GTTT	CAGC	CCT	ACTC	GTTT	-----	
Anja	GAAAT	GAAT	GTTA	GTTT	CAGC	CTT	ATGT	AATT	-----	CTAT
Gyki	AAAAT	GAAT	ATAA	GTTT	CAGC	GCC	GTA	ACTT	-----	
Syka	GAAAT	GAAT	GTTA	GTTT	CAGC	CTT	ATAT	ATTC	-----	
Opma	GAAAT	GAAT	GTTA	GTTT	CAGC	CCC	ACAT	ATTC	-----	
Comy	GAAAA	GAAT	ATGA	GTTT	CAGC	CTT	ATAA	GTTT	-----	
Sasp	GAAAT	GAAT	GTTA	GTTT	CAGC	CTA	ATAT	AATT	-----	CTTTA
Eupe	AAAAT	GGAT	ATCA	GTTT	CAGC	CTT	AATT	AATC	-----	
Enja	TAAAT	GAAT	ACA	GTTT	CAGC	CCT	GCCT	AGCC	-----	
Same	GAAAT	GAAT	AGAA	GTTT	CAGC	CCC	GTTT	CGCC	-----	CT
Chch	GAAAT	GGAT	AGAA	GTTT	CAGC	CTT	ATCC	CCCT	-----	C
Grgr	GAAAT	GGAT	AAGA	GTTT	CAGC	CCC	CAA	CCAC	-----	CT
Caau	GAAAT	GGAT	AGAA	GTTT	CAGC	CTC	GTA	TCCC	-----	
Cyca	GAAAT	GAAT	AGAA	GTTT	CAGC	CTC	GTA	ACCT	-----	CAAA-
Dare	GAGAT	GAAT	AAAA	GTTT	CAGC	TTT	GTA	ACCC	-----	C-
Cost	GAAAT	GAAT	AGAA	GTTT	CAGC	CTC	GTA	TCCC	-----	TTTAA
Leec	GAAAT	GAAT	AGAA	GTTT	CAGC	CTC	ATAC	ACCC	-----	TC
CrIa	GAAAT	GAAT	AGAA	GTTT	CAGC	CTC	GCAC	CCCT	-----	T
Clmc	GAAAT	GGAT	AGAA	GTTT	CAGC	CTC	GTA	TCCC	-----	C
Phin	AAAAT	GAAT	AGAA	GTTT	CAGC	CTC	GTA	TCTT	-----	
Icpu	GAAAT	GAAT	AGAA	GTTT	CAGC	CTC	GTA	TCTT	-----	C
Psto	GAAAT	GAAT	AGAA	GTTT	CAGC	CTC	ACAC	TCTT	-----	TA
Cora	GAAGT	GGAT	AGAA	GTTT	CAGC	CTC	ACAC	CCCT	-----	
Eisp	AAAAT	GGAT	AAAA	GTTT	CAGC	CTC	ATAC	TCTT	-----	CACC-
Apal	GAATT	GGAT	AAAA	GTTT	CAGC	CTC	GTA	TCTT	-----	
EsLu	GAAAT	GAAT	AGAA	GTTT	CAGC	TCT	ATGG	GCCT	-----	CTC
Dape	GAAAT	GAAT	AGAA	GTTT	CAGC	TCT	TGG	TCTT	-----	CT
Glse	AAAAT	GAAT	AGAA	GTTT	CAGC	CCC	TGG	CTCC	-----	T
Naar	GAAAT	GAAT	AGAA	GTTT	CAGC	CCT	TGG	CTCC	-----	C-
Baoc	GAAAT	GAAT	AGAA	GTTT	CAGC	CCT	TGG	CTCC	-----	
Opso	GAAAT	GAAT	AGAA	GTTT	CAGC	CCC	TGG	CTCC	-----	TCTAG
Alte	GAAGT	GGAT	ATAA	GTTT	CAGC	CCC	TAC	CCCT	-----	
Plap	GAAAT	GGAT	AGAA	GTTT	CAGC	CCC	TAC	CCCT	-----	CAG-

Plal GAAATGAATAGGAGTTCAGCCCCCTAGCTTC-----TCAA
 Sami GAAATGAATAGGAGTTCAGCCCCCTGGCTTT-----
 Rere GAAATGAATAGGAGTTCAGCCCCCAACTTT-----
 Gama GAAGCGAATAGAA GTTCAGCCCTTCAAGTCA-----CCCAT
 Onmy GAAATGAATAGAA GTTCAGCCCCCGGCTTT-----
 Sasa GAAATGAATAGAA GTTCAGCCCCCTGGCTTT-----CT
 Cola GAAATGAATAGAA GTTCAGCCCCCTGGCTTT-----
 Dita AAAATGAATAGAA GTTCAGCCCTTCTGAGTTC-----TT
 Gogr AAAATGAGTAGAA GCTCAGCCCTCTGGGTTA-----TT
 Chsl GAAATGAATAGAA GTTCAGCCCTCCGTATTC-----TCCAG
 Atja GAAATGGATAGAA GTTCAGCCCTTCAAGACTT-----CC
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 Auja GAAATGGATAGAA GTTCAGCCCTTTAGCTTC-----C
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 Nema GAAATGGATAGAA GTTCAGCCCTCCGATAAC-----CCTC
 Disp AAAGTGTATATGAG GTTCAGCCCTTCCGGCTCC-----CCC
 Myaf GAAGTGAATTTAAG GTTCAGCCCTCTGACTCC-----
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 Trtr GAAGCGAATATAAG GTTCAGCCCCCATCTTC-----C
 Zucr AAAATGAATATAAG GTTCAGCCCCCGCCCTC-----
 Pxja GAAATGAATAGAA GTTCAGCCCTTTAGCTTC-----T
 Pxlo GAAATGAATAGAA GTTCAGCCCTTTAGCTTC-----TTAAC
 Pctr AAAATGAATATAAG GTTCAGCCCTCCGGCCCC-----CC
 Apsa GAAATGAATAAAA GTTCAGCCCTTTAACTTC-----
 Cabe GATATGAATAGGAG GTTCAGCCCCCTGGACCC-----AC
 Bzze GAAATGGATAGAA GTTCAGCCCCATGCCCTTC-----TC
 Siim GAAACGGATATAAG GTTCAGCCCTTCCGGTTTC-----TC
 Ctru GAAACGAATAGAA GTTCAGCCCTCTCAGGTTTC-----T
 Dpbr GAAACGAATAGAA GTTCAGCCCTCCGGATTC-----TC
 Caki GAAATGGATAGAA GTTCAGCCCTTTAAGCCAT-----TCC
 Phja GAAATGAATAGGAG GTTCAGCCCTTTAA AATT-----CCC
 Brsp GAAATGAATAGAA GTTCAGCCCTTATA AATT-----TTCCT
 Gamo GAAATGAATAGGAG GTTCAGCCCTTTAA GTCT-----TTC
 Lolo GAAATGAATAGAA GTTCAGCCCTCTAAGTCT-----TTC--
 Batr GAATAAGTATAAGCTTGGCCCTTTGTAAACA-----
 Prmy GAAATGAATAGAA GTTCAGCCCCGTAGCTCT-----TT
 Loli GAAATGGATAGGAGTCC AACCCCTAGGTTTC-----TTT
 Loam GAAATGGATAGGAGTTCAGCCCTTCTAAGTTC-----TTCA-
 Chab AAATTGGATAAAA GTTCAGCCCTCCAGGCTTT-----TCC
 Chto AAATTGGATAAAA GTTCAGCCCTCCAGGCTTT-----TCC
 Majo GAAATGAATAGCAG GTTCAGCCCTTACGGCTTC-----TCC
 Hlst GAAATGGATAGAA GTTCAGCCCTTCAAGGTTTC-----T-
 Clpe GATTTGGATAGAA GTTCAGCCCTCCCGCTTC-----TT
 Mlmr GACTTGGATAGAA GTTCAGCCCTCCGGCCCT-----T-
 Crcr AAAATGAATAGGAGTTC CGCTTCTTAAATTC-----TT
 Muce AAAATGAATAGGAGTTC CGCTTCTTAAATTC-----TTACC
 Bege AAATTGAATAGAA GTTCAGCCCTTGAATTC-----TC
 Mela AAATTGGATAGAA GTTCAGCCCTTAAAGTTC-----TC
 Hats AAATTGAATAGGAGTTCAGCCCTTGAATTC-----TT
 Orla GAAATGGATAGAA GTTCAGCCCTTTGGCTTTC-----C-

Cosa TAAATGAATAGAA GTTCAGCCTAT TAACTTT-----
 Exsp GAAATGAATAGAA GTTCAGCCTCCTCCCTTC-----TT
 Depa GAAATGAATACAA GTTCAGCCTAT TGC TTTT-----TTAAA
 Rima AAATTGAATAAAA GTTCAGCCTT TATTATTC-----TT
 Fuol GAACTAAATATAA GTTTAGCCTCT TATCTTC-----TTA
 Gmaf GAAATAAATTTAA GTTTAGCCTT TAA TATC-----TCA
 Xeei GAACTAAATAAAA GTTTAGCCTCT TATTTTC-----TC
 Pros GAAATGGATATGA GTTCAGC CCCCTGGACTC-----CCC
 Scmi GAAATGGATATAA GTTCAGC CCCCTAGATT-----TCCCG
 Rolo GAAATGAATAGTA GTTCAGC CCCCCGACTTC-----CC
 Cere GAAGTGGATAGAA GTTCAGC CCCCTAACTTA-----CC
 Daga GAAATGGATAGAA GTTCAGC CCCCCAACTTA-----T-
 Anco GAAATGAATAGAA GTTCAGC CTC CCGGACTTC-----CC
 Dmve GAAATGAATATAA GTTCAGC CTC CCGACTTC-----CC
 Dmar GAAATGAATATAA GTTCAGC CTC C AAGCCTT-----CC
 Anka AAAATGAATAGAA GTTCAGC CTC CAAA TATT-----CCTA
 Moja GAAATGAATAGAA GTTCAGC CTC CCGAATT-----CC
 Hoja GAAATGAATAGAA GTTCAGC CTC CCGACTTC-----CT
 Bede GAAATGGATAGAA GTTCAGC CCC CCGTATTT-----CCCAA
 Bosp GAAATGGATAAAA GTTCAGC CCC CCGTATTT-----
 Mysp AAAATGAATAGAA GTTCAGC CTC C AAGCTTC-----CC
 Osja GAAATGAATAGAA GTTCAGC CTC C AAGCTTC-----CCACA
 Sgro GAAATGAATTTAA GTTCAGC CCT C TAGATT-----CCA
 Pzpa GAAATGAATAAAA GTTCAGC CCT CCGGCTTC-----CT
 Zeja GAAATGAATAGAA GTTCAGC CCC CCGGCTTC-----C
 Znne GAAATGAATAGAA GTTCAGC TCT CCGGCTTC-----CC
 Zefa GAAATGAATAGAA GTTCAGC TCT CCGGCTTC-----
 Acni GAAATGAATAGAA GTTCAGC CCC CCGGCTTA-----CT
 Ncrh GAAATGAATAGAA GTTCAGC CCC CCGGCTTA-----CTG
 Agca GAAACGGATAGAA GTTCAGC CTC CCGGCTTC-----T
 Hydy GAAATGAATAGAA GTTCAGC CTT CCGGCTTC-----TC
 Gsac GAAATGAATAGAA GTTCAGC CTC CCGGCTTC-----T
 Pevo GAAATGAATAGAA GTTCAGC CCC ACCCTAC-----TTT
 Hiku AAAATGAATAAAA GTTCAGCCTAT TATTATAC-----CC
 Inpa GAAATGAATAGAA GTTCAGCCTCT TAACTTC-----TT
 Auch AAAATGGATAGAA GTTCAGCCTT GCCCTTTTC-----CTCAG
 Fico GAAATGAATAGAA GTTCAGC CCC ATACTTTA-----
 Macs GAAATGAATAGAA GTTCAGC CTC ACCGGCTTC-----T
 Moal GAACTGAATATAA GTTCAGC CTC CCGACTTC-----T
 Syma AAATTGAATTTAA GTTCAGC CTC CCAAATT-----TC
 Maf r GAACTGGATAGAA GTTCAGC CTC CAGGCTTC-----TT
 Dcpe GAAATGAATAGAA GTTCAGC CCC ATAGCCAC-----CCT
 Dct i GAAATGAATAGAA GTTCAGC CCC ATAA CCAC-----CCT
 Hehi GAACTGGATAGAA GTTCAGC CCC CCGACTTC-----TTTAT
 Stam GAATTGAATAGAA GTTCAGC CTC CCGGTTTC-----TT
 Hogi GAATTGAATAGAA GTTCAGC CCC TCCGTTCC-----TC
 Erzo GAAATGAATAGAA GTTCAGCCTT ATGGCTTC-----
 Hxot GAAATGAATAGAA GTTCAGC CTT T CAGCTTC-----
 Core GAAATGAATAGAA GTTCAGCCTCT TGGCTTC-----TT
 Apve GAAATGAATAAAA GTTCAGCCTCT AAGCTTC-----TC
 Lat j GAACTGGATAGAA GTTCAGC CTC CCGGCTTC-----TC
 Laja GAAATGGATAGGA GTTCAGC CTC CCGGCTTC-----TCT

Syja GAACTGGATAGAA GTTCAGCCTCACGGCTTC-----TC
 Epme TAACTGGATAGAA GTTCAGCCTCCCGCTTC-----TT
 Grse GAATTGAATAGAA GTTCAGCCTCCCGCTTC-----TC
 Clja GAAATGGATATGA GTTCAGCCTTCCGGGTTTC-----TC
 Ogcy AAAC TGAATAGAA GTTCAGCCTTTATGAATT-----CTC
 Plna GAACTGGATAGAA GTTCAGCCTCTTAGCTTC-----TT
 Lema GAAATGGATAGGA GTTCAGCCTCTCGGATTC-----
 Etzo GAATTGAATAGAA GTTCAGCCTCCCGGATTC-----TT
 Apse GAAATGAATAGGA GTTCAGCCTTTGGCTTC-----TT
 Epde GAATTGGATAGAA GTTCAGCCTCTCGGCTTC-----TC
 Slja AAGATGGATAGAA GTTCAGCCTCATGGCTTC-----TC
 Bsja GAAATGGATAGAA GTTCAGCCTCCCGGCTTC-----
 Ecna GAAGTGGATATAA GTTCAGCCCTGTAAATTT-----CT
 Cohi GAAATGAATAGAA GTTCAGCCTCCGAGCTTC-----T-
 Caar GAACTGGATAGAA GTTCAGCCTTATAGCTTC-----TC
 Came GAATTGGATAAAA GTTCAGCCTCATGGCTTC-----TC
 Mema GAACTGGATAGAA GTTCAGCCCTACGGCTTC-----TC
 Lenu GAAATGGATTTAA GTTCAGCCTCTGGCTTC-----TA
 Brja GAATTGGATATGA GTTCAGCCTCTAGGCTTC-----TT
 Plma GAATTGGATAGGA GTTCAGCCTCCAGGCTTC-----TC
 Emst GAATTGGATAGAA GTTCAGCCTCCCGGCTTC-----TT
 Ptti GAACTGAATAGAA GTTCAGCCTCCCGGCTTC-----
 Losu AAAATGGATAGGA GTTCAGCCTTTGGGCTTC-----TT
 Geoy GACCTGAATAGGA GTTCAGCCTCTGGGCTTC-----TTAAT
 Dipi GAATTGGATAAAA GTTCAGCCCTTGGGCTTC-----TTCCC
 Pama GAAATGGATAGAA GTTCAGCCTCACGGCTTC-----T
 Leob GAATTGGATAGAA GTTCAGCCTCTGGGCTTC-----
 Neba GAAATGGATATAA GTTCAGCCTACAGAATTCTTACTCCAGCCGTAAC TTTGACGTTGC
 Pdpi GAGCCGGATAAAA GTTCAGCCTTAAAAATT-----CTT
 Nimi GAAATGAATAGAA GTTCAGCCTTTCGAATTC-----TC-
 Uptr GAAATGAATAGCA GTTCAGCCCTACGGCTTC-----TCC
 Pesc GAACTGGATACGA GTTCAGCCCCAGGCTTC-----T--
 Baar GAATTGGATAT-AGTTTCAGCCTCCCGGCTTC---TCTCCTCAACACGTCGAAATTTTT
 Moar GAAATGGATAGAA GTTCAGCCTCCGAGCTTC-----TTTTT
 Toja GAACTGGATAGAA GTTCAGCCTCCCGGCTTC-----TCC
 Chau GAAATGGATAGGA GTTCAGCCTATGGGCTTC-----TT
 Chse GAACTGGATAGAA GTTCAGCCTCCCGGCTTC-----TC
 Enar GAATTGGATAGAA GTTCAGCCTCCCGGATTC-----TT
 Hpty GAATTGGATAGAA GTTCAGCCTCCCGGCTTC-----T-
 Nana GAATTGAATAGGA GTTCAGCTTCTAGGCTTC-----TTAA
 Mcst GAAATGGATAGAA GTTCAGCCTCTTAGCTTC-----TC--
 Rhox GAATTGGATACAA GTTCAGCCTCTCGGCTTC-----TC--
 Opfa GAATTGGATAGAA GTTCAGCCTCCCGGTTTC-----T---
 Paar GAAATGGATAGAA GTTCAGCCTCTCGGCTTC-----TTTAT
 Gozo GAACTGGATAGAA GTTCAGCCTCCCGGCTTC-----TT--
 Ackr GAATTGGATAGAA GTTCAGCCCTTGGGCTTC-----TT--
 Elev GAAATGGATAGAA GTTCAGCCTTTGGGCTTC-----TCTA
 Trdu AAAC TGAATAAAA GTTCAGCCCTTTAAATTTC-----TC--
 Amoc GAAATGAATAGAA GTTCAGCCTCACAAATTTC-----TT--
 Hame AAAATGGATAGAA GTTCAGCCTTTTAAATTTC-----
 Chso GAAATGGATAGAA GTTCAGCCTTTTAAATTTC-----TTT
 Lyto GAAATGAATAGAA GTTCAGCCTCCCGGCTTC-----TCTTT

Encr	GAAATGAATAGAA GTTCAGCCTCCTGCCTTC-----
Bvar	GAAATGGATAAAA GTTCAGCCTTACGGATTC-----T-
Noco	GAAATGAATAGTAGTTTCAGCCTCCCGCTTC-----TC
Chsp	AAAATGAATAGAA GTTCAGCCTCCAAATTC-----TT
Arja	GAAGTGAATAGAA GTTCAGCCTCTCGCTTC-----TC
Pase	GAAATGAATAGAA GTTCAGCCCTTTGGCTTA-----TT
Trel	GAAATGAGTAAAA GCTCAACCTGCGGATTC-----TC
Lifa	GAAATGGAT-CTAGTTTCAGCCTCTTGGTTTC-----
Acur	GAAGTGAATAGAA GTTCAGCCTCTAGTTTTT-----CT
Ampe	GAAATGAATAGAA GTTCAGCCTCCCGCTTC-----T-
Urja	CAATTGAATAGAA GTTCAGCCTCTTGACTTC-----TT
Enet	GAAGTGGATAGGAGTTTCAGCCCTTTTAATTC-----T
Ptbr	GAAATGAATAGAA GTTCAGCTTTTAAACTTC-----TC--
Safa	GAAATGAATAGAA GTTCAGCCCTTTAATGCTC-----TT
Icae	GAATTGGATAGGAGTTTCAGCCTCCAGGCTTC-----T-
Asmi	AAAATGGATATGAGTTTCAGCCCTTTAATATTT-----C-
Foal	GAAATGGATAACA GTTCAGCACTATTAATTC-----CTC-
Drze	AAAATGAATAGAA GTTCAGCCTTTTATATTC-----T-
Rhas	GAAGTGAATAGAA GTTCAGCCTTTTGAATTC-----TT
Elac	GAAGTGAATAGAA GTTCAGCCTTTTAGCTTC-----TT
Kugu	GAAACGAATAGAA GTTCAGCTGCCTCCTGGTTA-----TT
Plor	GAATTGGATAGAA GTTCAGCCTCTCGCTTC-----
Sgun	GAAATGGATAGAA GTTCAGCCTCCCGCTTC-----TTAA
Zaco	GAATTGGATAGAA GTTCAGCCTCTCGCTTC-----TT
Zbfl	GAATTGGATAGAA GTTCAGCCTCTAGGCTTC-----TTT--
Spba	GAAATGAATAGGAGTTTCAGCCTCCCGCTTC-----TCTCT
Game	GAATTGGATAGGAGTTTCAGCCTCCAGGCTTC-----T----
Thth	GAATTGGATAGGAGTTTCAGCCTCCAGGCTTC-----TCT--
Xigl	GAATTGGATAGAA GTTCAGCCTTTCGGCTTC-----TC--
Hyja	GAATTGGATAAGAGTTTCAGCCTCCAGGCTTT-----CT--
Psan	AAATTGGATAAGAGTTTCAGCCTCTAGGATTC-----TT--
Cupa	GAATTGGATAGGAGTTTCAGCCTCCCGCTTC-----TCC--
Mpch	GAAATGAATAGAA GTTCAGCTTTTGGTTTC-----TC--
Char	AAATTGAATATAAGTTTCAGCCCCCTGCCTTC-----T----
Pser	AAACTGGATATAAGTTTCAGCCTCCCGCTTC-----TC--
Prol	GAATTGGATAGAA GTTCAGCCCTCTGGGTTTC-----C----
Plbi	GAATTGAATAGAA GTTCAGCCCCCTGGGTTTC-----TC--
Calu	GAGATGGATATTAGTTTCAGCCCTCTCTCTTT-----TT--
Papa	GAATTGAATTTAAGTTTCAGCCTCTAAGCTTC-----TT--
Sufr	GAAATGGATAGAA GTTCAGCCCCCTAGACCC-----TT--
Stci	GAATTGGATAGAA GTTCAGCCCTTTTACTT-----
Taru	GAAGTGAATATAAGCTCAGCCTTTTGGCTTC-----TT--
Rala	GAATTGGATAGAA GTTCAGCTTCCTGGTTTC-----TC--

*

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Scca C T A C T A A A T - - - - - A A G A A T C T T C T T A T T A A A G T T A A A C A - - - - - T A G A **G A T T A A T** A G
 Muma T A T C T - A G A C A A G A A - - - - - T T T C T C G T C A A A G A A A A - - C T A T A A G **A G T T A A T** A G
 Erca A G T A T A C - T A A A G T A C C A C C T A A - - - - - A A A A T T T - - - T A A - - - - - G A A C **A T T T G A C** A G
 Pose A A A A T A T - - - - - A T A A G T A C T A C C T A A A - - - - - A A T T T T A A G A A A **G T T T G A C** A G
 Actr C T G T C A C C C A G G T C A T T A C C A A C A A A G A C - A C C A A - - - - - G A A A A **C C T T A A G** A G
 Scal C T G T C A C C C - - - - - A A G T T A T T A C C A A C C A A G A C A C C A A - - - - - G A A A A **C C T T A A G** A G
 Posp C T G T C A A C C A G - - - - - G T C A T C A C C A A C A A A G A C A C C A - - A G A A A A **C C T T A A G** A G
 Atsp C T T A A C - - C A C C C C A A G T G - - - - - C C T A C T C C A - - C C A A G G T G C C C G A C A A **T C T T G A C** A G
 Leoc C C T A A C C G C C C C A A - G T A C T T A - - - - - C T T C A C C A A G G C - - A C T C - G A T A A **T C T T G A C** A G
 Amca A A A C C A A C - - - - - T A C A G T G T T A C C A C C A A - - - A G A C A T A A A G T T A G **C C T T A A A** A G
 Osbi C T A A - - - - C C A A A C T T - - - - - A C C C T A A A A A G A A A A C G A - G T A G **C T A T A A A** A G
 Pabu A A A T C A A A A - - - - - A C A A A G A A T T A A - A G A G C C T **A C G T A A G** A G
 Hial - T A G A T C A A A T G A T A A G A T A T T T A C C A A A T A A G A A C - - - - C A A A G - - A T A A **C C A T G A C** A G
 Elha T A A A T C A A A A A G T T A A T T C T A C C A A A G A A T T - - - - - A G A G A C A G **T C C T G G C** A G
 Mlcy T T A A A T C A A A C A C C A - - - - - C A C C A A A G A C T A A A A G - - - - - A C A G **C C C G G A C** A G
 Algl T T G G T C A A T G G G T G G G T C G C C T A T T A A G G - - A T G A - - - - - G A G T C A G **A G A T A A G** A G
 Ptgi A G A T C A G G A A A C C A C C A C T G A T - - - - - A A A G A A C - - C - - - - - A G A G T A A T **A T G T A A G** A G
 Alaf - - - T T A A A T C A - - - - - A A A A T A C C C A A A A A - - - - - G A A T A A A A G T T A C **C C G T A G C** A G
 Nock T T A A A T C A A G T T T - - - T A C T T A A C A A G A A T A A A - - - - - A G T T A C **C C G T A G C** A G
 Anja A A C C A A A A C T T - - - - - A T T A A C A A A A A G A C A A A A G C A A T **A C A T A A G** A G
 Gyki - - - - C T A A C C C - - T A T A T A A A A A G A G G A A A - - - - - G C A A G **A C A C A G C** A G
 Syka T A A A A C C C A A A A C C - - - - - C - - - - - A A A C A A T A A G G - G C C C A A G T A A T **A C A T A A G** A G
 Opma C T T A A A C C - - - - - A A T A C A C A C A C A A C A A G G A A C - - - - - A A A G T G A T **A T G A G G C** A G
 Comy - - - C T - - - - - C A A - - A A A T C A A A A T A A A A G - - - A A T - A A - - - A G T A A C **A C A T A A G** A G
 Sasp A C T A - C A C A C C C - T A A A A - A G A - - - - - C A A - - - - - A A G C A A T **A T A T A T C** A G
 Eupe - C T A T A A T T A C A T C A T A T A C A C - - A T A A A A T A A T - - - - - A G A G A A **A C T T A A G** A G
 Enja - C G A C T C A C A C C A G T T T T A C G A A A - - - A A A G A C A A A - - - - - G A G C T C A C **T C C C A G C** A G
 Same C A C C C A C A - A C A G T T - - T T A C - - - - - T T A - A A C A A G G C - A T G A - G G A C A C **C C C C G G C** A G
 Chch C A G T C A C C G A T G T G C C - - A - - - - - C T A C T A C T A G A C A C C C A A G A G A G A C **C G A T A A G** A G
 Grgr T A G G C C A C C T T A A G G T C A C T C A C A T G C A C C T G C - C A C A G G C C T C A A G A A A G **A T G C G G C** A G
 Caau - - - C A A A T - - - - - C A A G T A A C A T T A A C A A G A C A A C A A G A - - - G A A A T **A C A C G A C** A G
 Cyca T C A C A C A A A C A A A T A A - - - - - G A C T - - - - - A - A G A G A A A C **A C A T G A C** A G
 Dare - A A A T T A A A A A A T T A A A T T T A A T T T A A C A C A A A A T T A A G A G - - - - - A A A A **A T A C G A A** A G
 Cost T C A T A - - C A A G T A A T A T C T A A C T T A G A A - - - A A - T A - - - - - A G - - - - - A A A A **G C A T G A C** A G
 Leec T A A T C A A T T A A G A - - - A A C A T C T A A A T T A A G T A A A - - - - - A A G - - - - - C A A A **A T A T G A C** A G
 Cr la G A - - - - G T T A A A T A A G A A A C A C T C T A A C A T A A C A C A A A A - - A G - - - - - A G A A **A C C C G A C** A G
 Clmc A G C T C A C A C A A G C A C - - - C A G C A C G C C A T G A G A C C - - - - - G A - - - - - G A A A C **A C A C G A C** A G
 Phin C A C C T C - - C T A - - - - - G A C A A C T A T G A A - - A C A G A G A A A A **A C A C G A C** A G
 lcpu A T - - - - C T C A C A A A T A C T T T T A T - - - - - A T T A A C G A G C C C G A G - - - - - A A A C **C T A C G A A** A G
 Psto A C T C A A A A A - - - - - T A A A T - - T T A A A T A C A C G A G A T A A A G - - - - - A A A T **A T G T G A C** A G
 Cora C A A G C C A A T A T T C A A C A G T A T T A T G A C A A - - - - - C G A G C A A G **A T A T G A C** A G
 Eisp T C A C A C C A C A T C T T T A T G T C - - - C C A C G A - G - C C C G A - - - - - G A A A C **A C A T G A C** A G
 Apal C C G C C C A A A - - - - - C A T C A C C C A C A A C - - - A C G A A C C A G A G A A A C **T T A C G A C** A G
 Es lu A A - - - - T A C C C T T A A - G G T A A A A C T A - - A T T T T G T T T A C - - A A - - - - - G A G C **C C A A A G A** A G
 Dape T C C T C C - - - - C C A A A A G T A A C - - - - - A C T A A A T T T G - T T T A C - A - A G A G A **C C A A A G A** A G
 Glse C C A A C C T T T T A A G - - - - - T T T A T C T T - - - A C T C C G G C C C T G A G G A A A **C C A C T G C** A G
 Naar - C A A G C C C C G A - - - - - A A G T T T T T C T A A C G - - - - - C C G G C C - - - - - C G G T G A C A **C C A C A G G** A G
 Baoc - C T A A G C C C C G A A A G T T T A T C T T A C C C C G G C C T C - - - - - A G T G A A A **C C A C A G G** A G
 Opso C C C T T A A A G T A C T - - - - - A C T A A G - - - - - A C C G G C C - C T G - - - - - A A G A A A **C C A C T G C** A G
 Al te C A G G T C A C - - - - - A A C A G T A A C A C G A A T A C T A G A C - C A C G A G A A A A **G A A A G G C** A G
 Plap T C A C A A A A G T A A C A C A A A T A - - - - - C T A G A - - - - - C C A C - - - - - G A G A G A A **G A A A G G C** A G

Plal ATCCCTAAGATCCTT----CTT-----CTAG-----TGATTAAGAGAAA**CCG****GGG**AG
 Sami ---TCAAG---CCCATGAGAACCTTCTTCTTAA---GGCGAA--GAGAAA**CCG****GGG**AG
 Rere -TCAAGTCATTAAGACCCTACTTTTGTGATTCC-----GAGAAG**CTG****AGG**AG
 Gama CCTCCCAAGTGAAACCTGCTTT----GGTG-CC-----G---GAGAG**TTG****AAG**AG
 Onmy CTTAG---GACCTTAAGGTA-----AAACTAATATT-GTCCC-AAAGAAA**CCA****GG**AG
 Sasa TAGGAC-CTCAAGGTA-----AAACTAACCTTGCCCAAAGAAA**CCA****AG**AG
 Cola CTTAGGACCCTAAGGTAATAACTAACCTCGTCC-----CATAGAAA**CCA****AGG**AG
 Dita AAACCCCC-----CCGGCGCA---CGACA-CCTGGGCTGCAGAAG**TTA****CA**AG
 Gogr TT----AGCCCTAAGTTCTTCT-----AATGC---TAACTTAAAGGAA**CCA****GA**AG
 Chsl CCTCCCCCATGACCCCACTAAC---TTCG-GCC-----CCAGAAT**ACG****AG**AG
 Atja TCCCCCGC-----CACTAGTATAA---CGAACAGTTGGCCCCAGGAAA**CTA****GA**AG
 lido CCTCCCCCACCCTCGTA-ACACAACAA-----T---TGGCCCCAGGAAA**CTA****GA**AG
 Auja CCTCCCAA-----TTCACCC---CCTATATTGGT---CACAGGAAA**CTA****AAG**AG
 Chag CCGCCCCG-ACTGCTCCAAGC-----AC--GCTCGGCCCG-GGATCAA**GGC****AGG**CG
 Hami -CCGAGCC-----CCCACTACGACTT-AAGGAAT**CTT****AGG**AG
 Saun AACCC-----CTCCCT-----CAGGCC-----CAGGGAAG**CTC****AAG**AG
 Nema AGTCCCGTAAATACTATTTAAC---CCA-----GACCACAGGATCAG**TCG****AG**AG
 Disp CATCCAAGA-----CATTTATGTCCCCCTGGACC--AACTG---CGTA**CCG****GA**AG
 Myaf -TTACATCAACGGCGCCACGCCACCATAGATT-----GACGGCAG**TCA****AG**AG
 Lagu CG----CTAAACTAGGCCAC--ACCCCC-CTAGTGCC----AG----GTAA**CCA****AGG**AG
 Trtr ACTAGCCCCCATAATGTATGTT-----AAACCTTTGGCTAGGG-TGTTAAG**TCT****G**AG
 Zucr -CCCTAGCCCC-TATAATAGACG-TAAAATCATTGGCTAT-GGT--ATTA**AGC****TGG**AG
 Pxja --TAACCCAAACCA-GAATTAC-----CCAGACCTGGGCTC---AAGAAA**CTA****AAG**AG
 Pxlo CCAAACCAGACTT---ACCCAG-----ACCTGGG-----CTCAAGAAA**CTA****AA**AG
 Pctr ACCCCAAGCGGG-----ATAACCCC-GCCAG-GCCCCGGAGGAG**CCA****AGG**AG
 Apsa ---TTA--ACCCCTAGACGATAATCCCCAA-CAG-GCAA-T---GAAAGAC**TTA****AA**AG
 Cabe ----AGTCCAAC-----AA-----ATACACAAGGGCCCC--CACAGGC**CCG****GG**AG
 Bzze ----CCTTCCAAGCGTT--AA-----CTCAGCTTGACCA---AAAGAAG**ACA****TCC**AG
 Siim ----CACTCCA----AATTAAC-----ATAAGCTAGGACAAAA-AGAACCG**CCG****CA**AG
 Ctru CCCCTCAA-----ACCGACCAACTGTGTC-CGACA--CTAAGAAA**CTC****GG**AG
 Dpbr CCCTCGAACCACCCT-----TACTGACCCCGACACTAAGAACG**CCG****CG**AG
 Caki CCGC-----CCACAAAACACCACGGTA-----AAGGAAA**ATT****AAG**AG
 Phja TC----ATCCCATAGTTATTACACAA-TT-----TGATAAAGGAAA**TTA****AAG**AG
 Brsp AATTCAAACTTCAATTTACCTTGT--AATTTTCAGAAAAGACTTAAGGAAG**TAT****CA**AG
 Gamo CCCCCTCACCCAT--GCTTA--CGCTAAAATT-----GATTAAGGAAA**CTA****AAG**CG
 Lolo CCCC--TCACCCATGCTTACGCTAAAATTGAT-T-----AAGGAAA**CTA****AG**AG
 Batr -----AGAAAACCC-----CAAATAG--GC-----CCCCCTGT**AAC****AAA**AG
 Prmy AATTCTACTAA-----TAGAACCT-----AAAGAA**CTA****CTG**AG
 Loli CACCCA---TT-----TTGATACTCAAGGCCCAAAGATA**CTA****CGT**AG
 Loam CTCCAACCCTTAAATTA-----AGGTGA-----AAAGAAG**TCA****GA**AG
 Chab GATCACATTTCTTTT-TTCTATCTGATCTCGGTTGTC-----AACAAAA**CCT****G**AG
 Chto GA----TCACATT---TCTTTTTTCTATCTGATCTCCGTTGTCAACAAAA**CCT****G**AG
 Majo TCTCAACTC-----TGAGTTCTTTTACCGACAGTTAAGA---ATA**CCG****TAG**AG
 Hlst -----CATACAAAACCCCTAG---ACCCAGGACT-----AGAGAAA**CTA****CA**AG
 Clpe TCTTTTCGACC-----TTCACATGACCCCATTTGATCAAGAAGACC**ACG****GG**AG
 Mlmr -TCCACCACACTTTCAAATGACCCCTTCTGG--CCAAGAA-----GAAG**CCG****AG**AG
 Crcr ACCCCCCTCGATTTTAT--CCCCTATAACAGACAGTAGAATATCAAGAAAA**TTA****AG**AG
 Muce CCCCTCGATTTTATCCCCTAAT---AACAGACAGCAGAATATCAAGAAAA**TTA****AG**AG
 Bege AAGCC---CAAAGTGGCTACCCTCAGCTAAGACTA-----AAA---GAAA**TCT****AG**AG
 Mela CCCTCACCTTGATATC-----TTTCTAAGTGAGACACCAAGAAA**TTA****AG**AG
 Hats ---TCTTCCTTAATAGTTGTT-----CTTAAT--TAAGACACAA-AGAAA**TCT****AG**AG
 Orla -TAAATTTAAGTCTAGCATTACTTAATACAAATGA-----CTAGGAA**TCA****AA**AG

Cosa ---TTATCT--CCCAACTGGCTCACCTAAAAGCT-AAATATC--AAGAAGTTAATAGAG
Exsp GCCCCTAT-----TATGGAAACACCTTA-ATCC-AGAGAAAAAGAAGAGAAGAGAG
Depa CCAACCATAATCATT----TAT-----TTA-GGCACCTAAAAACAATAGAG
Rima TA----ATCAAAAC-TAATTTAATTTAACTAGAC-----ACAAGAAATATAAAGAG
Fuol CACCAAAG-----TGGACACCCTAATTT----TAGGT-TCTGAGAAGACACTGAGAG
Gmaf TA----CCCCAACGGCCTA--ACCAACAGCCCCGGCC-----AAAGATTATTAAAGAG
Xeei CCCCCAAC-----CTCTTGGTCTCCTTAGACCAGGTCCAGAGAAGCTATAAGAGAG
Pros GC----CCAACCCAGTCTTCACTCAAGCTGGATTGAGTCTT----CAAGCCAGGGGTG
Scmi CCCCCGCCAGTCTT---CACTAAAAGTGGACTAC-----AAGGCAAGCTAAGGGTG
Rolo ATCCCACCC-----TAGCCTCACTCAACCTGGATG----CC-GGTTAAAACCGAGGGAG
Cere ----ACACCAACCCTATCTTAG-----TTCTATTGCGGGCTAC--AGTAAATTAAGGGAG
Daga -TAGCCA----CCCCGGCAT--ACTAAGCCCGG-----CTTTAATAAGTTAGAGGAG
Anco AAC----CAAACCAG-----TCTCACCCG-----ACTTGGCCCCAGGAAGCCAGAGAG
Dmve ACCCCAAGCAAGT-----CTCACCACATTGGCCCTAGGAAGCCAGAGAGAG
Dmar CACCCCAAGCAAGTCTCA-CCCACATTGGCCCT-----AGGAAGCCAGAGAGAG
Anka CCCCCAATCAGTTTT----ACTAACTTGGCT--C-----AAGGAAACTTCGAGAG
Moja CACCCCAAAGTACTGTC-----TTACAAGCCTTGGCC--CAGGAAAACCGAAGAG
Hoja AATCCAAACTAGTCT-----CACCAAATTTGGC-CCCAGGAAGCCAGAGAGAG
Bede CC----CAACCCAGTCTTTACTTAAGCTGGAC-----ATCAGGCCTAGCCAGGGAG
Besp ---CCCAAC--CCAACCCAGTCTTTACTTAAGCTGGATATTTAGGCTTAGCCAGGGAG
Mysp AACTCAA-----ACAACCCCTA--CCATTAAC-GAAAACAGGAAACTCAGAGAGAG
Osja CTCAAGCAACACTAATTTACCATGA-----GTAT--AGGAAAACCGAGAGAG
Sgro AATCAAACCGAATC-----ATCTATGCACG--TACC-----CG-GAAAACTACAAGAG
Pzpa AATCCAC---CTAGTACCAC-----TAATATTG--GCTACA--GGAATAACAGATGAG
Zeja TACCCAC-----CTTAGTA--CTACTAAATTACGGCTACAGGAAAACAGAGGAG
Znne AACCCCCCTTAGTATA--AC-TAATATTG--GCC-----CAGGAAACTACAGAGAG
Zefa ----CCAAC--CCCCCTTAGTACCAC--T-AAAATTGGCC--CCAGGAAAACAGAGAG
Acni GCCCCACCTTAGTAC---TACTAAAATTG-GG--TACA-----GAAAACAGAGGAG
Ncrh CCCCACCT-----TAGTACTACTAAAATTG-GA----CACAGGAAAACAGAGGAG
Agca ----TACTCATA----TACGTGCAACTCCTTTATGACATGTTAAGTAAACCGAGAGAG
Hydy TTTTCACCCCGGCCCT--AACACCAATTGATGATAT-----AAGAAAACCGAAGAG
Gsac CTTTTAC-----ATTAGTCTAACACCTATTGATGTATTTAAGAAAACATGAGAG
Pevo AA----CCGACCAAG-CATC--GCCTGAATTGCTTAC-TA-AG----ATAGCCGTGGGAG
Hiku TAATTCACCTAAAATT--T-----AAATGAATA-GATTGAGCTAAATGATAATAATAGAG
Inpa TTTCCCGCCTCTTTTCCC-----TTTTACAAATTGGCCA-CAAGAAGTTAAGAGAG
Auch CCACCCCTACTTTAGTCTCCACTCATAG-----GAATCTAACGAATAACCGAAGAG
Fico ---CCTCG--TC-CCACAGT-TTCACTTCTT--TAGTCA---CAGGGCAAATATCCGAG
Macs CCACTC----ACCTCAGTACT-----ACTTAGTCTGACAC-T-ACAGAACCTTTGAGAG
Moal ----CTAC-----ACACTATCACACCCAGACAGTTACTAAAGAACAACCGAGAGCG
Syma CATAACAACA-----CCACC-TTAGTTAACAAAGAAGTTGAGAGAGAG
Maf r TATTC---CCCG-----AC--ACCCA-ACGA-TAAC--AAGAAAACAGAGAGAG
Dcpe GT----CTCACTTCACTT---ACTCATATTGACACAAG--AA----GAAAATATGGGAG
Dct i GTCTCACCC-----CAGTTAACTCCGATCGACAC-AA----GGAGGGGCTATGGGAG
Hehi TCAAATCAGTATTACCCACCT---GA-----TA-ACA---CAAGAAGCTGTGAGAG
Stam TTTTCACTACGGAATAACCC-----CTCCCTGAT-AACCCTTTAAGAAAACCGGAGAG
Hogi TCTTCATCTTCGTTT---ACCCTAACTGATATCAA-----AGGAACTGAGGGAG
Erzo TCACTTCACCTTAGTTTTACCCCTATCGATGCA-----TAAAGAAAACATTAAGAG
Hxot TCTTTTCACCTTAGTCTGACCCCTATTGATGCAT-----TAAAGAAAACCGAAGAG
Core TG----TTCACACTAGTCTAACCCCTAAATTGATGCG--TAAA----GAAAACCAACAGAG
Apve TTTTCACTTGGCCT-----AACCTCTACAGATGCATTAAGAAAACAGAAGAG
Lat j CATTCATACATTATTCTAAAT-----GATTACCCCTAGATGA-AAAGAAAACCGGAGAG
Laja ATTCAAAGCCTATTAACCGCCAAACAAAACGATAGATGCAAGA---GAAAACCGAGAGAG

Syja CCTTCTCC-----CCCTCCCCTCAGATACC-----A----AAGAAA**CCATGAG**AG
 Epme CCTTCTC---TAATTCCTTAC-----TTTTAACAG-ATACTG-TGAGAAA**CCGGGAG**AG
 Grse CACTCCACCCCTGGTT-----CCACCGCCAATGATCCAAAGAAA**CCGCAGAG**AG
 Clja -----ACCGCACACCTCCA-ACCATA-CC---GCCATCTAAA----GAAA**CCAGGAG**AG
 Ogcy CA----ATCACAGCCTAACTTATTCAAGTCTACTCCCCGAATAAAAGATT**CAGAAG**AG
 Plna TATTC--C-----CCCCAATATTTTATACAATAAGATAATTAAGAAG**CTAAAG**AG
 Lema -TTACCTCACTCTCGTCTAACACCCAACATTGACCCGAAA-----GAAA**CCGCAGAG**AG
 Etzo TA----TTCACCTCAGTATTACC-----CCTTCTGATACCTAA----GAAG**CGAAGAG**AG
 Apse TC----CACACATGCCGGTTACACCG--AAAGCATTTA--AG----CAG**TCAAAG**AG
 Epde TCTTCACCCCCCCCCCATATCT----TGGTCTTACCGATATTTAGAGAAA**CCGTGAG**AG
 Slja TCCTCAACACCCGGAG--GCACTGCCTACATCATAAGGATAATTTAGAAA**CCATGAG**AG
 Bsja ---TCCTC--TCACCCCAAATACTT-----CAGACACCA-A--AGAAA**CCGAGAG**CG
 Ecna TTCTTCAT-ATATTTACTTCC-----TTA-AA---TGAT--CACAAGAAA**TTATAG**AG
 Cohi CTCTTCACCTATTGTA-----CACACAAA--ACAATGATTTAG-AGAAA**CTGTGAG**AG
 Caar CTTTCATACTAATAC-----T---AAATACCGAACGATAAAAAGAAA**CTGTAG**AG
 Came CCTTCAT---ACAATAATAA-----CAACCCAAT-GATTAA--AAGAAA**CCGTGAG**AG
 Mema ----CTTCCCAACCCGTTCCAA-----CACACCCCTGGCACTTTAGAGAAA**CCGTAG**AG
 Lenu CATTCAAACCATACA-----CATCAAGAACC-----CAAGAAA**CCAGGGG**AG
 Brja TCCTCCCCCGGA-----CCTTACCAAC-ACCGACACCTAAAGAAA**CCAAGAG**AG
 Plma TCTTCACT--ACGGTCTTT-----CACCCCTACCGACACACAAAGAAG**CCTAGAG**AG
 Emst TCTTCACCCCTCCGTCTAAACCCCATTTTGACACCT-----AAAGAAA**CCGAGAG**AG
 Ptti TTTCTCC-----CCCTCCGTCTTACCCCTTT--T-GACACAAAGAAA**CCGAGAG**AG
 Losu TACTCACTAAGCATCTTACAATTCACGTACTATGAAGCGGACAACAAGAAA**CCCATAG**AG
 Geoy TCCCCTACCTATTTCTTCTCAATCCCA-----CGATATTAAGAAA**CCCTGAG**AG
 Dipi TCACCCCTTGTCAT----CCC-----ACA-----TGACCCCTGAGAAA**CCAAGAG**AG
 Pama --TACTTCAAATTTTCGTATAAA----CCTTAATTAGATTTCT-AAAGAAA**CCGAGAG**AG
 Leob ---TCCCC--TCACTTTAGTATTTACTCCTTA-CAGA-CAACC-AAAGAAA**CCTTGAG**AG
 Neba TGCTCTAACCAGCAGCATAATTTATTGAAACCTTTAAGAGATAAAAAGAAA**TCTGTAG**AG
 Pdpi CA----CTCGAAACAACCTCAAATTTGTATAGACATACTTCAA----GAAA**CTTTAG**AG
 Nimi CCCTCAACCCCGTCTT-----CACCCCG-GACAACCAAAGAAA**TCGAAAG**AG
 Uptr TC----TCAACTCTG-TAGT--ACTTTTACCGACAGCCTA-AG----AAAA**CCGTAG**AG
 Pesc -CCGCTCATCC--CCCAGCCATTATCCCGATTA-----AGAGAAA**CCAGGGG**AG
 Baar AACACTATCGTTAAAG----CCCCCTTCTGACACCCCCCCCCCCAGAAA**CCGTGAG**AG
 Moar TCACTTTT---CGTTTTCAACCCCT-----TTTTGATACTT---AAGAAA**CTGAGAG**AG
 Toja ACTCATCTCCGTTATACGCTATCCCCTCCCGACACT--CA----GAGAAG**CCGTGAG**AG
 Chau TACTCTGCCCCCTTCCCCCCCCCTTTTTTACCCGGACGCCA-AGAGAAA**CCAATAG**AG
 Chse CACTCACACCTTATC---TTCTAACCCATTAGACACTTT-----AAAGAAA**CCGAGAG**AG
 Enar TACTCGTTTCTGTCTTAACCCTTTTCTGACACTAT-----AAGAAG**CCGAGAG**AG
 Hpty -TTCTTCACCT--TGTCTCAACCCTCCCATTGACACCT-----AAAGAAA**CCGCAGAG**AG
 Nana CTCATATCGG-TAT--CACCACCC-----CAGA--CTTT-----AAGAAA**CCAAGAA**AG
 Mcst ATTTCAACTCCGCTGG---CCCGTCCCGACACCT-----AGAGAAA**CTAGAG**AG
 Rhox CCGTTAATCTGTTGACTCACCCCTCCTTCCCCCTGAA-CGCCAAAAGAAA**CCAAGAG**AG
 Opfa -CTAGTCACCTTCGTCCAACCC-----ACTCAGACACC-TA-A-AGAAAAC**CCGCAGAG**AG
 Paar TCACACTTGTTCT--TACTTAA----ACAGATA-----TAAGAGAAA**CCGAAG**AG
 Gozo TCCTCACCCCTTCGTCTTTA-----CCCCTACTGACGCC- AAAGAAA**CCGCAGAG**AG
 Ackr -----ACC----CTTCCCCTAACCTTCCCCGGATTATA----GAAG**ACATGGG**AG
 Elev GTCATAGTAGATATTA-----GACCCCAA-----GAAA**CCAAGAG**AG
 Trdu CA----TTCCATTGGCCTAAGGCCTTACACCCGAACAA--AA----GAAG**TTAAGG**AG
 Amoc CCCCTC---AACTGTCTTTTA-----AGGCGTTAGATTAAG-AAAGAAG**TTAAGAG**AG
 Hame ---TACCC--TCAACTAGGAACACC--TCAAACCCGC-CAATTA-TAGAAG**CTAAAG**AG
 Chso ATTC-----ATAA-----CCAAACAGATAATAA-----GATAC**TAAAGAG**AG
 Lyto TCACCCCTAGGTTAACCCCTATC----GATGTACT-----TAAGAAA**CCGGGG**AG

Encr TCTTTTCA-----CTTTAGTCTAACCC-CTATTGATGTGCTTAAGAAA**CCGAGAG**AG
 Bvar CCCTTCATTCATAGGGGCAGACCCCTACCACCCCTGATAGCCTTAAGAAA**CCATTAAG**AG
 Noco CGTTCACCTCAGTGTAC-ACACATTCTGATGTTT-----CAAGAAA**CCGTGAG**AG
 Chsp AC----ATCCCATAAACAATACTTTAAAAATAAAAGAGTTAAA----GAAT**AAGAGAG**AG
 Arja TTTTCACC-----TTAGTCTGACCCCTATTGAT-GCATTAAAGAAA**CTAAGAG**AG
 Pase ----TTTTTGAA----TACCCC-----ATAAATTAACATAA--AAAGAAA**CTAAAGG**AG
 Trel CCGTCCCTTTTTCGATT--G-----TGTCGACCCA---TGACCAAGAGAAC**CTGACAG**AG
 Lifa ---TTAAC---TCCCACCCTCTTATTAAGGGCTGAAGACG-ACAGAGAATA**CCATTAG**AG
 Acur TGTTTCTATAATCAACACTAC-----GATAACATAGATTTTT-TAAGAAA**ACAGGAG**AG
 Ampe -TTCCTGACCCC-TGTCCTAACCCCTA-----GAGACACCCAAAGAAA**CCGAGAG**AG
 Urja CATTGACTCAATCCC---TAC--AACCAT--GACA-----AGAAA**TTAAGAG**AG
 Enet CGATACCC-----CCTTGGTATATCCTTACAACGTCTAAGGAGAAG**TAAAGG**AG
 Ptbr -TAAACACCTAATAATTTTC-----ATCCG-----TTAAGAGAAG**TCTAAG**AG
 Safa CA-----ATCACGCG-----CATCGTCGATA---AAAGAGCC**GTTAAGG**AG
 Icae -CTCTTCA----CCACGGTCTTACCCATACCGA-----CACCTAAAGAAG**CTTAGAG**AG
 Asmi -TTAAAACCCCTAAGGCCCTGTCTTTAAAGTAGTA-----AAGAAA**CTTAAGG**AG
 Foal T-CCC-TTTTA-CCCCTTTTACACTAATT--ACAACAGGCATAGAAGAAG**TAA TAG**AG
 Drze -TAATTTATAAACATAA--TAAACACCATAATA--T--TA---AGATA**TTATTAG**AG
 Rhas TA---GCCAAACAAGGCGACGCCCTA---CCCAGACCACGAGAA-TTAA**TCAAAG**AG
 Elac CAACC---CGACCTGATTACATCTCCCC---CGGTCCA-----AAGAAAG**CTAAAG**AG
 Kugu TTCTCCCCGATGGTT--ACTCCCACCC---TGACAAA-----AAGTAA**CCAAGAG**AG
 Plor -TT--CATCTCCTGGCCCCTACGCCCCCTCT-----ACACCAAAGAACCA**CCGAGAG**AG
 Sgun TCACCCCTGTCTTACTCCGTTT-----TGACACCC---TAAGAAA**CCGCGAG**AG
 Zaco TCTTCCCC-----TCACGTCTAGACCCA---CTTC-GACACTTTAAGAAA**CCGACAG**AG
 Zbfl ACTCCTCC-----TATTCTAATCCCTTAGAAAC--CTAAA---GAAA**CCAAGAG**AG
 Spba TCACACTTGCACCAATGCTTTA-----ATAG-----ATAACTAGAGAAA**CCGT TAG**AG
 Game CTCTTC---CTCCCGGTCTT-----ACCCCTACCGATCCAC-AGAGAAA**CTTAGAG**AG
 Thth ATTACCCGCGGTCTTACCCC---TACCGATG-CAC-----TAAAGAAG**CCTAGAG**AG
 Xigl CATTACCTCCGTTTCAACT-----TCCTCCGATAATCCGAGAAA**CTGCGAG**AG
 Hyja CCCTTCAACCCCGGTA-----CTTCTCCACTACCGATATCTAAAAGAAG**CCTAGAG**AG
 Psan CCTTCCACCCCGGTACCCACCCACTACCGATACCT-----AAAGAAG**CCTACAG**AG
 Cupa C-----TTCACCAAGGTCTC--ACCCCTACCGACACCT----A--AAGAAG**CCGAGAG**AG
 Mpch CTTTCAACTTTATTT--ATT-TAAACTGAT--TCA-----AAAGAA**CCAAAGA**AG
 Char TCATTCA--CACAACT-----CCTAATGCCCCCGTTACCCG--AGAAG**ACAGGGG**AG
 Pser -CATTAC-----CCCACCCCAA-----CAGATAC-TAAAGAACA**CCGCGAG**AG
 Prol -CCACTCATGCACTG---TTATTACCCATCAGATG--CA---ACGAGAAA**CTAGAGG**TG
 Plbi CA-----CTCATG--CACTTTGTTTAACCCCTTCAGAC--GCAGCGAGAAA**CCAGGGG**TG
 Calu ACCTCATGGGC-----CACAGTGTCTTATGATAAAAAGAAG**GGG GAG**AG
 Papa AAGCCACC-TCGTGCCTA-TTATTATAGGAAA-----AAGAAA**CTAAGAG**AG
 Suf r TTTT---CAAATTCGTACCACTTAACCCGACCAA-----GAGAGCC**CTAAGGG**AG
 Stci CTCAAATCAAAGCCA-TCAAGCCCATTAA-----AAGAAT**ATTAGG**AG
 Taru AACTCCATAACTATT-----TATATTAACCCG-----ACTTTAAGAAA**CCAAAG**AG
 Rala TCTTACCCCTTGTTT-----T----CATCCCACCCGATGCCCGAGAAA**CCAAGAA**AG

*

	18	18'	19	19'	20								
Scca	TTAT	TTAGAAGAG	GAACA-G	CCCTTCTAA	ATT-AG	ATACAA	CT	TTTT	---	AGG	TGC	TT	
Muma	TTAT	TTAGAAGAG	GTACA-G	CCCTTCTAA	ACT-AG	ATACAT	CT	TTTA	---	AGAT	TCC	GA	
Erca	TTAT	TCATAAGAG	GTACA-G	CTCTTATGA	ACA-G	AAACAA	CC	CCCA	---	AGGA	AGC	AA	
Pose	TTAT	TCACAGGAG	GTACA-G	CTCCTGTGA	ACT-G	AAACAA	CC	CAAT	---	AGG	AGC	AA	
Actr	TTAT	TCAAGAGAG	GTACA-G	CTCCCTTGA	AAA-AG	ACACAA	CC	TTAA	---	CAGG	CGC	AT	
Scal	TTAT	TCAAGAGAG	GTACA-G	CTCCCTTGA	AAA-AG	ACACAA	CC	TTAA	---	CAGG	TGC	AT	
Posp	TTAT	TCAAGAGAG	GTACA-G	CTCCCTTGA	AAA-AG	ACACAA	CC	TTAA	---	CAGG	CGC	AT	
Atsp	TTAC	TCAAAGGAG	GTACA-G	CTCCTTTGA	GAA-AG	ATACAA	CC	TTAA	---	CGGA	TGC	AT	
Leoc	TTAC	TCAAAGGAG	GTACA-G	CTCCTCTGA	GAA-AG	ACACAA	CC	TTAA	---	TAGAT	TGC	AT	
Amca	TTAT	TCAAAGGAG	GTACA-G	CTCCCTTGA	AAA-AG	ACACAA	CC	TTAA	---	ATG	TGC	AT	
Osbi	TTAG	TCAATGGAG	GTACA-G	CTCCCTTGA	AAA-AG	ACACAA	CC	TTTA	---	CAGA	AGC	GT	
Pabu	TTAA	TTGAAGGAG	GTACA-G	CTCCTTCAA	AAA-AG	AAACAA	CC	TTCA	---	CAGAT	TGC	GC	
Hial	TTAG	TCAAAGGAG	GTACA-G	CTCCTTTGA	CAA-AG	ATACAA	CC	TTAA	---	AGAT	TGC	AT	
Elha	TTAG	TCAGAGGAG	GTACA-G	CTCCCCTGA	AAA-AG	ACACAA	CC	TTCA	---	CAGG	AGC	AT	
Mlcy	TTAG	TCAGAGGGG	GTACA-G	CCCCTCTGA	AAA-AG	ACACAA	CC	TTACA	--	CAGG	AGC	AT	
Algl	TTAG	TCAAAGGAG	GTACA-G	CTCTTTTGA	AAA-AG	ATACAA	TC	TTCT	---	CAGG	TGC	AT	
Ptgi	TTAG	TCAGAGGAG	GTACA-G	CTCCCCTGA	AAA-AG	ACACAA	CC	TTAA	---	CAGG	AGC	AT	
Alaf	TTAG	TCAAAGGAG	GTACA-G	CTCCTTTGA	AAA-AG	ACACAA	CC	TTTC	---	CAGG	AGC	AT	
Nock	TTAG	TCAAAGGAG	GTACA-G	CTCCTTTGA	AAA-AG	ACACAA	CC	TTAA	---	CAGG	AGC	AT	
Anja	TTAG	TCAAAGGGG	GTACA-G	CCCCTTTGA	AAC-AG	ACACAA	CC	TTATT	--	CAGG	AGC	AC	
Gyki	TTAG	CCAAAAGGG	GTACA-G	CCCTTTTGC	AAA-AG	ACACAA	CC	TTATTT	-	AGG	AGC	GA	
Syka	TTAG	TCAAAGGGG	GTACA-G	CCCCTTTGA	AAC-AG	ACACAA	CC	TTTT	--	AC	AGG	AGC	G-
Opma	TTAG	TCAAAGGGG	GTACA-G	CTCCTTTGA	AAC-AG	ACACAA	CC	TTAT	---	CAGG	CGC	AC	
Comy	TTAG	TCGAAGGGG	GTACA-G	CTCCTTCGA	AAA-AG	ACACAA	CC	TTAC	--	CC	AGG	TAA	A-
Sasp	TCAG	TCAGTGGGG	GTACA-G	CCCCCCCCG	ACTA-AG	ACACAA	CC	TTACA	--	T	TGAT	TGC	CC
Eupe	TTAG	TCAAAGGGG	GTACA-G	CCCCCTTGA	AAA-AG	ATACAA	CC	TTTA	---	TAGG	AGC	AC	
Enja	TTAA	TCAGAGGAG	GTACA-G	CTCCCCTGA	TAC-AG	ATACAA	CC	TTTT	---	TAGG	AGA	CA	
Same	TTAG	TCAAAGGAG	GTACA-G	CTCCCTTAA	CAA-AG	ACACAA	CC	TTAGA	--	CAGG	AGC	CT	
Chch	TTAT	TCAGAAGGG	GTACA-G	CTCTTCTGA	ACC-AG	ACACAA	CC	TTAC	--	AC	AGG	AGC	T-
Grgr	TTAG	TCAGAGGAG	GTACA-G	CTCTTCTGA	AGC-AG	ACACAA	CC	T-TT	--	AT	AGG	AGC	CT
Caau	TTAG	TTAAAGGGG	GTACA-G	CCCCTTTGA	CAA-AG	ATACAA	CC	TTTC	---	TAGG	AGC	AT	
Cyca	TTAG	TTAAAGGGG	GTACA-G	CCCCTTTAA	CAA-AG	ACACAA	CC	TTTC	---	CAGG	AGC	AT	
Dare	TTAG	TTAAAGAGG	GTACA-G	CCCCTTTAA	CAA-AG	ATACAA	CC	TTTT	---	CAGG	AGA	AT	
Cost	TTAG	TTAAAGGGG	GTACA-G	CCCCTTTAA	TTA-AG	ATACAA	CT	TTAT	---	CAGG	CGC	AT	
Leec	TTAG	TTGAAGGGG	GTACA-G	CCCCTTTAA	CCA-AG	ACACAA	CC	TTAAA	--	CAGG	AGC	AT	
CrIa	TTAG	TCAAAGGGG	GTACA-G	CCCCTCTGA	TAA-AG	ATACAA	CC	TTAG	--	CC	AGG	AGC	AT
Clmc	TTAG	TCAAAGAGG	GTACA-G	CCCCTTTGA	TCA-AG	ACACAA	CC	TTACT	-	AC	AGG	AGC	TT
Phin	TTAA	TCAAAGAGG	GTACA-A	CTCTTTTGA	CC--AG	ACACAA	CC	TTACA	--	CAGG	AGA	TT	
Icpu	TTAG	TCAAAGGGG	GTACA-G	CCCCTTTGA	AAC-AG	ACACAA	CC	T-CA	--	CC	AGG	AGC	TT
Psto	TTAG	TCAAAGGGG	GTACA-G	CCCCTTTGA	AAC-AG	ACACAG	CC	TCA	---	CC	AGG	AGC	TT
Cora	TTAG	TCAAAGGGG	GTACA-G	CCCCTTTGA	AAA-AG	AAACAA	CC	TACA	---	CAGG	AGC	TT	
Eisp	TTAA	TCAAAGGGG	GTACA-G	CCCCTATGA	AAC-AG	ACACAA	CC	TTAA	---	CAGG	AGC	TT	
Apal	TTAG	TCAAAGGGG	GTACA-G	CCCCTATGA	CAC-AG	ACACAA	CC	TTCT	---	CAGG	TGC	TT	
EsLu	TTAA	TCAAAGAGG	GTACA-G	CTCTTTTGA	ACA-AG	ACACAA	CC	TTA	---	AC	AGG	TGT	TT
Dape	TTAG	TCAAAGGAG	GTACA-G	CTCCTTTGA	ATA-AG	ACACAA	CC	TTGA	---	CAGG	TGC	TT	
Glse	TTAG	TCAAAGAGG	GTACA-G	CTCTTTTGA	ACA-AG	ACACAA	CC	TTAC	---	TAGG	TGC	TT	
Naar	TTAG	TCAAAGAGG	GTACA-G	CTCTTTTGA	ACA-AG	ACACAA	CC	TTAT	---	CAGG	CGC	TT	
Baoc	TTAG	TCAAAGAGG	GTACA-G	CTCTTTTGA	ACA-AG	ACACAA	CC	TTAC	---	CAGG	CGC	TT	
Opso	TTAG	TCAAAGAGG	GTACA-G	CTCTTTTGA	ACA-AG	ACACAA	CC	TTAC	---	CAGG	CGC	TT	
Alte	TTAG	TCAGAGGAG	GTACA-G	CTCCTCTGA	ACC-AG	ACACAA	CC	TTAC	---	CAGG	AGC	CC	
Plap	TTAG	TCAGAGGAG	GTACA-G	CTCCCCTGA	ACC-AG	ACACAA	CC	TTAT	---	CAGG	AGC	CC	

Plal TTAT TCGAAGGAG GTACA-GCTCCTTTCGA ACA-AGC ACACAA CC TT-TG--CAGGCGC TC
 Sami TTAT TCAAGGGAG GTACA-GCTCCTTTCGA ACC-AGC ACACAA CCTTAA---CAGGCGC TC
 Rere TTAG TCGAAAGAG GTACA-GCTCCTTTCGA ACC-AGC ACACAA CCTTAC---CAGGCGC TT
 Gama TAAG TCAAAAGAG GTACA-GCTCTTTTGA TAG-AGC ACACAA CCTTAC---CAGGTGC TT
 Onmy TTAG TCAAAGGAG GTACA-GCTCCTTTCGA ACA-AGC ACACAA CCTTAA---CAGGCGC CT
 Sasa TTAA TCAAAGGAG GTACA-GCTCCTTTCGA ACA-AGC ACACAA CCTTAA---CAGGCGC CT
 Cola TTAG TCAAAGGAG GTACA-GCTCCTTTCGA ACA-AGC ACACAA CCTTAA---CAGGCGC CT
 Dita TTAG TCAAGAGAG GTACA-GCTCTCTTGA AAT-AGC ACACAA CCTTTT---CAGGCGC TT
 Gogr TAAG TCAAGGGAG GTACA-GCTCCTTTCGA ACC-GGC ATACAA CC C-CC--TCAGGCGC TA
 Chsl TTAC TCAAGTGAG GAACA-GCTCCCTTGA CCA-AGC ACACAA CCTTCA---CAGGAGC TT
 Atja TAAA TCAAAGGAG GTACA-GCTCCTTTCGA GTA-AGC ATACAA CT TTAA---AGAAGC TT
 lido TAAA TCAAAGGAG GTACA-GCTCCTTTCGA ATA-AGC ATACAA CT TTAA---AGAAGC TT
 Auja TTAG TTAAGAAG GTTCA-GCTTCTTTTAA AA--AGC ATACAA CT TTTT---TAGGAGC TT
 Chag TTAG TCAAAGAAG GTCCA-GCTTCTTTTGA ACA-AGC ATACAA CT TTTT---TAGGAGC CT
 Hami TTAG TTAAGAAG GTCCA-GCTTCTTTTAA AAC-AGC ACACAA CT TTTT---TAGGAGC CT
 Saun TTAG TTAAGAAG GTCCA-GCTTCTTTTAA ACA-AGC ACACAA CT TT-TT--CAGGAGC CA
 Nema TTAG TCGAAGAGG GTACA-GCCCTTTCGA AAA-AGC ACACAA CCTC-CC--AGGAGC TA
 Disp TTAG TCAAAGAGG GTACA-GCCCTTTCGA AAC-AGC ACACAA CCTCC---CCGGGAGC CT
 Myaf TTAG TCAAAGAGG GAACA-GCCCTTTCGA AAA-AGC ACACAA CCTCCA---CGGAGC TA
 Lagu TTAG TCAAGAAAG GTTCA-GCTTTCTTGA AA--AGC ACACAA CCTTC---CTGGGAGC GT
 Trtr TAAT TCAAGGGAG GTTCA-GCTCCCTTGA AAG-AGC ATACAA CCTTACG--CAGGTGC AT
 Zucr TTAT TCAAGGGAG GTTCA-GCTCTCTTGA AGG-AGC ATACAA CCTTATTAAC GGGAGC AT
 Pxja TTAG CCAACGGAG GTACA-GCTCCTTTTGA AA--AGC ATACAA CT TTAT---TAGGAGC TG
 Pxlo TTAG CCAACGGAG GTACA-GCTCCTTTTGA AA--AGC ATACAA CT TTAT---CAGGAGC TG
 Pctr TTAG TCAAAAGAG GTACA-GCTCTTTTGA AA--AGC ATACAA CT TAAT---CAGGAGC CC
 Apsa TTAG TCAGAAGAG GTACA-GCTCTTCTGAA AA--AGC ATACAA CT TATT---CAGGAGC TT
 Cabe TTAT TCAGAGGGG GTACA-GCTCCTCTGATAACAAG ATACAA CT TTAA---AGGTGAGT
 Bzze TTAG TCAAAGGAG GTACA-GCTCCTTTTGA AA--AGC ATACAA CT TTGC---GAGGAGC GT
 Siim TTAA TCAAAGGAG GTACA-GCTCCTTTTGA AA--AGC ACACAA CT TTAC---TAGGAGC GT
 Ctru TTAT TCGAAGGGG GTACA-GCCCTTTCGA CCC-AGC ACACAA CT TTTA---TAGGAGC CT
 Dpbr TAAT TCGAAGGGG GTACA-GCCCTTTCGA CCC-AGC ATACAA CT TTTT---TGGGCGC CT
 Caki TTAG ACAGAAGGG GTACA-GCTCTTCTGATAA-AGC AAACAA CCTTAG---CAGGTGAC
 Phja TTAT TCAAAAGGG GCACA-GCTCTTTTGA TAA-AGC AAACAA CT TTTA---CAGGTGCC
 Brsp TTAG TCAAAAGAG GTTCA-GCTCGTTTGA CTT-TGC AAACAG CCTC-TT--TAAGTATT
 Gamo TTAA TCAAAAGGG GTACA-GCCCTTTTGA TAG-AGC AAACAA CT TTAA---CAGGTGACC
 Lolo TTAA TCAAAAGGG GTACA-GCCCTTTTGA TAA-AGC AAACAA CT TTAA---CAGGTGCC
 Batr GTCG TCAAAGGGG GTACA-GCCCATTTGA CAT-AGC AAACAA CT TC-TC--ATAAGC TT
 Prmy TTAA TTAAGGGG GGACA-GCTCCTTTTAA TAC-CAGC AAACAA CT GCCT---ATGCGCAT
 Loli CAAG TGGAAAGGG GAACA-GCCCTTTCTA CCA-AGC ACACAA CT TT-TA--TAGGAGCAT
 Loam TTAA TCAAGGGG GTACA-GCCCTTTCGA AAA-AGC ATACAA CT TTAG---CAGAGCAT
 Chab TTAA TCAAAGGGG GTACA-GCCCTTTCGA TAC-AGC ATACAA CT TTTT---TAAGAGCAT
 Chto TTAA TCAAAGGGG GTACA-GCCCTTTCGA TAC-AGC ATACAA CT TTTT---TAAGAGCAT
 Majo TTAG TCAAAGGGG GTACA-GCCCTTTCGA CAC-AGC ACACAA CCTTCC---CAGGAGC GT
 Hlst TTAT TCAAAGGAG GTACA-GCCCTTTCGA TAA-AGC ACACAA CCTTTA--CAGGTGC AT
 Clpe TTAG TCAAAGGGG GTACA-GCCCTTTCGA CAC-AGC ACACAA CT TTTT---CAAGTGC AT
 Mlmr TTAA TCAAAGGGG GTACA-GCCCTTTCGA TAG-AGC ATACAA CT TTTT---CAAGAGCAT
 Cr cr TTAA TCAAAGGGG GTACA-GCCCTTTCGA AAC-AGC GTACAA CT TTTT---TAGGAGC GT
 Muce TTAA TCAAAGGGG GTACA-GCCCTTTCGA AAC-AGC GTACAA CT TTTT---TAGGAGC GT
 Bege TTAT TCAAAGGGG GTACA-GCCCTTTCGA AAC-AGC ACACAA CT TTTA---CAGGCGCAT
 Mela TTAG TCAAAGGGG GTCCA-GCCCTTTCGA ATA-AGC AAACAA CT TTTT---TGGTGC AT
 Hats TTAG TCAAAGGGG GTACA-GCCCTTTCGA AAC-AGC ACACAA CT TTACC--CAGGAGC CT
 Or la TTAA TCAAAGAGG GTACA-GCCTATTTGA TGG-AGC ATACAA CT TTAC---TAGGAGC CT

Cosa TTAA TTAAGGGGTACA-GCCCCTTTAA AAA-AAC ACACAACTTTAA---CAGAAAGT
Exsp TTAT TCAAAGAAGGGACA-GCTTCTTTGA AAA-AAC ACACAACTTTTT---TAGGAGGT
Depa TTAG TCAAAGAGGTACA-GCTCTTTTGA AA--AAC ATACAACTTT-TA--TAGGAGAA
Rima TTAG TCAAAGGAGGAACA-GCCCCTTTGA AAC-AAC AAACAACTT-TT--CCAGAAAGT
Fuol TTAG TCAAAGGGGGACA-GCCCTTTTGA ACC-AAC ATACAACTTTT---TTAGCTGGAT
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Xeei TTAG TCAAAGGGGTACA-GCCCCTTTGA ATC-AAC ATACAACTTTCC---TGGTGGAT
Pros TTAG TCAAAGGAGGTACA-GCTCCTTTGA AAC-AAC ACACAACTTTAC---CAGGAGGT
Scmi TTAG TCAAAGGAGGTACA-GCTCCTTTGA AAC-AAC ACACAACTTTAT---CAGGAGGT
Rolo TTAT TCAAAGAAGGTACA-GCTCCTTTGA AAT-AAC ATACAACTTTA---ACAGGAGCT
Cere TTAA TCAAAGGAGGTACA-GCTCCTTTGA AAT-AAC ACACAACTTTAA---CAGGAGCT
Daga TTAG TCAAAGGAGGTACA-GCTCCTTTGA GA--AAC ATACAACTTTTC---CAGGTGGT
Anco TTAG TCAAAGAGGTACA-GCTCTTTTGA AAC-AAC ACACAACTTTAC---CAGGCGAT
Dmve TTAG TTAAGGAGGTACA-GCTCCTTTAA AAA--AAC ACACAACTTT-CC--CAGGTGGAT
Dmar TTAG TTAAGGAGGTACA-GCTCCTTTAAA --AAC ATACAACTTTTC---CAGGCGAT
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Hoja TTAG TCAAAGAGGTACA-GCTCTTTTGA AAC-AAC ATACAACTTTAC---CAGGAGGT
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Besp TTAT TCGAAGGAGGTACA-GCTCCTTTGA AAC-AAC ACACAACTTTAC---CAGGAGGT
Mysp TTAT TCAAAGAAGGTACA-GCTCCTTTGA AAA-AAC AAACAACTTAAC---CAGGAGGT
Osja TTAT TCAAAGAAGGTACA-GCTCCTTTGA AAA-AAC AAACAACTTTTC---CAGTGGT
Sgro TTAT TCAAAGAAGGTACA-GCTCCTTTGA AAA-AAC AAACAACTTTGA---TAGTGGT
Pzpa TTAA TTAAGGAGGTACA-GCTCCTTTAT TA--TAG AAACACTTT-TA--CAGTGGCT
Zeja TTAA TTAAGGGGTACA-GCTCCTTTT AAT-AGA A-ACACTTTCA---CAGATGCC
Zzne TTAG TTAAGGAGGTACA-GCTCCTTTT AAT-AGA A-ACACTTTTA---CAGATGGTC
Zefa TTAA TTAAGGAGGTACA-GCTCCTTTT AAT-AGA A-ACACTTTTA---CAGATGCC
Acni TTAG TTAAGGAGGTACA-GCTCCTTTT AAT-AGA A-ACACTTTTA---CAGATGCC
Ncrh TTAG TTAAGGAGGTACA-GCTCCTTTT AAT-AGA A-ACACTTTT---ACAGATGCC
Agca TTAG TCAAAGGGGGACA-GCCCCTTTGA CAC-AAC ACACAACTTTAA---CAAGAGGT
Hydy TTAG TCAAAGGGGTACA-GCCCCTTTGA ACC-AAC GTACAACTTTGT---CAGGAGGT
Gzac TTAG TCAAAGGGGTACA-GCCCCTTTGA ACA-AAC ACACAACTTTAT---CAGGAGGT
Pevo TTAA TCAAAGGGGTACA-GCCCTTTTGA TAA-AGA ATACAACTTTA---AGCAGAGGT
Hiku TTAG TCAAAGGGGTACA-GCTCTTTTGA CAT-AGG ACACAACTTTA---TAGTAGTT
Inpa TTAC CCAAAGGGGGACA-GCCCCTTTGA CCC-AAC AGACAACTTTCA---CGGAGGT
Auch TTAG TCACAGGAGGTACA-GCTCCTCTGA TAT-AGG ACACAGCTTTACA---CAGGAGGT
Fico TTAG TCAAAGGGGTACA-GCCCCTTTGA CAA-AGG ATACAACTTTCC---CAGGAGGT
MacS TTAA TCAAAGGAGGTACA-GCTCCTTTGA TAA-AA ACACAACTTTTT---CAGTGGT
Moal TAAG TTAAGGGGGACA-GCTCCTTTAA CAT-AAC ATACAACTTTAT---CAGAAAGT
Syma TTAC TTAAGGGGGACA-GCTCCTTTAA GAC-AAC ATACAACTTTTAC---CAGAAAGT
Mafr TTAG TCAAAGGGGGACA-GCCCCTTTGA AC--AGA ACACAACTTTAT---CAGAAAGT
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Hehi TTAT TCAAAGGGGTACA-GCCCCTTTGA AAC-AAC ATACAACTTTCC---CGGAGGAA
Stam TTAG TCGAAGGGGTACA-GCCCCTTTGA ACC-AAC ACACAACTTT-TA--TAGGAGTT
Hogi TTAG TCAAAGGGGTACA-GCCCCTTTGA ATT-AAC ACACAACTTTTT---AAGGAGGT
Erzo TTAG TCAAAGGGGTACA-GCCCCTTTGA ACC-AAC ACACAACTTTCC---CAGGAGGT
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Core TTAG TCAAAGGGGTACA-GCCCCTTTGA ATC-AAC ACACAACTT-TA--CTAGGAGGT
Apve TTAG TCAAAGGGGTACA-GCCCCTTTGA ATC-AAC ACACAACTTTAC---CAGGAGGT
Latj TTAC TCAAAGGAGGTACA-GCTCCTTTGA ACC-AAC ATACAACTTTCT---AAGGAGGT
Laja TTAG TCAAAGAGGTACA-GCTCTTTTGA AAC-AAC AAACAACTTTC---CCAGGAGGT

Syja TTAT TCAAAGGGGGAACA-GCCCCTTTGA AAC-AAG AAACAACT TTCC --- CAGGAGG GT
 Epme TTAG TCAAAGGGG GTACA-GCCCCTTTGA AAC-AAG ATACAACT TTTT --- TAGGAGG AT
 Grse TTAG TCAAAGGGG GTACA-GCCCCTTTGA AAC--AG ACACAACT TT-AT--CAGAGG AT
 Clja TTAA TCAAAGGGG GTACA-GCTCCTTTGA TAA-AA ATACAACT TCTC --- CAGGTGG GT
 Ogcy TTAT TCGAAAGGG GTACA-GCCCTTTGGA AAT-AAG AAACAACT T-TA--ACAGAGG TA
 Plna TTAG TCAAAAGGAG GTTCA-GCTCCTTTGA AAC-AAG ACACAACT TTTT --- CAGGAGG GA
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 Etzo TTAG TCAAAGGGG GTACA-GCCCCTTTGA ATC-AAG ATACAACT T-TT--CCAGGAGG GT
 Apse TTAG TCAAAGGGG GTACA-GCCCCTTTGA AA--AAG ATACAACT TTA---CCAGAGG GT
 Epde TTAG TCAAAGGGG GTGCA-GCCCCTTTGA AAC-AAG ACGCAA CT TT-CC--CAGGAGG GT
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 Bsja TTAA TCAAAGGAG GGACA-GCCCCTTTGA TAC-AAG ACACAACT TTTA --- CAGAGGACT
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 Cohi TTAG TCAAAGGAG GAACA-GCTCCTTTGA AAC-AAG ATACAACT TTTT --- TAATGG GT
 Caar TTAG TCAAAGGGG GTACA-GCCCCTTTGA ATA-AAG ACACAACT TTTT --- TAGGAGG AT
 Came TTAG TCAAAGGGG GTACA-GCCCCTTTGA ATA-AAG ATACAACT TT-TT--TAGAGG AT
 Mema TTAG CCAAAGGAG GTACA-GCCCCTTTGA ACC-AAG AAACAACT TTAC --- CAGGAGG GT
 Lenu TTAG TCAAAGGGG GTTCA-GCCCCTTTGA CAA-AGG ACACAACT TTAC --- CAGTAGG AA
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 Plma TTAA TCAAAGGGG GTACA-GCCCCTTTGA AAC-AAG ACACAACT TT-CC--CAGGAGG GT
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 Ptti TTAG TCAAAGGGG GTACA-GCCCCTTTGA TAC-AAG ACACAACT TTTT --- CAGGAGG GT
 Losu TTAG TCAAAGGAG GTACA-GCTCCTTTGA CCT-AAG ACACAACT TTTT --- AGCTGG GT
 Geoy TTAT TCAAAGGGG GTACA-GCCCCTTTGA AAC-AAG ATACAACT TTTT --- GAAAAGG CT
 Dipi TTAA TTAAGGGG GGACA-GCCCCTTTAA TCA-AAG ACACAACT TT-TA--CAGGAGG AT
 Pama TTAA TCTTAGGGG GTACA-GCCCCTAAGA TCA-AGG ACACAACT TTCA --- CAGGTGG GT
 Leob TTAG TCAAAGGGG GCACA-GCCCCTTTGA CAT-AAG ACACAACT TTTT --- TAGTAGG CT
 Neba TTAA TCAAAAGGG GGACA-GCCCTTTTGA TAA-AAG AAACAACT TTAC --- TAGGAGG AT
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 Uptr TTAG TCAAAGGGG GTACA-GCCCCTTTGA TAC-AGG ACACAACT TTCC --- CCAGGAGG GT
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 Moar TTAA TCAAAGGGG GTACA-GCCCCTTTGA TAC-AAG ACACAACT TTTT --- CAGGAGG AT
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 Enar TTAG TCAAAGGGG GTACA-GCCCCTTTGA ATC-AAG ACACAACT TTTT --- CAGGAGG AT
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 Mcst TTAG CCAAAGGGG GAACA-GCTCCTTTGGA AAT-AAG ATACAACT TTAC --- CAGGAGG GT
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 Opfa TTAG TCAAAGGGG GAACA-GCCCCTTTGA AAC-AAG ACACAACT TTAC --- CAGGAGG GT
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 Gozo TTAG TCAAAGGGG GTACA-GCCCCTTTGA AAT-AAG ATACAACT TTAC --- CAGGTGG GT
 Ackr TTAA TCGAAGGGG GTACA-GCTCCTTTGA TAT-AAG ACACAACT TTAA --ACAGGAGG GT
 Elev TTAG TCAAAGGAG GTACA-GCTCCTCTGA ATA-AAG AAACAACT TT-TA--TAGATGG AT
 Trdu TTAG TCAAAGGGG GTACA-GCCCCTTTGA AAC-AAG ATACAACT TTC --- CAAGGAGG GT
 Amoc TTAG TCAAAAGGG GTACA-GCCCTTTTGA AAT-AAG ATACAACT TTTT --- CAGGAGG AT
 Hame TTAG TCAAGGGG GTACA-GCCCCTTTGA ACA-AGG ACACAACT TTAA --- CAGGAGG TT
 Chso TTAC CCAAAGGGG GTACA-GCCCCTTTAG GAC-AAG ACACAACT TCCC --- CAGGAGG AT
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Encr TTAG TCAAAGGGG GTACA-G CCCCTTTGA ACC-AAG ACACAA CT TTAT --- CAGGAGG GT
 Bvar TTAA TCAAAGGGG GCCCA-G CCCCTTTGA AAC-AAG ACACAA CT TTTT --- CAGAAGG AT
 Noco TTAT TCAAAGGGG GTACA-G CCCCTTTGA AAC-AAG ACACAA CT TTTC --- CAGGAGG GT
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 Arja TTAG TCAAAGGGG GTACA-G CCCCTTTGA ATC-AAG ACACAA CT TTAT --- TAGGCGG GT
 Pase TTAT TCAAAGGAG GCACA-G CTCCTTTGA AAC-AAG ATACAA CT TTAT --- TAGGTGA AT
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 Lifa TTAG TCGAAGGAG GTACA-G CCCCTTCGA CCA-AAG ATACAA CT TTTT --- AAGACGC CA
 Acur TCAG TCCTAAGAG GTACA-G CTCTTAGGA CAA-AGA GTACAG CC TT-CC--A AGGAGG AA
 Ampe TTAT TCAAAGGGG GTACA-G CCCCTTTGA AAT-AAG ATACAA CT TTAT --- CAGGAGG AT
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 Enet TTAC TCAAGAGGG GGACA-G CTCTCTTGA GAT-AAG ACACAA CT TTTT --- TGATTCG GT
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 Icae TTAA TCAAAGGGG GTACA-G CCCCTTTGA GAC-AAG ACACAA CT TTCC --- CAGGAGG GT
 Asmi TTAG TCAAAGGAG GAACA-G CTCCTTTGA CAA-AAG AATCAA CT TTTC --- TAAGAGC TT
 Foal TTAT TTTAAGGGG GTTCA-G CCCTTTAAA AAC-AGA ATACAG CC CCCT --- TAGAAGG GT
 Drze TTAG TCAAAAGAG GAACA-G CCCTTTTGA CTA-AGA AAACAA TC TTAC --- AAGGAGC TT
 Rhas TTAG TCGAGGGGG GTACA-G CCCCTTCGA AAA-AAG ATACAA CT TTAC --CA TGGAGC AA
 Elac TTAG TCAAGAGGG GTACA-G CCCTCTTGA AA--GAG ATACAA CT CTAA--CA AGCAGC TA
 Kugu TTAG TCAAAAGGG GTACA-G CCCCTTTGA AA--AAG ATACAA CT TTAAT --AGGAAGC GT
 Plor TTAA TCAAAGGGG GTACA-G CCCCTTTGA TAC-AAG AAACAA CT TTAC --- CAGGAGG AT
 Sgun TTAA TCAAAGGGG GTACA-G CCCCTTTGA TAA-AAG ACACAA CT TTTC --- CAGGAGG GT
 Zaco TTAA TCAAAGGAG GTACA-G CCCCTTTGA TAC-AAG ACACAA CT TTCC --- TAGGAGC TT
 ZbfI TTAG TCAAAGGGG GTACA-G CCCCTTTGA CAT-AAG ATACAA CT TTA --- CCAGGAGC TA
 Spba TTAG TCAAAGGGG GTCCA-G CCCCTTTGA AAC-AAG ACACAA CT TTTA --- TAGGAGG GT
 Game TTAA TCAAAGGGG GTACA-G CCCCTTTGA GAC-AAG ATACAA CT TTCC --- CAGGAGG GT
 Thth TTAA TCAAAGGGG GTACATG CCCCTTTGA GAC-AAG ATACAA CT TTTC --- CAGGAGG GT
 Xigl TTAG TCAAAGGGG GTACA-G CCCCTTTGA ACC-AAG ACACAA CT TT-TC--CAGGAGG GT
 Hyja TTAA TCAAAGGGG GAACA-G CTCCTTTGA CCC-AAA ACACAA CT TTCC --- CAGGAGG GT
 Psan TTAG TCAAAGGAG GAACA-G CTCCTTTGA CAT-AAG ACACAA CT TTCC --- CAGGAGG GT
 Cupa TTAA TCAAAGGGG GTACA-G CCCCTTTGA GAC-AAG ACACAA CT TTC --- CCAGGAGG GT
 Mpch TTAG TTAAGGAG GTACA-G CTCCTTTAATA-AAG ATACAA CT TTTT --- CAGATGC AT
 Char TTAG TCAAACGGG GTACA-G CCCATTTGA CCC-AAG ATACAA CT TTTT --- TAGGAGG GT
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 Prol TTAG TCAAAGGGG GTACA-G CCCCTTTGA AAC-AAG ACACAA CT TTTA --- CAGGAGG AT
 Plbi TTAG TCAAAGGGG GTACA-G CCCCTTTGA AAC-AAG ACACAA CT T-TT--CCAGCAGG AT
 Calu TTAG TCGAAGGGG GTTCA-G CCCCTTTGA AAA-AAG ACACAA CT TTTT --- AAGGAGG AT
 Papa TTAA TTAAGGTTG GTACA-G CCCCTTTAAA --CAG ACACAA CT TTTA --- CAGAAGG GT
 SufR TTAG TTACAGGAG GTACA-G CCCCTGTGA CAC-AAG AAACAA CT TTAC --- CAGGAGG AT
 Stci TTAG CTAAGGAG GTACA-G CTCCTTTAT TTA-AAG ACACAA CT TTAC --- CCGGAGG AT
 Taru TTAA TCAAAGGGG GTACA-G CCCCTTTGA TAC-AAG AAACAA CT TTTAA --CAGGAGG AT
 Rala TTAA TCGAAGGAG GTACA-G CTCCTTCGA CAC-AAG AAACAA CT TTTT --- CAGGAGG AT

* * * * *

	;	HVR	;	21	22	22'	21'
Scca	AATG-ATCATA-ATTA--TTAAGGTTTT-----TCCTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Muma	AATG-ATCATAATTATT-----AAGGTT--TC-CACCCC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Erca	AAAG-ATCATAATATA----TAAGGA--CAA--TATTTA	AGTG	GGC	CTGAAAGCA	GCC	AC	CT
Pose	AA-AGATCATAATAATACA--AGGATAAG---ATCC--A	AGTG	GGC	CTGAAAGCA	GCC	AC	CT
Actr	AAA-GATCACATTAAATT--AAAGGAACCTTT---GTTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Scal	AAAG-ATCATA-TTAAATCAAAGGAACCTT----TGTTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Posp	AA-AGATCATATTCAAACC--AAAGGAAATTTGTTT--C	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Atsp	AAAG-ATCACAACA---CAACAGGACCTTCT---GCTCC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Leoc	AAAG-ATCATAACATAAC--AGG-ACTTCCC---GCTCC	AGT	GGC	CTAAAAGCA	GCC	AC	CT
Amca	AA-AGATCATAATGATAAA--AGGACCCC--TACTT--C	AGTG	GGC	CTGAAAGCA	GCC	AT	CT
Osbi	AAAG-ATCATATTTT-----TTAAGGTACTCT---GTTAC	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
Pabu	AAGG-ATTATA-TTA-ATT-AAGGCACTCT----ACTAC	AGTG	GGC	TTGAAAGCA	GCC	AC	CT
Hial	AAGG-ATCATAATGACCA--A-GGTAATC-T---GCTTC	AGTG	GGC	TTAAAAGCA	GCC	AT	CT
Elha	AAGG-ATCATAATC----AAAAGGCACCCT---GCTCC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Mlcy	AAGG-ATCACAATAAAA-----AAGACACCATCAAGCCAC	AGTG	GGC	CTAAAAGCA	GCC	AC	CA
Algl	AAG-GATCATATTATTT---TAAGGTAAATT---GCTTT	AGTG	GGC	CTAAGAGCA	GCC	AT	CT
Ptgi	AAGG-ATCATATT--AAT--TAAGGTACCC---TGCTTC	AGTG	GGC	CTAAGAGCA	GCC	AC	CT
Alaf	AAAG-ATCATAATATT--C--AAGGTAACT---GCTTC	AGTG	GGC	CTAAAAGCA	GCC	AA	CT
Nock	AAA-GATCATA-ACAAATCAAGGTAACTGC-----CTC	AGTG	GGC	CTAAAAGCA	GCC	AA	CT
Anja	AAGG-ATCATACCATA----AAAGGACAAAATTA-CCTC	AGTG	GGC	CCAAAAGCA	GCC	AC	CT
Gyki	AAGG-ATCA----AAACC--CAAGGCATCTT---CCCC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Syka	CAAGGATCATAATAATTTAA---GGTATATTAGCCGCCTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Opma	AAGG-ATCAAAGATTA--CTAAGGATTAGAA--TCCCTC	AGTG	GGC	CCAAAAGCA	GCC	AC	CT
Comy	TA-AGGATTATACTAAAA---AAGGACATGACTTTCAAC	AGTG	GGC	CCGAAAGCA	GCC	AC	CT
Sasp	AAGG-ACCATACCAAAA---A-ATAAACTT--T-TCTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Eupe	AAAG-ATCATAA-----ATTAATAAATATA---CACCC	AGTG	GGC	CCAAAAGCA	GCC	AC	CT
Enja	AAAG-AATATTGC-CAA-A-CAAGGC-CTTG--GGTCTC	AGTG	GGC	CTGAAAGCA	GCC	AT	CT
Same	AAGG-AATATATT---AAC-CAAGGCCACAG---GTTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Chch	TAAGGACCATAGTCAAC-----AAGGAC--ATCCGTTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Grgr	AAGG-GTCACACT--TTTT-CAAGGCAAAC---GTTCC	AGTG	GGC	CTGAAAGCA	GCC	AT	CT
Caau	AA-AGATCATAATACATAA--AACATA----CT-GTTCT	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Cyca	AAAG-ATCATAATACAT-----AAAACATAC--TGTTCT	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
Dare	AAAG-ATCATAATTTACA--AAACACGT--T---GTCGT	AGTG	GGC	CTGGAAGCA	GCC	AC	CT
Cost	AGGG-ATTATAATTAATA--AAATTTATCG---TTTT	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
Leec	AAG-GGTCAAATTTTC-CAAAACCAGTC-----GCCTC	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
CrIa	AAGG-ATCATACT-TAAC--AAAACA-C-GTC--GTCTC	AGTG	GGC	CCAAAAGCA	GCC	AT	CT
Clmc	AAG-GATCATATTAATAAGATTAC-----C---GCTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Phin	AAAG-ACTATACTTAC----TAAGAT-TA--C-TGCTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Icpu	AAAG-ATTATACT-AAATA---AG-ATACGCC--GCTCC	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
Psto	AAAG-ATTACA-TTAAAT-AAGATAAAAC---CGCTCT	AGTG	GGC	CTAAAAGCA	GCC	AT	CA
Cora	AAGG-ATTATATTTA---C-AAAGATTACC---GCTTC	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
Eisp	AAGG-ACCACACTCATTT---AGACTCC-----TGCTCC	GGT	GGC	CTAAAAGCA	GCC	AT	CG
Apal	AA-AGATCATA--TACCCT--AAA-ACA--AC-TGTTTC	AGTG	GGC	CCAAAAGCA	GCC	AC	CG
EsLu	AAGG-ATCATAA----TTACTAAGGC-ACC-T--GTTAC	AGTG	GGC	CTAAGAGCA	GCC	AC	CT
Dape	AAGG-ATCATAATTA--TT-AAGGCTC--CT---GTTAT	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Glse	AAGG-ATCATATTA--ACAAGGTGT--TCT---GCTTC	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
Naar	AAAG-ATCATAAT-AACT--AAGGTGAAC-T---GTTCC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Baoc	AAAG-ATCACAATA----ATTAAGGTCACCT---GTTCC	AGTG	GGC	CTAAAAGCA	GCC	AT	CT
Opso	AAGG-ATCATAATAATTTAA----GGTGC-T---TGCCCC	AGTG	GGC	TTAAAAGCA	GCC	AC	CT
Alte	AAGG-ATCATACTCAA--C-AAGGTCAACC---GTTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT
Plap	AAGG-ATCACCTCAAC-----AAGGTGCGC--CGTTTC	AGTG	GGC	CTAAAAGCA	GCC	AC	CT

Plal AAGG-ATCAAAATTCTT- - - -A-AGGAAAAC--TGTTTCAGTGGGCCTAAGGGCAGCCACCTG
 Sami AA-GGATCATAATT--TT--GAAGGCATACTGTTCC--CAGTGGGCTTAAGGGCAGCCATCTG
 Rere AAGA-ATCAAAGT--AAC--TTAGGTTAGCT--GCTTCAGTGGGCTTAAGGGCAGCCATCTG
 Gama AATG-ATCATATA-TAC--CAAGGG-CCTG--TGCTCCAGTGGGCTAAAAGCAGCCACCTG
 Onmy AAGG-ATCATA--GTTCC-AAGGTAA-CCT--GTTACAGTGGGCTAAGAGCAGCCACCTG
 Sasa AAGG-ATCATAATTA----CTAAGGCAACCT--GTTACAGTGGGCTAAGAGCAGCCACCTG
 Cola AAGG-ATCATAATTA----CTAAGGTAACCT--GTTACAGTGGGCTAAGAGCAGCCACCTG
 Dita GA-GGATCATAAT-ACTTA--AGGTGAAC--TATCT--TAGTGGGCTGAAAGCAGCCACCTG
 Gogr AAAG-ATCATAA--ACCAC--AGGC-CTCAC--GTTATAGTAAGGCCAAAAGCAGCCACCTA
 Chsl AAGA-AGCACAA--CAAG--AAAGGT-CACC--TGTTTTAGTGGGCTAAAAGCAGCCACCTA
 Atja AA-AGATCATAATTAACTA--AGGAAATT-GTTC----TAGTGGGCTAAAAGCAGCCACCTA
 lido AAA-GATCATA--ATTAGCAAGGAAATTGT-----TCTAGTGGGCTAAAAGCAGCCACCTA
 Auja AAAG-ATCATAAAAGC--ACAAAGGAAACTT--GTTCTAGTGGGCTAAAAGCAGCCACCTA
 Chag AAAG-ACCAGAGTTA-AAC-AAGGGGCAAAA--ATTTTAGTGGGCTAAAAGCAGCCACCTA
 Hami AAAG-ATCATAATTA-ACC-AAAGGAGCCTT--ATTTTAGTGGGCTAAAAGCAGCCACCTA
 Saun AAAG-ATCATAATTA---CCCAAG-GAGTCTTATTTTAGTGGGCTAAAAGCAGCCACCTA
 Nema AAAG-ATCATACTTCACTT--AAAGGAAGCC--TGTTCAAGTGGGCTAAAAGCAGCCACCTA
 Disp AAGG-ATCATA-ATCAACCCAAGGAAACT----TGTTTTAGTGGGCTAAAAGCAGCCACCTA
 Myaf AAAG-ATCAAATTCC--ACTAAGGAAACCT--ATTCTAGTAAGGCCAAAAGCAGCCACCTA
 Lagu AAT--ATATTAGC-TACC-CAAGGTA-A-ACT--ATCCAAGTAAGGCCAAAAGCAGCCACCT
 Trtr AAAA-ATCATT-TAATCA--AGGTATTTGTG--GCCCAAGTAAGGCCAAAAGCAGCCACCA
 Zucr AAAA-ATCATTTTACT-T--AAGGTCACTACA--GCCTTAGTAAGGCCGAAAGCAGCCACCA
 Pxja AAAG-ATCAAAATTATTTA-CTAGGTATATT--GTTTTAGTGGGCTAAAAGCAGCCATCTT
 Pxlo AAAG-ATCAAAATTATTTA-CTAGGTATAT--TGTTTTAGTGGGCTAAAAGCAGCCATCTT
 Pctr AA-AGATCATA--TAAAC--A--AGGAAAAT-TATCCCAGTGGGCTGAAAGCAGCCACCTA
 Apsa AA-AGATCATATATTA----G--ACAGGGACTTAACCAAGTGGGCTAAAAGCAGCCACCC
 Cabe AAGG-ATCATAACTTATTA-TAAGGCCTCGT--GCTGTAGTAAGGCCGAAAGCAGCCATCTA
 Bzze GAAG-ATCACA--TTAACT-CAAGGTAGCAT--ACCCCAGTGGGCTAAAAGCAGCCACCC
 Siim AAAG-ATCATA--ATTTTA-AAAAGCAACGT--ACTAAAGTGGGCTAAGAGCAGCCACCTA
 Ctru AAAG-ATCACATCCGC--TTAAGGTAAAAT----ATTTTAGTGGGCTAAAAGCAGCCACCA
 Dpbr AAAG-ATCATG-CCCGCCC--AAGGTA--CTATATTTTAGTGGGCTAAAAGCAGCCACCA
 Caki CAGG-ATCATA-TCAATCAAGGACTAA--AA---TTTAGTGGGCTAAAAGCAGCCACCTT
 Phja CAAG-ATCATACTATCAAA----GGA-TTTTA--ACCTAAGTGGGCTAAAAGCAGCCATCTA
 Brsp TAAG-ATCATAATGTT----TAAGG-ATA--CTAATTTTAGTAAGGCCAGAAGCAGCCACCTA
 Gamo CAAG-ATCATATTACC--CAAG-GATTTCAA--ATTAAGTGGGCTAAAAGCAGCCATCTT
 Lolo CAAG-ATCATATTACCA--AGGATTCCAA--ATTAAGTGGGCTAAAAGCAGCCATCTT
 Batr ATGG-TTCACA-----CTAAACAAAACATTTTATAAGTAAGGCCAAAACCAGCCACCA
 Prmy AAA-GTTCATATTA---AATCACCC-AC---TTTAGAGTAAGGCCTTAATACCAGCCACCC
 Loli AAAG-ATCATAATATT----TTAAGGAAAA-GTACTGTTAGTGGGCTAAGAGCAGCCACCC
 Loam AAAG-ATCATAACGAAATTT--AAAGGAAAGT--CCTCTTAGTGGGCTAAAAGCAGCCACCC
 Chab AAAG-ATCCTACCAAGACATTAAGGCATCAT--ACTTAGTAAGGCCAAAAGCAGCCAACCT
 Chto AAAG-ATCCTACCAAAAACATTA--GGCATCAT--ACTTAGTAAGGCCAAAAGCAGCCAACCT
 Majo AAAG-ATCATA-TTTTTCATAAGGTTCTA----TGCTTAGTGGGCTGAGAGCAGCCACCT
 Hlst AAA-GATCACTTTAAAC--AAGGATGT-AC--ATCAAAGTGGGCTAATAGCAGCCACCT
 Clpe AA-AGATCGTG--CACACT--TACG-----TACTTAGTGGGCTAAAAGCAGCCACCC
 Mlmr AAAG-ATCATA--TATT--AAAC-CG-TA-T--ACTAAGTGGGCTAAAAGCAGCCACCT
 Crcr ACAG-ATCATATTTT-CTTAAGGAACCTTAT--GCCTTAGTGGGCTAAAAGCAGCCACCA
 Muce ACAG-ATCATATTTTACT--TAAGGAACCTA--TGCCCTTAGTGGGCTAAAAGCAGCCACCA
 Bege AAG-GATCAAATTTAC----CAAGGTTAAAT--ACCCAAGTGGGCTAAAAGCAGCCACCT
 Mela AAAG-ATCAAATTCATA----AAGGTAAGTC--ATTGAAGTGGGCTAAAAGCAGCCACCT
 Hats AAGG-ATCAAG--CTCAAC-CAAGGCACAAT--ATTTTAGTGGGCTAATAGCAGCCACCC
 Orla AAAA-ATCACAAT-ATTA--AAGGTCAA--T--GCCCAAGTGGGCTAAAAGCAGCCACCT

Cosa AA-AGATTAATAAATACT-----TAAGGCATTATGTTTTAGTGGGCCTAAAAGCAGCCACCT
 Exsp AA-AAATCAAACCTAAGTTA----AGGCCTTA--TGTTCAAGTGGGCCTAAAAGCAGCCACCT
 Depa AAAG-ACTATATTAA---C--AAAGGCATTA--CGTTTAAGTGGGCCTAAAAGCAGCCAACCT
 Rima AAAATATTATA-----CAAGG-GC-CAT--TCCTCAGTGGGCCTAAAAGCAGCCACCT
 Fuol AATA-ATTATA-AATCAT-AAAGTTCA-----TGCTTAAGTGGGCCTAAAAGCAGCCACCT
 Gmaf AATA-AACATAAA-AAAT-T--AGGTA-AGT---GCCAAGTGGGCCTAAAAGCAGCCACCT
 Xeei TA-TAATCAAATAAATTA--AAGCTAAT---GTTTTATGTGGGCCTAAAAGCAGCCATCA
 Pros AAAG-ATCACA---AGTACTAAGGAAGAA-T--GCTCCAGTGGGCCTAAAAGCAGCCACCT
 Scmi AAA-GATCATAAGTACCAAGGAAAATATTGT---GCCCCAGTGGGCCTAAAAGCAGCCATCC
 Rolo AAAG-ATCATA-ATTA--CCAAGGAAAAG---TGTTTCAGTGGGCCTAAAAGCAGCCACT
 Cere AAGG-ATCATA---TAT-A-TAAAGGTACGT---ACCTCAGTGGGCCTAAAAGCAGCCACT
 Daga AAGG-ATCATACTTATTA--A-GGCAGG--T---GCCTGAGTGGGCCTAAAAGCAGCCACT
 Anco AAAG-ATCAAATAA--TAAAGGAAA--AAT---GTTTCAGTGGGCCTAAAAGCAGCCACT
 Dmve ATAG-ATCAAATTA---ACAAGGCA--CATGTCTTAGTGGGCTTGAAGCAGCCACCT
 Dmar ATA-GATCAA--ATTAAGCAAGGTAT--GT---GTTTTAGTGGGCTTGAAGCAGCCACT
 Anka AAA-GATCAAATTGCAAAGGAAA---AT---GTTTATGTGGGCCTAAAAGCAGCCACCT
 Moja AAAG-ATCAAATTACA-----AAGGAA--AAATGTTTCAGTGGGCCTAAAAGCAGCCACT
 Hoja AAAG-ATCAAATTA-TA---AAGGAA--AAATGTTTCAGTGGGCCTAAAAGCAGCCACT
 Bede AAAG-ATCATAATTATTA--AGGAAACAAG--TGCTCCAGTGGGCCTAAAAGCAGCCACT
 Bosp AA-AGATCATAATTACC-----AAGGAATCAGTGCTCCAGTGGGCCTAAAAGCAGCCACT
 Mysp AA-AGATCATAAT-TATCA---AGGACAAA--TGTTACAGTGGGCCTAAAAGCAGCCACT
 Osja AAAG-ATCATAATTA---C-CAAGGA-CGGA--TGTTCCAGTGGGCCTAAAAGCAGCCACT
 Sgro AAAG-ATCATAATAA---CAAGGGTAGAT---GTTTTAGTGGGCCTAAAAGCAGCCACT
 Pzpa AAAG-ATCAAATTA-----A-TTAAGGAGCCTTATTTAGTGGGCCTATAAGCAGCCACT
 Zeja AAAA-ATCAAACCTAGA--TCAAGGAACCTC----ATTTTAGTGGGCCTAAAAGCAGCCACT
 Znne AAA-GATCAAATAAAT---TAAGGATTATT---ATTTTAGTGGGCCTAAAAGCAGCCACT
 Zefa AA-AGATCAAATAAATT---AAGG--AGTCCTATTTTAGTGGGCCTAAAAGCAGCCACT
 Acni AAA-GATCAA-ATAGATTAAGGAACCTTAT-----TTTAGTGGGCCTAAAAGCAGCCACT
 Ncrh AAAG-ATCAA-ATAGAT-TAAGGAACCT----TATTTAGTGGGCCTAAAAGCAGCCACT
 Agca AAAG-ATCAAATTAC--CTAAAGGTAATA---GTTTTAGTGGGCCTAAAAGCAGCCACT
 Hydy AAA-GATCATACTAAGCAAGGAA--AGT-----ACTCCAGTGGGCTTGAAGCAGCCACT
 Gsac AAAG-ATCATAATAA--ACAAAGGGAAGT----ACTCTAGTGGGCTTGAAGCAGCCACT
 Pevo AAAG-ATTATAAT-TTTC-A--AGGCAT-GAT--ACTCAAGTGGGCCTAAGAGCAGCCACT
 Hiku -AAAGATCAAATAATA---AAGTTC--ACATGCCTTAGTGGGCCTGAAAGCAGCCACT
 Inpa AAAA-ATACAA--CA-CCC-AAGATACAAC---ACCACAGTGGGCCTAAAAGCAGCCACT
 Auch AAAG-ATCATTTTACCTC--AAGGCCTTAC---CCGCAGTGGCTTGAAGCAGCCACT
 Fico AA-GGATCATACACAT-----AAAG--CACGATGCACCAGTGGGCCTAAAAGCAGCCACT
 Macs AAAG-ATCATAATCACGAC-AAGGCAA-AAT---GTTCCAGTGGGCCTAAAAGCAGCCACT
 Moal AAAG-ATCATAATAAT--C--AAGGTACCAA--CTTTTAGTGGGCCTAAAAGCAGCCACT
 Syma ACGG-CTCATTATATC---TAAAGGCATTTT--ATACCAGTGGGCTTAAAAGCAGCCACT
 Maf r AA-AGATTATAA-TACCTC--AAGGA--AATA-TGTCTAAGTGGCCTAAAAGCAGCCACT
 Dcpe AAAG-ATCATA--ATTC-TCAAGG--TAAA--GTATTAAGTGGGCTTAAAAGCAGCCACT
 Dct i AAAG-ATCATA-ATTT--TTAAGGTAAAG-----TATTAAGTGGGCTAAAAGCAGCCACT
 Hehi AAAG-ATCATAAT-TAAA--TAAAGG-TAAG--TATTTAGTGGGCCTAAAAGCAGCCACT
 Stam AAAG-ATCATAACAAA----TTAAAGG-CATAATGTTTTAGTGGGCCTAAAAGCAGCCACT
 Hogi AAG-GATCATA-TTAAAAATAAGGACATTAT---ACTCTAGTGGGCCTAAAAGCAGCCACT
 Erzo AAAG-ATCATAATAA---CAAAGGCAAAT---ATTTAGTGGGCCTAAAAGCAGCCACT
 Hxot AAAG-ATCATAATAA---TTAAAGCTAAT---GTTCTAGTGGGCCTAAAAGCAGCCACT
 Core AAAG-ATCATAATAAC-TA---AAG-CTAGAT--GTTCCAGTGGGCCTAAAAGCAGCCACT
 Apve AAAG-ATCATAATAAC----TAAAG-CTA--AATATTCTAGTGGGCCTAAAAGCAGCCACT
 Lat j AAAG-ATCATAATCT-AAC-AAGGCA-AAAT---GTTCCAGTGGGCCTAAGAGCAGCCACT
 Laja AAAG-ATCATA-ATAAGAATAAGGTAATA---TGTTTTAGTGGGCCTAAAAGCAGCCACT

Syja AAA-GATCATAATATATTTTAAGGTAATCGT---GTTCTGGTGGCCTAAAAGCAGCCATCC
 Epme AAAG-ATCATAATTA-AAT-AAGGCA-AAAC---ATCAGGGTGGCTTGAAGCAGCCATCC
 Grse TAAG-ATCATAATAA----TCAAGGCAATGT---GTCCCAGTTGGCCTAAAAGCAGCCATCC
 Clja CTGG-ATCATATTAGTTTATAA-AGGTAAT--ATATAAGTGGCTTAGAAGCAGCCATCA
 Ogcy -AAAGATCACAAT--TAACCCA-AGGCATTAA--ACCCAAGTTGGCTTAAAAGCAGCCACCC
 Plna AA-AGATCACAGCACCATA--AAGGC--AAA-GTACATCAGTGGCCTAAAAGCAGCCACCC
 Lema AAAG-GTCATAAT-AAAC--AAAAGTAGGAT---GTTCTGGTGGCCTAAAAGCAGCCATCC
 Etzo AAAG-ATCATAATTACAGA---AG-GTATAAT--ATTTAGGTGGCCTAAAAGCAGCCATCC
 Apse TAAG-ATCACAGC-ACTTATTAA-GGGAACGT--GTTCTAGTTGGCCTAAGAGCAGCCACCA
 Epde AAAG-ATCATAATTAA----TTAA-GGTAA-AATGTTCTGGTGGCCTAAAAGCAGCCACCC
 Slja AAAG-ATCATATTTATATT---AAGGCT--AAGTGTCCGAGTGGCCTAAGAGCAGCCACCC
 Bsja AA-AGATCATATTCACATTTA--AAGGTAAGCATGTTCTGGTTGGCTTAAAAGCAGCCCTCC
 Ecna ATAG-ATCATAAT---ACT-AAAGGTAAT---GTTTTAGTGGCCTAAAAGCAGCCACTA
 Cohi AAAG-ATCATATTA--TTTAAAGTA-----AAAATCTCAGTGGCCTGAAAGCAGCCACCA
 Caar AAAG-ATCATAATTTTCAA---GGCA---AACGTTTTGGTGGCCTAAAAGCAGCCATCC
 Came AAAG-ATCATAATT-----TT-TAAGGAAGAATGTTCCGGTGGCCTAAAAGCAGCCATCC
 Mema ATCA-ATCATA--TTA-TT-CAAGGCAAAAT--GCCAAGGTGGCCTAAAAGCAGCCATCC
 Lenu AAAG-ATCATA-TTCCCTA---AGGAAA--CCCTGCTTAAAGTGGCCTAAAAGCAGCCACTT
 Brja AA-AGATCATA--ATCACC--AAGG--ACATA-TGCCCTAGTGGCCTAAAAGCAGCCACTA
 Plma AAAG-ATCATAATTA-----CTA-AAGGTAATATGCCCTGGTGGCCTAAAAGCAGCCACCC
 Emst AAA-GATCATAATAAATTTAAAGGTAAT---GTTTTGGTGGCCTAAAAGCAGCCATCC
 Ptti AA-AGATCATATTTAAATT--AAA--GGTAGTATGTTTTAGTGGCCTAAAAGCAGCCATCC
 Losu AA-AGATCATAACAACCCT--AAA--GGTAGGGTGTGTTTTGTTGGCCTAAAAGCAGCCACCC
 Geoy AAAG-ATCACACCCACCC-TAAGGT-TAGA--TGTTCCAGTGGCCTAAAAGCAGCCACTC
 Dipi AAAG-ATCATAATCAAATC--AAAGGTAATA--GTCCAAGTGGCCTAAAAGCAGCCATCC
 Pama AAAG-ATCATAATTAACC--CAAGGTAAGC--ACCCAGGTGGCCTAAAAGCAGCCACCA
 Leob AA-AGATCATAAACCCCTC---GAAGG--ACGGTATTAAAGTGGCCTAAAAGCAGCCACT
 Neba AAAG-ATCATAATTTCA-ACAAAGGTAGAAT--ATTCTGGTGGCTTAAAAGCAGCCACTA
 Pdpi AAAG-ATCATAGT-ATTC-TAA-AGGATCTCC--GTCTTAGTTGGCTTGAAGCAGCCACCA
 Nimi ATAG-ATCACATTCAAATTCAGGTAAT---GTTTTGGTGGCCTAAGAGCAGCCACCC
 Uptr AAAG-ATCATATT-TTAT-ATAA-GGTGCTAT--GTCTTAGTGGCTTAAAGAGCAGCCACCT
 Pesc GTGG-ATCAAAATATGAC--AA-GGTA-ACC---CCCTGGTGGCCTGAAAGCAGCCATCC
 Baar AAAG-ATCATAACAA--CCAAAGGTACAAAT--GTCCTGGTGGCCTAGGAGCAGCCACCC
 Moar AAAG-ATCATAATTAACCTA-AAGGCAAAAT---GTTCTGGTGGCCTAAAAGCAGCCATCC
 Toja AAAG-ATCATATTAACC--AAGGCAGAAT--GTTTAGTGGCCTAAAAGCAGCCACT
 Chau AAAG-ATCATAATTA-AAC-AAGGCAAGA---GTCTAAGTGGCCTAAGAGCAGCCACCC
 Chse AAA-GATCACAATTTAAACAAGGAATAA-----TATCTAGGTGGCCTAAAAGCAGCCACTA
 Enar AAA-GATCATATTTAAACAAGGTAAT-----GTTCTGGTGGCCTAAAAGCAGCCATCC
 Hpty AAAG-ATCATAATAAAT--AAAGGTAGAAT---GTTCTGGTGGCCTAAAAGCAGCCACT
 Nana ATCG-ATCATAATATAA---CAA-GGCAACAT--ACCCTAGTGGCCTAAAAGCAGCCACT
 Mcst AAA-GATCATAATAAGCC--AAGGCAAA-AT---GTTCTAGTGGCCTAAAAGCAGCCACTA
 Rhox AA-AGATCATAATAAAT--TAAG--GTAAGATGTTCTGGTGGCCTAAAAGCAGCCACT
 Opfa AAAG-ATCATAATAAAT--AAAGGTAAT---GTTCTGGTGGCCTAAAAGCAGCCACCC
 Paar AAAG-ATCATA-TTCTCAA-CAAAGTATTT--TATTCTGTTGGCCTAATAGCAGCCACTA
 Gozo AAAG-ATCATAGTAA-AAT-AAGGTAGAAT----GTTCCGGTGGCCTAAAAGCAGCCACT
 Ackr AAAG-ATCATATC---GTCTAAGATAAA-AA--TCCCTGGTGGCTTAAAAGCAGCCACT
 Elev AAAG-ATCACAAACAAC-----AAGGATGAG--TGTTCAAGTGGCTTAAAACCAAGCCACTA
 Trdu AAAA-ATCACAAAC-AACTTAAAGGAT-AGAT--GTCCTAGTGGCCTAAAAGCAGCCACTA
 Amoc AAAG-ATCATACCCATTTT-AAGGAAA-AAC---GCTTTGGTGGCCTAAAAGCAGCCACTA
 Hame AA-AGATCAAAGTTAAC-----AAGG--ACCAGTCTTAAAGTGGCCTAAAAGCAGCCACT
 Chso AAAG-ATCAAAAT-AACTAT--AGGAGA-GCAT-GTTTTAGTGGCTTAAAGAGCAGCCACT
 Lyto AAAG-ATCATAA--TACC--TAAAGG-AGAA--TATTTGGTGGCCTAAAAGCAGCCACT

Encr AA-AGATCATAAT-AAACC--AAAGG--TAA-ATATTTGGTGGGCCTAAAAGCAGCCATCC
 Bvar AAAG-ATCATAATAAC--T--AAGGTAA-CA---CCTCCCGTGGGCTCGAAAGCAGCCACCC
 Noco AAA-GATCATAATTACA---CAAGGTAAGTA---ACTCTCGTGGGCCGAAAGCAGCCACCC
 Chsp TAGG-ACCATAAACCCATA----AGACAACAT--ACTTTTCTGTTAAAAGCAGCCATCAG
 Arja AA-AGATCATAAT-AATTA--A--AGCTGAA--TACTCTGGTGGGCCTAAAAGCAGCCATCC
 Pase ATAG-ATCATAATACAA-G-CAAGGCTCAAT---GTTCCCGTGGGCTAAGAGCAGCCACCG
 Trel AAAG-ATCGTATTTACGT----AAGGAC--TTGTGACAACTGTTGGCCTAGAAGCAGCCATCAT
 Lifa AA-AGATCATAGTCA-TA---CA--AGG-AGACTGCTCAGGTGGCCTAAAAGCAGCCACCT
 Acur GAAG-----ATA-TTTAA-AAGGTAT-AAA---TGTCCTGTTGGCTTAAAAGCAGCCATCAC
 Ampe TAAG-ATCATATTAATAA--AAAGGCAAAAT--GTTCTGGTGGGCTAAAAGCAGCCATCC
 Urja AAA-GATCATA-CAAACCTCAAGGCACAGT-----GTTTTGGTGGGCTAAAAGCAGCCACCA
 Enet AAAG-ACCATAATAGC--T-AAGGTAAAAC----ACATTAGTAGGGCTAAAAGCAGCCATCT
 Ptbr AAAG-CTTATAATACAT-T-TTAGGT-TAAA--TACACTCGTGGGCTTAAAAGCAGCCATCTA
 Safa AAGG-ATTAAC-CTAATAA---AGGCAC--CCGTACACTAGTTGGCTTAAAAGCAGCCATCT
 Icae AAAG-ATCATAATTAATA--AAGGTAACAAT---GCCCTGGTGGGCTAAGAGCAGCCACCT
 Asmi AAAG-GTCCTATT--CAA--AAAGGTTAAAA---ACTAGGGTTGGCTTAAAAGCAGCCAGCC
 Foal AAGG-ATCATAAA-CAACCTTAAGGTATTAT---ATTTAAGTTGGCTTAAAAGCAGCCACCT
 Drze AAGG-ATCAAAA--TATT--AAAGGTATT-T---ACTTGGTTGGCTTAAAAGCAGCCAAACC
 Rhas AAAG-ATCAAAGCACCTCA---GGC-ATTAT--GTTTTAGTTGGCTAAAAGCAGCCACCT
 Elac AAAG-ATCAAAAAGATA----AAAGGCATTAC---ATTCAAGTTGGCTAAAAGCAGCCACCT
 Kugu AAA-GATCCTAGTACAAAACCTAAGTAAC--T---GTTACTGTTGGCCAAAAGCAGCCATCAA
 Plor TAAG-ATCATAATTAAC--CAAGGCATAAT---GTTCTGGTGGGCTAAAAGCAGCCACCC
 Sgun AAAG-ATCACACTAAACTATTAAGGTTCTG--TGTTTAAAGTTGGCTAAAAGCAGCCATCC
 Zaco AAA-GATCATAATTAGACCA--A-GGCAAAA--TGTTTTAGTTGGCTTAAAAGCAGCCACCT
 Zbfl AAAG-ATCATA-ACTA--TTAAGGCGTAA----TGTTTTGGTGGGCTAAAAGCAGCCATCC
 Spba AAAG-ACCATA-CTAT-AT-CAAAGAATTAA--TGTTTTCTGTTGGCTAAAAGCAGCCACCT
 Game AAAG-ATCATAATTA--AC-AAGGTAATAAT---GCCCTGGTGGGCTAAAAGCAGCCATCC
 Thth AAAG-ATCATATTTACCC--AAGGTAACAA--TGCCCAAGTTGGCTAAAAGCAGCCATCC
 Xigl AAAG-ATCATAAT-AA----TCAAGGA-AC-AATGTTCTGGTGGGCTAAAAGCAGCCATCC
 Hyja AAAG-ATCATAATT--ACTAAAGGGA--CAT--GCCCTGGTGGGCTTAAAGAGCAGCCACCA
 Psan TAA-GATCATAATTAAT---TAAGGGAT-GT---GCCCTGGTGGGCTTAAAGAGCAGCCACCA
 Cupa AAAG-ATCATAAT-TACT-AAAGGCAAT-AAT--GCCCTGGTGGGCTAAAAGCAGCCACCT
 Mpch AAA-GATCATAATAACTAAAGGATAAGT-----GTTTTAGTTGGCTAAAAGCAGCCATCTA
 Char AAAG-ATCATATTA--CCAAAGGGAA--A---ATGTTTTAGTTGGCTAAAAGCAGCCACCTA
 Pser AA-AGATCAAAATATACCA--AGGAA--ATA--TGTTCTGGTGGGCTAAGAGCAGCCATCC
 Prol AAAG-ATCATACTCAATC--AAGGACAAA-T---GTTTTAGTTGGCTAAAAGCAGCCACCT
 Plbi AAAG-ATCATATT--CAAA-TAAGG-ACAGAT--GTTTTAGTTGGCTAAAAGCAGCCACCT
 Calu AA-AGATAGCA-----ACC--AA--GGGCAG--CGCTTCAAGTTGGCTGAAAGCAGCCAACT
 Papa AAG-GATCACACTGATCACAAAGGAGTATGT---A-CCCTGTTGGCTTAAAAGCAGCCACCT
 Suf r TAA-GATCAAATTAATTA--AAAGGCATTAT---GTTTAAAGTTGGCTAAAAGCAGCCATCC
 Stci AAA-GATTATA--AT-AGTTAAGGGACTAAT---ATTTTGGTTGGCTGAAAGCAGCCATCC
 Taru AAGG-ATCATAAAA--AATCAAGGCACC-GC---GCTTAAGTAGGGCTTAAAAGCAGCCACCA
 Rala AAAG-ATCATATTTACTA---AAGGTC--TGATGTTAAAGTTGGCTAAAAGCAGCCATCC

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	23	23'	!	HVR	!	
Scca	--TTAA	GTAAGCG	GTCACAGCTC	TAGTTTTTTTAA	--A----	ACCCA--TAATTTA
Muma	--TTAA	GTAAGCG	GTCGCAAGCTC	CAGTCTAACAC	--TAA----	A--CCTATAATTTA
Erca	T---	TAGATA	GCGTTATA	GCTCAAATA	---ATACTCCA	-----CCCAAA-TATCCG
Pose	--TAAA	GAAGA	GCGTTATA	GCTTAAATACT	--C---	AAA----AACCCGAATATCCT
Actr	C--ACA	GAAGA	GCGTTAAA	GCTCAGACAAAA	-CCC-----	CACCCTATTATCCC
Scal	--CACAG	GAAGA	GCGTTAAA	GCTCAGACAAAACCTC	--A-----	TCCCA--TTATCCC
Posp	--CACAG	GAAGA	GCGTTAAA	GCTCAGACA	--AAAC--TCC	----ACCCTA-TTATCCC
Atsp	C--ATAG	GAAGA	GCGTTAAA	GCTCAGGCAGAAATCC	-CCC-----	AATT---ATAAC
Leoc	C--ACA	GAAGA	GCGTTAAA	GCTCAGGCAGAAG	---CCA-----	TCCAATTATAAC
Amca	--AAAA	GAAGA	GCGTTAAA	GCTCAAGCAGG	--A---C-A	----TACCCAATTATACC
Osbi	A--TTA	AAAA	GCGTTAAA	GCTTAAACA	---GAAAACAA	-----ACCTATCATCCC
Pabu	T--AAA	GAAGA	GCGTTAAA	GCTCAAGTAAA	----ACATA	----AGCCTATTATTAC
Hial	--AGTAG	GAAGA	GCGTTAAA	GCTCAGGCA	--GAATCAAA	---ACCTATT----ATCCT
Elha	A--ACA	GAAGA	GCGTCAAA	GCTCAGGCAGGACCACA	-TT-----	AACCTATTATTCT
Mlcy	--TACAG	GAAGA	GCGTCAAA	GCTCAAGCAAACAAACA	-----	AGTCCATTATTAC-
Algl	G--ATA	GAAGA	GCGTTAAA	GCTCAGGTAAA	-ATTTAA	-----CCTTTAATACT
Ptgi	T--ATAG	GAAGA	GCGTTAAA	GCTCAAGCA	---GAATTAA	----ACCCGT-AATACC
Alaf	TCAATA	GAAGA	GCGTTAAA	GCTCAGCAGAAGAAAACCC	-----	CT-----AATTCC
Nock	TTAACA	GAAGA	GCGTTAAA	GCTCAGGCA	-----GGAA	----GATCCTATAATTCC
Anja	T--AAA	GAAGA	GCGTTAAA	GCTCCGGTA	-AA--TACAGA	-----CCA-ATAATAAA
Gyki	--TAAA	GATA	GCGTTAAA	GCTCAAGCA	---TACTTTA	---ACCAAGAA---TGTA
Syka	--AACAG	GAAGA	GCGTTAAA	GCTCCGGCA	---GAA--AAC	----TCACCAATAATAAA
Opma	--GAAA	GAAGA	GCGTTATA	GCTCAAGGA	-AGAACC--C	----ACCAA--CAATAAC
Comy	T-AATA	GAAGA	GCGTTAAA	GCTCAAGAACAGCC	----A-----	CA-CCAAAAATAAA
Sasp	T--AAA	GAAGA	GCGTCAAA	GCTCAGACAC	--AAGACAA	-----TAAATAATAAT
Eupe	T--AAA	GAAGA	GCGTCAAA	GCTCCGTATAGAACAAA	-T-----	TGC--AATCAC
Enja	A--TCT	GAAGA	GCGTTAAA	GCTCCGGC	---CAAAGAA	----AGCCTTTTATTTA
Same	A--ACA	GAAGA	GCGTTAAA	GCTCAGACCAA	-----TCCA	----AGCCTATTATAAC
Chch	--AACAG	GAAGA	GCGTTAAA	GCTCAGACGGAA	-AA--TAT	---AATCCTATTATCCC
Grgr	--TTGAG	GAAGA	GCGTTAAA	GCTCGGACTG	--AACTCAA	----TCCT--ATTATGCC
Caau	--AACAG	GAAGA	GCGTTAAA	GCTCAGACAGAC	-A--GAAG	----T--TTATTA-TCCT
Cyca	A--ACA	GAAGA	GCGTTAAA	GCTCAGACA	---G-AAAAA	----G-TTTATTATCCC
Dare	--AAAA	GAAGA	GCGTTAAA	GCTCAGGTAAGAAGAAATT	---CATA	-----ATTCT
Cost	A--GCA	GAAGA	GCGTTAAA	GCTCAAAC	---GATGTAA	----ATTTAT-TATTTT
Leec	--AACAG	GAAGA	GCGTTAAA	GCTCAAGCG	---ACATAAA	----GTT--TATTATTCT
CrIa	--ATCAG	GAAGA	GCGTTAAA	GCTCAAACGAC	---ACAA	----AGTTTA-TTATTCT
Clmc	--GTCAG	GAAGA	GCGTTAAA	GCTCAGGCA	-----GATTAC	----AAATCTATTATCCC
Phin	T-CTAA	GAAGA	GCGTTAAA	GCTCAAACAGAAA	---AAA	-----ATCTATTATCCC
Icpu	--AACAG	GAAGA	GCGTTAAA	GCTCCGGCAGACTACA	-A-----	TCTA--TTATTTA
Psto	--AACAG	GAAGA	GCGTTAAA	GCTCTGGCGGGATAA	--AA-----	ATCCA--TTATACA
Cora	A--ACA	GAAGA	GCGTTAAA	GCTCAAGCAGACAA	-----A	----AATCACTTATACC
Eisp	C--ATAG	GAAGA	GCGTTAAA	GCTCAGGCA	---G-ACAAAA	----GTCTATA-ATTCA
Apal	--TATAG	GAAGA	GCGTTACA	GCTCAAACAGATTAA	--ATC	----T----AACAAATCCA
EsLu	--TGTAG	GAAGA	GCGTTAAA	GCTCAGACAGA	----TACC	----AGCTC--TTATTCT
Dape	T--AAA	GAAGA	GCGTTAAA	GCTCAAACAGATG	-----CC	----CGCCTCTTATCCT
Glse	T--GCA	GAAGA	GCGTTAAA	GCTCAAACAGACTACAAACC	-----	TTTT---ATTCT
Naar	--CACAG	GAAGA	GCGTTAAA	GCTCAGACAGACAAACAAA	---CCTTTT	-----ATCCC
Baoc	C--ACA	GAAGA	GCGTTAAA	GCTCAGACAGA	--CAA-CA	----AATTTTTTATCCT
Opso	A--ACA	GAAGA	GCGTTACA	GCTCAGACAAACCCCTTTTA	-----	AACCTTTTTATTCT
Alte	C--ACA	GAAGA	GCGTTAAA	GCTCAGACG	---GACCAA	----GACCCTTTATTCT
Plap	C--ACA	GAAGA	GCGTTAAA	GCTCAGACG	---G-ACCAA	----GACCCCTTATCCT

Plal A--TTA**GAAA**-**GCG**TTAAA**GCTC**AGACA----GTATAGT-----CCTCTTATCCT
 Sami --ACTA**GAAA**-**GCG**TTAAA**GCTC**AGGCAGCAC-----A-----CA-CCTCTTATCCT
 Rere --AATC**GAAA**-**GCG**TTAAA**GCTC**AGGCA-GCGACCG-----C-CCACTTATTCT
 Gama C--TC**A****GAAA**-**GCG**TTAAA**GCTC**AGACAC--CCCTCAGC-----CCCTTT-TATTTT
 Onmy C--ACA**GAAA**-**GCG**TTAAA**GCTC**AGACAGAT---ACAAA-----C-CTCTTA-TCCT
 Sasa C--ATA**GAAA**-**GCG**TTAAA**GCTC**AGACA---GATA-TAA-----GCCTCTTATCCT
 Cola C--ATA**GAAA**-**GCG**TTAAA**GCTC**AGACAGACAC-----G-----AACCTCTTATTTT
 Dita --GACA**GAAA**-**GCG**TTAAA**GCTC**AAACAGATCAGCCTTT----AAACCTCTAATTTG
 Gogr --TTC**A****G****A****G**-**GCG**TTACA**GCCC**AAGCAAATCACA--C-----CCCC--CCATCTC
 Chsl A--ATA**GAAA**-**GCG**TTAAA**GCTC**AAACAG--GCCCT-----CACCTCTAATTAC
 Atja --TGA**A****G****A****A**-**GCG**TTAAA**GCTC**ATACAACCTA--TAAA----T--CCGATTATACT
 lido --TGA**A****G****A****A**-**GCG**TTAAA**GCTC**ATACAAT---TTATTA----AT-CCAATTATTCT
 Auja A--GT**A****G****A****A**-**GCG**TTAAA**GCTC**AGACAAC-CTCCTCTA-----A-CCTATTATCCC
 Chag A--GCA**AAAA**-**GCG**TTAAA**GCTT**ATATGGACATCATTAG----CCCCCTAATTAT
 Hami C--ACA**AAAA**-**GCG**TTAAA**GCTT**AAATAAG----ACCTA----C-CCTATTATCCC
 Saun C--AGA**AATA**-**GCG**TTAAA**GCTT**AAA--TA--AAAACCC-----CCCCATTATCCC
 Nema A--AA**G****A****A**-**GCG**TTAAA**GCTC**AGACAC--TCCATACA-----C-CCCTAATACC
 Disp --TAA**G****A****A**-**GCG**TTAAA**GCTC**ATACAATTT---CG-----ACCCT--TAATACC
 Myaf A--GA**A****G****A****A**-**GCG**TTACA**GCTC**C-TATAAACCCAG-C-----CCCCTAATACC
 Lagu ---CCC**G****A****A**-**GCG**TTAAA**GCTC**AAGTAGT----CCTA-----AACCAC-TAATTCC
 Trtr A--TC**A****G****A****A**-**GCG**TTAAA**GCTC**AAGC-CACA---TCA-----ACCCTATTATTAG
 Zucr --TCCT**G****A****T****A**-**GCG**TTAAA**GCTC**AAG----CTGTATCT---ACCCTATT---ATTCT
 Pxja G--TT**A****G****A****A**-**GCG**TTAAA**GCTC**AAACACCTA---TTATT----AACCTTTTATTAT
 Pxlo G--TT**A****G****A****A**-**GCG**TTAAA**GCTC**AAAC--ACCTATTATT----AACCTTTTATTAT
 Pctr --AGC**A****G****A****A**-**GCG**TTAAA**GCTC**AATTA---ATG--ATC---CAACCAGTTATACT
 Apsa --AACA**G****A****A**-**GCG**TTATA**GCTC**AACTAAAATC---GCC----CCATTT---ATAAC
 Cabe T--GT**A****G****A****T****A**-**GCG**TTAAA**GCTC**AAGCACAT-----TTA-----ACCCACCCATGCC
 Bzze A--AG**A****G****A****A**-**GCG**TTAAA**GCTC**AAGTATGAA---CTAA-----ACCTATT-ATTCT
 Siim --GAG**A****G****A****A**-**GCG**TTAAA**GCTC**GAGTAC-TA---ACTA-----GCCAATT-ATACT
 Ctru C--GT**A****G****A****A**-**GCG**TTAAA**GCTC**AAATA----TAAACAA-----AACCCATTATCCT
 Dpbr --TGA**A****AAAA**-**GCG**TTAAA**GCTT**AAATATAATCA--A-----ACCCATTA-TCCC
 Caki --TAA**A****G****A****A**-**GCG**TTAAA**GCTC**TAACTATCTAGC-AC-----ACCCT--TTATACT
 Phja ---ATA**G****A****A**-**GCG**TTAAA**GCTC**AAATTAA--ATATCA-----TCTTG--ATATCCC
 Brsp C-CCTC**G****A****A**-**GCG**TTAAA**GCTC**AAATT-AA--ATCAAT-----CCTCACATCCCG
 Gamo A--TC**A****G****A****A**-**GCG**TTAAA**GCTC**AAATTAGCCTAT---A-----TCCTCATA--TAC
 Lolo A--CT**A****G****A****A**-**GCG**TTAAA**GCTC**AAAT---TAGACATC-----ATCCTCATATACT
 Batr C--CAT**G****A****A**-**ACG**TCATA**GTTC**-----TA-AAAATCCT-----GCTACCAATCTC
 Prmy --AAA**G****A****A**-**GCG**TTAAA**GCTC**AAA-----TACCC--ACAATTAA-ATTCC
 Loli T--ATA**G****A****A**-**GCG**TTAAA**GCTC**AAGTATAG--TACTAC-----CCATACATCCCG
 Loam G--ACA**G****A****A**-**GCG**TTAAA**GCTC**AAATA---C-GGAGCA-----CCCTATATATTCT
 Chab --TACA**G****A****A**-**GCG**TTAAA**GCTC**GAGT--ATAACTA-----ACCCTATAAAACT
 Chto --TACA**G****A****A****A****G****C****G**TTAAA**GCTC**GAGTATA-ACTAA-C-----CCTAT--AAATACT
 Majo --ATT**A****G****A****A**-**GCG**TTAAA**GCTC**GGACATACCTAA-AC-----ACCTA--TTATAG
 Hlst --AGT**A****G****A****A**-**GCG**TTAAA**GCTC**AA--ATG--TAAAAA---ATCTAATT-ATTAC
 Clpe --CTC**A****G****A****A**-**GCG**TTACA**GCTC**GAGTA--CAGC--CCC---AGCCT---CATCCC
 Mlmr --CAT**G****A****A**-**GCG**TCTCA**GCTC**AAGTATAACCCCC--CCCCCCCCCAATACT
 Cr cr A--CCA**G****A****A**-**GCG**TTAAA**GCTC**TAACAT----TCCTTC-----CTCCCTAATACT
 Muce A--CCA**G****A****A**-**GCG**TCAA**GCTC**TAACA----TTCTTC-----CTCCCT-AATACT
 Bege A--GAG**AAAA**-**GCG**TTATA**GCTC**AAGTATAG-ACA-----CAACTAATAATTCT
 Mela A--ATA**AAAA**-**GCG**TTAAA**GCTT**GAACATT-GCACTCAA-----ACCCCTAATTCC
 Hats A-AACA**G****A****A**-**GCG**TTAAA**GCTC**AAATATACC---ACA-----GCCCTA-ATCCT
 Or la --AATA**AATA**-**GCG**TTAAA**GCTT**AAGCATAAAAATCA---CCTACA-----ATTCT

Cosa --AGAA**GAAA**-**GCG**TTACA**GCTC**AAACATAACT---C-----CAACCAATAACT
Exsp --AAAA**GAAA**-**GCG**TTATA**GCTC**GAACATT--A---TTA----CTTCCTTTAACT
Depa G--AGA**GAAA**-**GCG**TCAAA**GCTC**AAACAT--AAAGAAAG-----CCCTTAATAA--T
Rima --AAAA**GAAA**-**GCG**TTAAA**GCTC**AAAATCTCAAACCCC-----TT-----AAATCCC
Fuol --GAGA**GATA**-**GCG**TTAAA**GCTC**AAACATAACTT--AA-----ACTAA--TTATATC
Gmaf ---TAA**GAAA**-**GCG**TTAAA**GCTC**AGACACACCCCTTCC-----CACCTC-AAATCCC
Xeei --AAAA**AATA**-**GCG**TTAAA**GCTT**AAACATACCC--CTCC----CCGCTATTATTTT
Pros --AACA**GAAA**-**GCG**TTAAA**GCTC**AAGCATCCGCCA-C-----CCT-C--AAATCCC
Scmi --CACA**GAAA**-**GCG**TTAAA**GCTC**AGACAC---TCCTCCC----CCACCTTAAATCCC
Rolo --AATA**GAAA**-**GCG**TTAAA**GCTC**AGACACAACCTC-CA-----ACCCC--CGATACT
Cere A--AAA**GATA**-**GCG**TTAAA**GCTC**AAGCACATG---CCCG-----ACCTAAT-ATACT
Daga --TGAA**GAAA**-**GCG**TTAAA**GCTC**AAGCAC-GTATTACA---GCCCCCT----ATAAT
Anco A--GCA**GAAA**-**GCG**TTAAA**GCTC**AAACATACTTATATCC-----CCTT---ATCCT
Dmve C--ATA**GAAA**-**GCG**TTAAA**GCTC**AAACATACC-TGCCCC-----CCCCCAATTCT
Dmar --AGCA**GAAA**-**GCG**TTAAA**GCTC**AGACATA--CTCACAC---CTCCCCAA-TCCC
Anka --AACC**GAAA**-**GCG**TTAAA**GCTC**AAACA----TAATGAC----TCACCCCCAATTCT
Moja --AATA**GAAA**-**GCG**TTAAA**GCTC**AAACATAATCA--CCT----A--CCCCTTATACC
Hoja --AACA**GAAA**-**GCG**TTAAA**GCTC**AAACATACTTA--AT-----AACCCCTTATACT
Bede A--ACA**GAAA**-**GCG**TTAAA**GCTC**AGGCA--CATCTACC----AACCCCATATTCT
Besp --AACA**GAAA**-**GCG**TTAAA**GCTC**AGACACAC---CTAC----CAACCCCATATTCT
Mysp --AATA**GAAA**-**GCG**TTAAA**GCTC**GGACATATCT--ACCA----CAACCTTATATACT
Osja A--ACA**GAAA**-**GCG**TTAAA**GCTC**AGAC---ATAGCCCT-----TAAATCAACCTT
Sgro --AATA**GAAA**-**GCG**TTAAA**GCTC**AGAC--ATAGCTCTTACTTCAACCCCCAGATATT
Pzpa A--ACA**GAAA**-**GCG**TCAAA**GCTA**AAA--TAAATAAATCA-----TCCCTATCTAAC
Zeja A--AGA**AAAA**-**GCG**TTAAA**GCTC**AAATA----AAAATA-----CTCCTTTTATTAC
Zne A--TTA**TAAA**-**GCG**TTAAA**GCTA**AAAGTAAA--CTAAA-----TTCCTTTTATACT
Zefa --GTCA**TAAA**-**GCG**TTAAA**GCTA**GAATAAAATA---AAC----ATTCCTTTTATAAT
Acni --AATA**GAAA**-**GCG**TTAAA**GCTA**AAATAAA--TCTAACT----ACTCCTTTTATAAT
Ncrh --AATA**GAAA**-**GCG**TTAAA**GCTA**AAATAAACCTATTAC-----TCCTT--TTATAAT
Agca C--ATA**GAAA**-**GCG**TTAAA**GCTC**AAACATCCCTACCGTC-----CCCTCCCTATCCC
Hydy --TGAA**GAAA**-**GCG**TCA**GCTC**AAAGTACT--CTACTTA----AACCCCTTATTCT
Gsac C--TAA**GAAA**-**GCG**TCAAA**GCTC**AAAGTACC-CTACTTAA-----ATCCTCTTATCCT
Pevo --CGAA**GAAA**-**GCG**TTAAA**GCTC**GTGCAT---CTAAC-----TGCCAT-CAATACT
Hiku --GATA**GAAA**-**GCG**TTAAA**GCTC**AAAGCAC---TA--TTT----AACTTTTAAATTCA
Inpa C--CCA**GACA**-**GCG**TTACA**GCTC**AAAGT--GTT---ATCAC----AACCCCGATCCC
Auch T--AA**GAAA**-**GCG**TTGA**GCTC**AGATC---GGCAAATA-----TGCTAAAATACG
Fico --AGTA**GAAA**-**GCG**TTAAA**GCTC**AAAGCATTCCC---TTC----GCCTCT--AATCAA
MacS T--ATA**GAAA**-**GCG**TTAAA**GCTC**AGACATAAA-----CCC----ATCCTTTTATTCC
Moal T--ATA**GAAA**-**GCG**TCAAA**GCTC**AAATACCCCT---TC-----CACCCCTTATTAC
Syma A--ACA**GAAA**-**GCG**TCAAA**GCTC**GTATAA--CACAATCA-----ACCTATTATCCT
Mafr --AATA**GAAA**-**GCG**TTAAA**GCTC**AGACA---TAA--CTT----TCTCCTTATCCT
Dcpe --TAGT**AAAA**-**GCG**TTCAA**GCTT**AAACTCA---CCCTT-----CGCTTA-TAATCCG
Dcti --TAGT**AAAA**-**GCG**TCCA**GCTT**AAACTCATCCCT--A-----ACTTA--TAATAAG
Hehi A--ATA**GAAA**-**GCG**TTATA**GCTC**AAATAC--ATCACTAC-----CCCTCTCTATCCT
Stam T--ACA**GAAA**-**GCG**TTAAA**GCTC**AGACATATAGTAAAC-----CCTACTTATAAT
Hogi --AATA**GAAA**-**GCG**TTACA**GCTC**GAGTA-----TTAATT----ACTCCTTTTATACT
Erzo T--ATA**GAAA**-**GCG**TTAAA**GCTC**AGATATAAACCT--A-----TCCTTCTTATCCT
Hxot C--TTA**GAAA**-**GCG**TTAAA**GCTC**AGACATGCGACC---A-----TACTTCTTATCCT
Core --CTTA**GAAA**-**GCG**TTAAA**GCTC**GAACATATACCCGCC-----CCTTC--TTATTCT
Apve --CTTA**GAAA**-**GCG**TTAAA**GCTC**TAGCATATTCCCAAC-----CCTTCTTATTCT
Latj C--ATA**GAAA**-**GCG**TTAAA**GCTC**AGACATA---CCCTTT----CGCCCCATATTCC
Laja --TCTA**GAAA**-**GCG**TTAAA**GCTC**AAACATACCCCC-TA-----TCCTA--TTATCCC

Syja --TTTAA**GAAA**-**GCGTTAAA****GCTC**GAAC-----ACACTCT----TTTCCTCTTATCCC
 Epme A--TCA**AAA**-**GCGTTAAA****GCTC**AGACACCTAATCCCATA----AGCCCCAAGTCCC
 Grse C--ATA**GAAA**-**GCGTTACA****GCTC**AAACA--CTCTTCTA-----GCCCTAAATCCC
 Clja --TAAA**GAAA**-**GCGTTAAA****GCTC**AAATTAATAAACTA-----CCCCT--CTATAAC
 Ogcy --TAAG**GAAA**-**GCGTTAAA****GCTC**AGACGACCAAACCCC-----CACCCAAAAATTC
 Plna --CTAA**GAAA**-**GCGTTAAA****GCTC**GAATATATAC--CACC-----CCTTAAATCCC
 Lema --CTTA**GAAA**-**GCGTTAAA****GCTC**AGACATCACACTA-----AGCTCTCTATTCT
 Etzo --CGTA**GAAA**-**GCGTTAAA****GCTC**AAATATTCAACT--A-----CCCC--TTATTTG
 Apse --AGCA**GAAA**-**GCGTTAAA****GCTC**AAACACC----TCCC-----CGCC--CTATTAT
 Epde T--ATA**GAAA**-**GCGTTAAA****GCTC**AGACATATC-ACTTAC-----CCTTTCA-TCCT
 Slja --TACG**AAA**-**GCGTTAAA****GCTT**AAACATGATAG--CCC-----CCTAAAATAAC
 Bsja --TACA**GAAA**-**GCGTTAAA****GCTC**GGGCATACTAC-CCGC----CTCCTCCCTATATT
 Ecna A--ATA**GAAA**-**GCGTTATA****GCTC**AGACATAAA--ATTCTA----AACCTTAAATCAA
 Cohi A--A-AG**AAA**-**GCGTTAAA****GCTC**AGATAC--ACAAAA-----ACTATTTATTTA
 Caar --ACA**GAAA**-**GCGTTAAA****GCTC**AAACGTCCCC--AAC----CTCCCTATA-TCCT
 Came A--ACA**GAAA**-**GCGTTAAA****GCTC**AGACATA-ATACTCCC-----TCCCTATATCCT
 Mema T--ATA**GAAA**-**GCGTTACA****GCTC**AAAGCATTTC--CCAC-----GCCATT-ATACC
 Lenu --AAA**GAAA**-**GCGTTATA****GCTC**AAC-ACCCCTT--T-----CCCACAAATTAC
 Brja --CATA**GAAA**-**GCGTTAAA****GCTC**AAGCA--TTAA--ACC----TGCCACCTATTCA
 Plma C--ATA**GAAA**-**GCGTTAAA****GCTC**AAG--CATTAAACCTC-----CCCAAATATTTA
 Emst --TATA**GAAA**-**GCGTTAAA****GCTC**AGACATA--TCACCTA----CCCCTCCCATCCT
 Ptti --TATA**GAAA**-**GCGTTAAA****GCTC**AAACATAACC--CCA----CCCCTCCCATTCT
 Losu --TATA**AAA**-**GCGTTAAA****GCTT**AAACA--TCAA--CCC----AACCTAATTATTCC
 Geoy C--TAG**AAA**-**GCGTTATA****GCTC**AGAC---ATCCTTCT-----TACCTATAATCCC
 Dipi C--CCA**GAAA**-**GCGTTAAA****GCTC**AAACAT--ACAACCAC-----CCCTCCCTATCCT
 Pama T--TCA**GAAA**-**GCGTTAAA****GCTC**AGGTGCACC--CAACC----TTCCGTGATCCC
 Leob --GTTA**GAAA**-**GCGTTAAA****GCTC**CAATATATTC---TCA---ACTCCTTAGATCCC
 Neba T--AAT**GATA**-**GCGTTACA****GCTC**AAATATGCCCCT---C----CCTTAAAATTAG
 Pdpi --CAC**GAAA**-**GCGTTAA****GCTC**GTACAAA---CCCCA-----CTCCTT-TAATTCC
 Nimi T--ATA**GAA**-**GCGTTAAA****GCTC**AAATAT---AATTACC-----ACCCCTAATCCT
 Uptr --ATT**GAAA**-**GCGTTAAA****CCTC**GGACATA--CCGACA-----CACCTA-TTATCCG
 Pesc --CAC**GAAA**-**GCGTTAAA****GCTC**AGACATCCTAC-CAA---CCCCTATT---ATCCC
 Baar A--ACA**GAAA**-**GCGTTAAA****GCTC**AGACATACCCCTACCC-----TCTC---ATCCC
 Moar T--ACA**GAAA**-**GCGTTAAA****GCTC**AGACATACTATTACCC---CTCCTT---ATCCC
 Toja --TAAA**GAAA**-**GCGTTAAA****GCTC**GAAC--ATAACTC-----CCTCCCCAATACT
 Chau C--ATA**GAAA**-**GCGTTAAA****GCTC**AGACTAATT---ACGCC---GCCTCATAATTCC
 Chse --TATA**GAAA**-**GCGTTAAA****GCTC**AGACATA---CCTCT---TCTCCCCCTATTCC
 Enar --CATA**GAAA**-**GCGTTAAA****GCTC**AGAC-----ATATCAA---ATCCCTCTTATCCT
 Hpty --TATA**GAAA**-**GCGTTAAA****GCTC**AGACATACCGC-TA---CCCCTCTC---ATCCT
 Nana A--ATA**GAAA**-**GCGTTAAA****GCTC**AAAGTACTAATT-TA---CAAGCCTATT-ATCCT
 Mcst ---ATA**GAAA**-**GCGTTAAA****GCTC**AGACATA--CTACCCT---ACCCTATT-ATCCC
 Rhox --AATA**GAAA**-**GCGTTAAA****GCTC**AGACATACCC---CC---TATCCTTTTATCCT
 Opfa G--ACA**GAAA**-**GCGTTAAA****GCTC**GGACATACC---ACAC---ACCCTCTAATCCT
 Paar A--ATA**GAAA**-**GCGTTAAA****GCTC**AAAT--TTTCCCCTC-----ACTTCTTATT-CT
 Gozo C--ATA**GAAA**-**GCGTCAA****GCTC**CAACATA-----CCCC---TACCTCACATCCC
 Ackr ---CA**GAAA**-**GCGTTACA****GCTC**AGATACCATTTTT-A-----ATCAC--ATATCCC
 Elev T--ATA**GAAA**-**GCGTTACA****GCTC**CTACAC--AGTCCTAA-----T-CCTACGATCCT
 Trdu --ACCA**GAAA**-**GCGTTAAA****GCTC**GAGCATT---ACCT-----AGCCAA-CC-TTCT
 Amoc T--ACG**GAAA**-**GCGTTAA****GCTC**AAAGACTTAC---AACAC---C-CCCAAATACC
 Hame --AGTA**AAA**-**GCGTTACA****GCTT**AAATTTCAA---ATT---TGACCTTAGATACC
 Chso T--AAT**GAAA**-**GCGTTACA****GCTC**AAACACCCTCCACCAC-----CCGCAGAT--CCC
 Lyto C--TCA**GAAA**-**GCGTTAAA****GCTC**AAATAT--AATACGGA-----CCTTCTTATTCT

Encr --CTTA**GAAA**-**GCG**TTAAA**GCTC**GGATATACCA---TCA----ACCCTTCTTATTCT
 Bvar -CTAAA**GAAA**-**GCG**TCTTA**GCTC**-AGAATAACCTTGCCC----CGCTCTAAATGCC
 Noco C-TAAA**GAAA**-**GCG**TCTAA**GCTC**GAAACAAT-CTTGCCC----CTCCCCCAATCCT
 Chsp --AACA**AACA**-**GCG**TTAAA**GCTT**AAATATAAATG---T-----CCCC--CAATCCT
 Arja --CGTA**GAAA**-**GCG**TTAAA**GCTC**AGGTATGCTA--CTTA----AACCTTCTTATTTT
 Pase T-GTAA**GAAA**-**GCG**TTAAA**GCTC**AAACATGCC---TACC----CTCCCCAATCTC
 Trel T-AAGA**GAAA**-**GCG**TTACA**GCTC**AGTTACACCTG--CCC----CTTCCCCCTATTAG
 Lifa --AAAT**GAAA**-**GCG**TCAAA**GCTC**AAGCATAAGA----A-----TAGCTCTAATTCC
 Acur C--CA**GAAA**-**GCG**TTTAA**GCTC**GTTCAATTAT---ACCTC----A**ACTCG**TAATTTCC
 Ampe --TACA**GAAA**-**GCG**TTAAA**GCTC**AGATATACTAAATAA---CCCTCCCT---ATCCT
 Urja --CCCA**GAGG**-**GCG**TTAAA**GCTC**AAACAC-----CTCCC----CGCCCCATATTCT
 Enet A--TCA**GAAA**-**GCG**TTAAA**GCTC**AAAGTG----TTCCTAG-----CGCTTGGATACT
 Ptbr T--AAA**AAAA**-**GCG**TTAAA**GCTT**AAGT----ATTAATTC-----AACCTATAATTCC
 Safa --AACA**AAAA**-**GCG**TTAAA**GCTT**GAGTACCCCTA--A-----CGCCAATAATTTT
 Icae --TATA**GAAA**-**GCG**TTAAA**GCTC**AAGCATTAAACCTCA---CCCATAT---ATTCA
 Asmi --CTTC**AAAA**-**GCG**TTAAA**GCTC**AAGCA-AATATTA-----CACCTATAATTTA
 Foal ----TA**GAAA**-**GCG**TTACA**GCTC**TTATATAATTTTAAA-----CCCTTA---ATACT
 Drze --TAAA**GAAA**-**GCG**TCATA**GCTC**GCATACATAGAATTA--AGCCCTTT---ATACC
 Rhas --AATA**GAAA**-**GCG**TTAAA**GCTC**AAACATATCCCTCTG----CCCCT---TATCCC
 Elac T--AAA**GAAA**-**GCG**TTAAA**GCTT**AAATGTCT-GCCACCC----CCCCCCCCATCAC
 Kugu --AAA**GAAA**-**GCG**TTAAA**GCTC**AAAC-----AGATACA---CCACTATTTCTCCC
 Plor --CAAA**GAAA**-**GCG**TTAAA**GCTC**AGACATACCTCC-----GCCCGATATCCC
 Sgun T--GT**GAAA**-**GCG**TTAAA**GCTC**AAACAC--ATACCTC-----CCCTAT-TATCCT
 Zaco T--ACA**GAAA**-**GCG**TTAAA**GCTC**AGACATA-CCCTACC-----CCCT-TAAATCCT
 Zbfl --CACA**GAAA**-**GCG**TTAAA**GCTC**AGACATAGCCATACC----ACCTA--TAATTCT
 Spba A--ATA**GAAA**-**GCG**TTAAA**GCTC**AAAC--ATACAATTA-----ATTCTATAATACC
 Game A--ATA**GAAA**-**GCG**TTAAA**GCTC**AAGCATTAA--ACCTC----ACCCATATATTTA
 Thth T--ACA**GAAA**-**GCG**TTAAA**GCTC**AAGCA--TTACACCT-----TCCCACATATTCA
 Xigl C--GCA**GAAA**-**GCG**TTAAA**GCTC**GGACATACC-TTACCT-----CCCTATA-TACT
 Hyja A--ACA**GAAA**-**GCG**TTCAA**GCTC**AAGCAT-TTAACTTA-----CCCATATATCTC
 Psan --AACA**GAAA**-**GCG**TTCAA**GCTC**AAGCATC--TAACCTT----ACCCATAT-ATTCC
 Cupa --TACA**GAAA**-**GCG**TTAAA**GCTC**AAGCATTAAACCTT----ACCCAT-ATATTCA
 Mpch ---CAA**GAAA**-**GCG**TTAAA**GCTC**AGACACA--CCCCCTC----A-TCCATTAATTCA
 Char A--ACA**GAAA**-**GCG**TTAAA**GCTC**AGACATATTAATAACC-----CCTATA-ATCCG
 Pser --AATA**GAAA**-**GCG**TTCAA**GCTC**AGACATCCCC--TTCC----CCA---AAAATCCC
 Prol --AACA**GAAA**-**GCG**TTAAA**GCTC**AGACATAGACACCTC---CATAT-----ATACC
 Plbi --AACA**GAAA**-**GCG**TTAAA**GCTC**AGACAT--GAAGCCC-----TCCC--GTTATACC
 Calu --AGCA**GAAA**-**GCG**TTAAA**GCTC**AAGCG--CAA---CAT----AACCATAAATCTC
 Papa C-TTAC**AAAA**-**GCG**TAGTA**GCTC**AAACAACAACCTACCA----AAACCATAAATTA
 Suf r A--ACT**GAAA**-**GCG**TTAAA**GCTC**GAACATTT-TAC-----TTCCCC-CAATCCC
 Stci --TAAA**GAAA**-**GCG**TTAAA**GCTC**AAATAT-----TGCTC----TTCCATAAATTC
 Taru ----AA**GAAA**-**GCG**TTAAA**GCTC**TAGCAC----ATCCCT-----GCCACAAATACC
 Rala --AATA**GAAA**-**GCG**TTAAA**GCTC**AAACATTATTA--A-----ACCTAATTATCCC

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		20'	15'	24
Scca	--GATATT-----TATTCAAAAAC	CCCCCT	TAAC---C--CTAT	TGGGT TAT TTTAT ATA
Muma	--GATATT-----TA-CTCATAAC	CCCCCT	TT--ATCC---TAT	TGGGT TAT TTTAT A-A
Erca	--GATAAA-----ACCT-CTAAAT	CCCCCT	ATA--CA----TAT	TGAGT TAC TCTAT -TA
Pose	--GATAAA-----CCC-TCTAAAT	CCCCCT	ATAAA-----TAT	CAAGT TAC TCTAT --T
Actr	--GATAAA-----ACAATCACAAT	CCCCCT	A-AACC-----TAC	AGAGC CCG TCTAT AT-
Scal	--GATAAA-----ACGATCACAAT	CCCCCT	AA---A-C--CTAC	AGAGC CGC TCTAT ACA
Posp	--GATAAA-----ACAATCACAAT	CCCCCT	AAC---T----TAC	TGAGC TAC TCTAT ACA
Atsp	--GACAAA-----CACATCTGACT	CCTCC	TAA--TAG---TAC	TAAGC TAC TCTAT TT-
Leoc	--GACAAA-----TACATCTGACT	CCTCC	TAAT--AC---TAC	TAAGC TAC TCTAT T--
Amca	--GAT-AA-----CCAATCTCACT	CCCCCT	CTAAC-----TAC	TAAGC TGT TCTAT A--
Osbi	--GACAAT-----TA-ATCTCACC	CCTCC	AACAT-----TAT	CAAGC TAT TCTAT ACT
Pabu	--AATAAA-----AATCTCCAACC	CCACT	AAA---AA---TAT	TAAGC CGC CCTAT G-T
Hial	--GATAAT-----AA-ATCCTACT	CCTCT	AAAA--G----TAC	TAAGC CAC TCTAT AC-
Elha	--GATACC-----CGGTCCA-ACT	CCCCCT	AAG---AA---TAC	TAAGC CAT TCTAT GC-
Mlcy	--GATAAA-----ACATCCCCT	CCCCCT	AACA-----ACAC	TAAGC CAT TCTAT GC-
Algl	--GATTAT-----TTT-TCCTAGT	CCCCCT	AAA---CA---TAC	TAAGC TAT TCTAT GT-
Ptgi	--GATAAC-----CCAT-CCTACT	CCCCCT	AAAA--A----TAC	TAAGC CAT TCTAT GCC
Alaf	--GATAAA-----A-AATCATATT	CCCCCT	TAA---TA---TAC	TAAGC CGT TCTAT GCT
Nock	--GACAAT-----AAA-TCCCAAT	CCCCCT	AATT--T----TAC	TAAGC CAT TCTAT GC-
Anja	--GACAAT-----ACACTCCCCAC	CCCCCT	AAAA--A----TAT	TAAGC TAT CCTAT GCA
Gyki	--AATAAC-----TAAGCCACACC	CCCCCA	AAA--A----ATAC	TGAGC CCC CCCAT GA-
Syka	--GATAAA-----TTTCTCCCCAC	CCCCCT	A-AAAA-----TAT	TAAGC CAT CCTAT G-C
Opma	--GATAAC-----ATAATCCTAAT	CCCCCT	ATA--A---ATAT	TAAGC CAC TCTAT GTA
Comy	--AATAAC-----C-ACTCCTAAT	TTCCCT	AATAA-----TAT	TAAGC TAC CCTAT TT-
Sasp	--GATTTT-----TAACCTCAAAC	CCCCCA	AGTAA-----TAT	TAGGC CTC ACTAT ACT
Eupe	--GATAAA-----TTCTCTTTA-T	CCCCCA	AAAAA-----TAT	TAAGC TAC TCCAT TT-
Enja	--ATCTTA-----AT--ATCTGCT	CCCCCT	AAACCT-----TAT	TGGGC CTC TCCAT GCA
Same	--ATTA AAA-----A-TCTCAAAG	CCCCCT	AA---TAT---TAT	TGGGC CGC CCTAT G-C
Chch	--GCTATA-----CCACCCCCAC	CCCCCT	A---ATTT---TAC	CGGGC CAT TTTAT GCC
Grgr	--GATA-C-----CACCCCCCACC	CCCCCT	AGTT--T----TAC	TGGGC CGC CCCAT GCC
Caau	--GAT-AA-----TATATCTCACT	CCCCCT	A--AATAC---TAT	TAGGC CAA CCCAT GCC
Cyca	--GATAAA-----A-AATCTTACT	CCCCCT	AAGT--AC---TAT	TAGGC CAA CCCAT GCC
Dare	--GACAAT-----AATATCTTACT	TCCCT	AAAA-----ATAC	CAGAC TAA TCCAT AC-
Cost	--AATAAA-----ATA-TCCCCT	CCCCCT	AA-A--CG---TAT	TAGGC CAC TCCAT GAT
Leec	--GATAA-----ACAACCCCCT	CCCCCT	TA-T--AT---TAT	TAGGC CAT TCCAT GC-
CrIa	--GATAAA-----CAATCCCCT	CCCCCT	AAAA--T----TAC	CAGAC TAT TCCAT GCC
Clmc	--GATACT-----CCCATCCTAAA	CCCCCT	CCAA--AA---TAC	TAGGC CAC TCCAT GC-
Phin	--AG-CAT-----TACCTCTAATA	TCCCT	ACTT--A----TAT	TAGGC CTC TCCAT GAA
Icpu	--A-ATAT-----TTTATCTTAAA	CCCCCT	AATC--A---TAT	TAGGC CAA TCCAT GCC
Psto	--AATACA-----TT-ATCTAAAA	CCCCCT	A-AC--C--TTAT	TAGGC CAC TCCAT GCC
Cora	--AATACC-----CTAATCCAAAA	CCCCCT	AAT--AT---TAT	TAGGC CGC TCCAT GCC
Eisp	--GATAAC-----AA-ATCCAAAA	CCCCCT	AA-C--CA---CAT	TAGGC CTC TCCAT GCC
Apal	--GATATT-----A-TATCTTAAA	CCCCCT	A--ACCC---TAC	TAGGC CCT CCTAT GCT
EsLu	--GATAGA-----CATCCCAA	CCCCCT	AATAT-----TAT	TAAGC CCT TCCAT TC-
Dape	--GATAAA-----CTAATCCTAA	CCCCCT	AAAAA-----TAT	TAAGC CCT TCCAT C-C
Glse	--GATAA-----A--CTCTCAA	CCCCCT	TTTTTT-----TAT	TAAGC CAC CCCAT GCC
Naar	--GATACT-----T--ATTCTTAC	CCCCCT	AATC-----TTAC	TAAGC CGC CCCAT GCC
Baoc	--GATATT-----AATT-CTTAC	CCCCCT	AATCT-----TAC	TAAGC CGC CCCAT GCC
Opso	--GATAA-----ATG-CTCCCAC	CCCCCT	AACTT-----TAC	TAAGC CAC CCCAT GCC
Alte	--GATAAC-----CAACCCCAAC	CCCCCT	AATAG-----TAT	TAGGC CGC CCTAT GCC
Plap	--GATAGC-----C-ACCCCAAC	CCCCCT	AA-TAT-----TAC	TAGGC CGC CCTAT GCC

Plal --GAT--A-----ACCTTTCCTCCA**CCCC**AGTTT-----TAC**CGAAG**CAT**CCCAT**GCC
 Sami --GATAAC-----C-TCTCCCCCA**CCCC**AATTT-----TAC**TAAAC**CGC**CCCAT**GCC
 Rere --GATAGA-----GTTTTCTAC**CCCC**ACTAT-----TAC**TGAGC**CAT**CCCAG**GC-
 Gama --GATAAA-----TAGTCTTAC**CCCC**AAGTT-----TAA**TAGAC**CGT**CCCAG**ATT
 Onmy --GATAAG-----AAATCCCACC**CCCC**AACCG-----TAC**TAAGC**CGT**TCCAT**G-C
 Sasa --GATAAA-----AAATCCTACC**CCCC**AACCG-----TAC**TAAGC**CGT**TCCAT**GCT
 Cola --GATAAG-----AAATCCTAC**CCCC**AACCG-----TAC**TAAGC**CGT**TCCAT**GCC
 Dita --GATAAA-----A-AGTCCCA**CCCC**TTCCAC-----CAC**CAAGC**CCC**CCTAT**GCA
 Gogr --G-TTGT-----AGCCCCCAT**CCCC**AACCC-CCCCCAC**TAAGC**CAT**TTTAT**GCC
 Chsl --GCCAG-----TAATTCTAA**CCCC**AACCAC-----TAC**TAAGC**CAC**CCCAT**GTT
 Atja --GAT-AA-----AACATCTTAA**CCCC**ATA--AC--TAT**TAGAC**CAC**CCCAT**GCA
 lido --GATAAA-----ACATCTTAA**CCCC**ATAAC-----TAT**TAGAC**CAT**CCCAT**GCA
 Auja --GA-CAA-----AAAATCTTACA**CCCC**AACTAG-----TAC**TAGGC**CAC**TTTAT**GCC
 Chag --GGTATA-----ATTTTCTTATT**CCCC**GCATTC-----TAC**TAGGC**CAT**TTTAT**G-C
 Hami --GATAAA-----TTA--TCTTTT**CCCC**TAAAT-----TAT**TAGGC**CAT**TCCAT**G-C
 Saun --GATAAT-----TAATCTTTT**CCCC**TGCAT-----TAA**TAGGC**TAT**CCCAT**GCC
 Nema --GA-ACC-----AAACTCTAAACT**CCCC**CCCC-----TAC**CAGGC**CGT**TCCAT**GCA
 Disp --GA-ACC-----AAGCTCCACACT**CCCC**CCC--A--CTAT**CAGAC**CCT**CCCAT**AAG
 Myaf --GAACAC-----AACTCTTCAGT**CCCC**TTCCAC-----TAT**TAAAC**CCT**CCCAT**CA-
 Lagu --AATCAA-----CCAGTCAAGCC**CCCC**CCTAA-----TAC**TAAGC**TAT**TCTAC**CCA
 Trtr --GAACAC-----CCG-TTTTATT**CCCC**AATCC-----TAC**TAGAT**CAC**TCTAT**T--
 Zucr --GATTAT-----ATGTTTTACT**CCCC**TAAC-----TTAC**TAGAT**CAC**TCTAT**TT-
 Pxja --GTTATC-----ATA-TCTTCT**CCCC**TAAATA-----TAT**CAGGC**CGC**CTCAT**G--
 Pxlo --GTTATC-----ATA-TCTTCT**CCCC**TAAATA-----TAT**CAGGC**CGC**CTCAT**GCA
 Pctr --GATAGA-----A-AATCTTTAT**CCCC**A--CAAC-----TAC**CCGGC**CTC**CCCAG**GCA
 Apsa --GACA-A-----CCAATCTTCAA**CCCC**AACAA-----TAT**CAGGC**CGC**CCTAT**GCC
 Cabe --GATAGC-----TCAATCCCAAC**CCCC**AACCC-----TAC**CAGAC**CAT**TATGT**A-C
 Bzze --GATAAT-----ACCATCTAAAC**CCCC**ACCTA-----TAC**AAGGC**CTT**CTCAT**A-C
 Siim --GATAAC-----CCAATCTTACC**CCCC**GCCCC-----TAC**CAGGC**CTT**CTCAT**--T
 Ctru --GACAAC-----CTCTTCTTAA**CCCC**TCACCC-----TAT**TGAGC**CCC**TCCAG**ATC
 Dpbr --GACAAC-----TTAATCTTAA**CCCC**A-ACCCC--TAT**TGGGC**CCC**TCCAT**A-C
 Caki --GATATA-----TATCTTTCCCC**CCCC**GCTACT-----TAA**TAGGC**TAT**CTTAT**GCC
 Phja --GATAAA-----AAATCTCCCTC**CCCC**TA-ATC-----TAC**CAGGC**TGT**CTTAT**GCT
 Brsp --AACCTC-----CCTCTCTTTTA**CCCC**AAAAA-----TAT**CAGAC**TAA**TTTAT**TT-
 Gamo --TGATAT-----TACATCTCCCT**CCCC**CCCCT-----TAC**CAGGC**TGT**CTTAT**GCC
 Lolo --GATATT-----ATA-TCTCCCT**CCCC**CT-CTC-----TAC**CAGGC**TGT**CTTAT**GCC
 Batr --GATATC-----ACACACCAAAA**CCCC**AACCC-----CAT**TGAGC**CCC**ATCAC**ACT
 Prmy --GATCCA-----TTAACTTAGT**CCCC**AACT-----TAT**TGGGC**CCT**ACTAT**CT-
 Loli --AA-AAC-----TTAATCTGAAC**CCCC**AAAGAC-----TAC**CAGGC**AGC**CCTAT**TCA
 Loam --GACAAC-----ATAATCTTAA**CCCC**AA-AAC-----TAC**CAGGA**AGC**CCTAT**GCG
 Chab --ACAAT-----TATTTCTTATT**CCCC**G-TAC-----ATAC**CAGGC**CCT**CCCAT**GC-
 Chto --ACAAT-----TATTTCTTATT**CCCC**GTACA-----TAC**CAGGC**CCT**CCCAT**GCA
 Majo --GATAAT-----TACATCCCATC**CCCC**AAT--T--CTAC**CCGGC**CGC**CCCAT**ACC
 Hlst --GATAAT-----C-AACTTACT**CCCC**AACCT-----TAC**CCGGC**CTC**TCCAT**GC-
 Clpe --CCTAAT-----TTGATCTGATT**CCCC**C--AACA-----TAC**CAGGC**CTT**CCCAT**GCT
 Mlmr --GACAAT-----TTAATCTTATT**CCCC**AAAT-----ATAC**CAGGC**CCT**TCCAT**GC-
 Cr cr --GATAAC-----AAG-TCTTAGC**CCCC**AA-CCA-----TAT**CAAGC**CGC**TCCAT**CAA
 Muce --GATAAC-----AAGT-CTTAGC**CCCC**AACCA-----TAT**CAAGC**CGC**TCCAT**CGA
 Bege --GAT-AT-----TCTATCCTACT**CCCC**AACCC-----TAT**CAGGT**CCT**CCCAT**AT-
 Mela --GATTTT-----AGCCTCCTACT**CCCC**TTCTCC-----TAT**CAGGT**TTT**CCCAT**ATC
 Hats --GATTAT-----TTT-TCCAAC**CCCC**AACCC-----TAT**CAGGT**CTT**CCTAT**AAT
 Or la --GATAAC-----TTAATTTGAAG**CCCC**TATA-----TTAA**CGAGC**TAT**TTTAT**AT-

Cosa --AATAAC-----TTACTCTTACA**CCTCT**TTAAAACC---TAC**CAGGC**CTT**TCTAT**AAA
Exsp --GATCAA-----CCAATTTTACA**CCCCT**A--ATTC----TAA**CAGGC**CTT**TCTAT**TTT
Depa --AGTAAA-----CAAATCTCAAAC**CCCTT**AAT--T-----TAT**CAGAA**TTT**TCCAC**TAA
Rima --GCCTAT-----AAGATTTTATTC**CCCTT**GATT-----TAT**TAGGC**TAT**TTTAT**TAA
Fuol --ACAAT-----AA-ATTATAAG**CCGCT**AGAA-T----TTAC**CAGGC**CCT**CCTAT**-TT
Gmaf --GATAAC-----ATAATAATATT**CCCTC**GACAA-----TAC**CAGGC**CTT**TCTAT**CTT
Xeei --GAT-AA-----CAAATTATATT**CCCCT**T--AAACC---TAC**CAGGC**CAT**TCTAT**TTT
Pros --GACTGA-----CATATCTCAGC**CCCCT**AATCCT-----AC**TAGGC**CCT**CCCAT**GCC
Scmi --GACAAA-----TATATCTTAA**CCCCT**AATCC-----TAT**TGGGC**CCT**CCCAT**GC-
Rolo --GATAAA-----TAATCTAAAC**CCCCT**A-AA-C----CTAC**TAGGT**CCT**CTCAT**GCA
Cere --GATTAT-----TTA-TCCCACC**CCCCT**AACCC-----CAC**TAGGA**CCT**CCTAT**G-C
Daga --GATTAT-----ATTTCCAACC**CCCCT**GCCCC-----ACAC**CAGGA**CCT**CTCAT**GC-
Anco --GATAAC-----CA-ATCTTAA**CCCCT**GACCCAG----TAT**TAGGC**CTC**CTCAT**GCA
Dmve --GATAA-----ACAATCTAAAT**CCCCG**ACCCGA-----TAT**TAGGC**CCC**CTCAT**GCA
Dmar --GATAAA-----AA-ATCTAAAT**CCCCA**ACCTGA----TAT**TAGGC**CCC**CTCAT**GC-
Anka --GATAAC-----TA-ATCTAAA**CCCCT**ACCACA-----TAC**TAGGC**CTC**CTCAT**GC-
Moja --GATAAA-----TA-ATCTAAAC**CCCCT**ACCCACAA--TAT**TAGGC**CTC**CTCAT**G-C
Hoja --GATAAA-----TAAT-CTAAAC**CCCCT**A-ACCGAA--TAT**TAGGC**CTC**CTCAT**G-C
Bede --GATTAA-----TCA-TCTAAAC**CCCCT**AA-TCC----TAT**TAGGC**CCT**CCCAT**GCA
Besp --GATTAA-----TCA-TCTAAAC**CCCCT**AATCC-----TAC**TAGGC**CCT**CCCAT**GCA
Mysp --GATAAA-----CAAATCTTAA**CCCCT**C--TCCT---TAC**CAGGC**CCA**TCCAT**GCA
Osja --ATATAATGATACAAAATCTTAA**CCCCT**ACCAA-----TAC**CAGGC**CCA**TCCAT**GCA
Sgro --GATACA-----TAAATCTTACA**CCCCT**AACCC-----GTAT**CAGGC**CTA**CCCAT**GC-
Pzpa --GTTAAT-----A-AATCTTACA**CCCCT**AATAC-----TAT**TAGGC**CAT**CTCAT**GCC
Zeja --GTTAAT-----A-AATTTTTTA**CCTCT**GATGTC----TAT**CAGGC**CTT**CTCAT**GCT
Znne --G-TTAT-----TAAATCTCTCA**CCTCT**ATATT-----TAT**CAAAC**CAT**CTCAT**GC-
Zefa --GTTACT-----AAA-TCTCCCA**CCTCT**GTAGT-----TAT**CAAAC**CAT**CTCAT**GCC
Acni --GTTAAT-----GA-ATCTCCCA**CCTCT**GATATT----TAT**CAGAC**CAT**CTCAT**GC-
Ncrh --GTTAAT-----GA-ATCTCCCA**CCTCT**GATA-T----TTAT**CAGGC**CAT**CTCAT**GCC
Agca --GATAAT-----AAAATCTTATT**CCCCT**AATTT-----TAC**TAGGC**CAT**CCCAT**GAT
Hydy --GATCAC-----CTAATCTTATC**CCCCT**AA-TTA----TAC**TGGGC**CTT**CCCAT**GC-
Gzac --GATCAC-----CAAATCTTATC**CCCCT**ATATA-----TAC**TGGAC**CAT**CCCAT**GCC
Pevo --AATAAA-----ACATCTCAAC**CCGTG**CAAAAAC---AG**CAGGC**TGT**TCTAT**TTA
Hiku --GATA-A-----ATATTCTAAA**CCCTT**A--AAAT---CAT**CAGGC**CTT**TTCTAT**--A
Inpa --AACATC-----TATACTTTAA**CCCCA**ACTC-----TAC**CAGGC**CCT**TCCAT**G-C
Auch --GATAAT-----TCAATCTTAA**CCCCT**AT-CAC----TAT**CAAGC**CGT**TCAAT**ACA
Fico --GATA-C-----AAAATCCTACT**CCCCT**AGATA-----TAT**TGGAC**CAT**CCCAT**TCC
MacS --GATATA-----ATAATCTCAAC**CCCCT**AAATA-----TAC**CAGGC**CGT**TCCAC**A-C
Moal --GATAGC-----CAA-TCTAACT**CCTCT**AATAC-----TAC**CAGGC**TTT**TTCTAT**GCC
Syma --GATAAT-----TATACCCCA**CCTCT**AACCC-----TAC**CAGGT**CTT**CTCAT**GCA
Maf r --AATAAC-----ACAATCTCAAT**CCCCT**AATAT-----TAC**CGGGC**TGC**TCCAT**GCA
Dcpe --GATAAA-----TATATCTCAAC**CCCCC**AACATT-----AC**CGGGC**CGC**CCCAT**ACA
Dct i --GATAAT-----AATATCTTAA**CCCCC**AGC-A----TTAC**CGGGC**CGC**CCCAT**ACA
Hehi --GATCAT-----TAATTCTTACT**CCCCC**CTTTCC----TAC**CGGGC**CAT**CCCAT**GCA
Stam --GATCAT-----AAAATCTTATA**CCCCT**AGTAC-----TAC**CAGGC**CGT**TCCAT**GCC
Hogi --GATCAC-----TTAGTCTTAA**CCCCT**ACATT-----TAC**TGGGC**CGT**CCCAT**GC-
Erzo --GATCAA-----ATAATCTTATC**CCCCT**ATACA-----TAC**TGAAC**CGC**CCCAT**GCC
Hxot --GATCAC-----TTAATCTTACC**CCCCT**AACCG-----TAC**TGGAC**CAT**CCCAT**GCC
Core --GATCCC-----CTTATCTTACC**CCCCT**AAACGT-----AC**TGGAC**CAT**CCCAT**GCC
Apve --GATCAA-----CAAATCTTACC**CCCCT**AATCG-----TAC**TGGAC**TAT**CCCAT**GCC
Lat j --GATAAC-----CCAATCTTAGC**CCCCT**A-ATCC----TAT**CAGGC**CGC**CCCAT**G-C
Laja --GATAAC-----CCAATCTTAGC**CCCCT**AGT--C----TTAC**CAGGC**CGC**TCCAT**ACA

Syja --GATAAT-----TTAATCTAAAC**CCCCT**AACACT-----TAC**CAGGC**CCT**CCCAG**AC-
 Epme --GACTAT-----CTTTTCTTACT**CCCCT**T-ATCC-----TAC**TGGGC**CGT**CCCAT**G-C
 Grse --GACCAC-----CCAATCTTACT**CCCCT**AACCC-----TAC**CGGGC**CGT**TCCAT**GCA
 Clja --GATAAC-----CCCTTCTAAAC**CCCCT**AGCTTT-----TAC**CGGAT**TTT**TCCAT**GCA
 Ogcy --AGATGA-----AAATTCTCAA**CCTCT**AATCTT-----AT**CGGAC**TAC**TCTAT**TCC
 Plna --GAC-A-----TAAACTCTTGCC**CCCCT**AATCC-----TAC**TAAGC**CGC**CCCAT**GCC
 Lema --GATAAT-----T-TACCTCACC**CCCCT**AACTC-----TAC**CAGAC**CGA**CCCAT**GC-
 Etzo --GATCAT-----AAAATCTTATC**CCCCT**AATTTT-----AC**CAGGC**CGT**CCCAT**GCA
 Apse --CCGGAT--CACATTAATCTTACC**CCCCT**AAACAT-----AC**TGAGC**CTT**CCCAT**ACA
 Epde --GATAAT-----TTAATCTTAAAC**CCCCT**AATCC-----TAC**CAGGC**CGT**CCCCT**GCA
 Slja --GATAAT-----TTTATCTTAAAC**CCCCT**A--GACCC---TAC**CAGGC**CGC**TCCAT**A-C
 Bsja --GATAAT-----TAAATCTTAA**CCCCT**ACTCC-----TAT**CAGGC**CGC**CCCAT**GCC
 Ecna --GATAAC-----A-ATTCTCAAC**CCCCT**A-ACCA-----TAA**CAGGC**CCT**CCCAT**G-C
 Cohi --GATAAG-----CCAATCTTAAAC**CCCCT**AGCCTT-----TAA**CAGGC**CGT**TCCAT**ACT
 Caar --GATATC-----CTAATCTTAA**CCCCT**A-ATAT-----TAC**CGGGC**CTC**CCCAT**G-C
 Came --GATACC-----ACAATCTTAA**CCCCT**AACA--T----TAC**CGAGC**CTC**CCCAT**GCA
 Mema --GATAAC-----CCAATCCAAC**CCCCT**AACC--T---TAC**CAGGC**CAT**CCTAT**G-C
 Lenu --GATAAT-----ACCATCTTTAT**CCCCT**A-ACAA-----TAA**AAGGC**CAT**TCCAC**C-C
 Brja --GATAAC-----A-CCTCCAAC**CCCCT**A--ACAC---TAC**CAGGC**CTT**CTCAT**GCA
 Plma --GATAAC-----CAAATCCCAGC**CCCCT**AACAT-----TAT**CAGGC**CGT**CTCAT**GCA
 Emst --GATAAT-----TTTATCTTAGC**CCCCT**CATCAT-----AC**CAGGC**CGT**CCTAT**GC-
 Ptti --GATAAT-----TTAATCTTAAAC**CCCCT**T--CAATC---TAC**CAGGC**CAT**CCCAT**GCA
 Losu --GACATT-----ATAATCTTAAAC**CCCCT**C--GCAC---TAT**CAGGC**CTT**CCCAT**GCA
 Geoy --ACCAAA-----ATAATCTTAA**CCCCT**AAATT-----TAT**TAGGC**CTT**CCCAT**GCC
 Dipi --GATAAT-----CTTATCTTAAAC**CCCCT**AGCC-C-----TAC**CAGGC**CGT**TCCAT**GCA
 Pama --GATAAT-----GCAATCTCATC**CCCCT**CTCAA-----TAT**CAGAC**TAT**CCACT**G--
 Leob --GACAAT-----CCTATCTTACC**CCACT**AAACC-----TAC**CAGGC**CGC**TCTAT**ACA
 Neba --GATAAA-----AATATCTTAA**CCCCT**TTAAT-----TAT**TAGGC**CAC**TCTAT**TAT
 Pdpi --GATAAT-----TTTATCTTATC**CCCCT**AACCTT-----AT**CAGGC**CGC**CCCAT**GCC
 Nimi --GACAAC-----CCCATCTTAAAC**CCCCT**AACCT-----TAC**CAGGC**CGT**CCCAT**GCA
 Uptr --GATAAT-----TATATCCCATC**CCCCT**AATTCT-----AC**CGGGC**CGC**CCCAT**ACC
 Pesc --GATAAA-----CTCCTCCAAC**CCCCT**AATT-----TTAC**CAGGC**CGT**CCCAT**AC-
 Baar --GACAAT-----TTAATCTTAAAC**CCCCT**AGTAT-----TAC**CAGGC**CGT**TCCAT**ACA
 Moar --GATAAG-----CCAATCTTATT**CCCCT**AATCC-----TAC**TAGGC**CGC**CCCAT**GCA
 Toja --GATAAC-----CAAATCTCAAC**CCCCT**AGTC-----TTAT**TAGGC**CTT**CCTAT**GC-
 Chau --GATAAT-----TTAATCTTAA**CCCCT**GACTT-----TAC**CAGGC**CTC**CCCAT**G-C
 Chse --GATAAC-----CCAGTCTTATC**CCCCT**GAATT-----TAT**CAGGC**CGC**CCCAT**GC-
 Enar --GATAAT-----AAAATCTTATT**CCCCT**AACCT-----TAC**CAGGC**CTT**CCCAT**GC-
 Hpty --GATAAT-----TTAATCTCAAC**CCCCT**AATC-----CTAC**CAGGC**CAT**CCCAT**GC-
 Nana --GATAAA-----ATATTCCAAC**CCTCT**AACCC-----CTAC**CAGGC**CAT**CCCAT**GC-
 Mcst --GATAAT-----TAAATCTTAAAC**CCCCT**CATCCT-----AC**CAGGC**CGT**CCCAT**GC-
 Rhox --GATAAC-----CTAATCTTAAAC**CCCCT**AGCCC-----TAC**CAGGC**CGC**CCCAT**GCC
 Opfa --GACAAT-----TAAATCCTAGC**CCCCT**AATCC-----TAC**CAGGC**CGC**CCCAT**G--
 Paar --GATATC-----ATAATCTTAA**CCCCT**GAAAT-----TAT**TGGGC**CGT**TTCAT**GCA
 Gozo --GATGAC-----CCAATCTTAAAC**CCCCT**A-ACCC-----TAC**CAGGC**CGC**CCCAT**G-C
 Ackr --GACACC-----CCTATCTTACC**CCTCT**AACCCT-----AC**TAGGC**CGT**CCCAT**ACC
 Elev --GATAAT-----ATAATCTTAA**CCCCT**ACCC--TAA**CAGGT**TAT**TCTAT**GCC
 Trdu --AATAAAGACAACACAATTTACC**CCCCT**AAGCCT-----AC**CAGGC**CGT**TCCAT**AAT
 Amoc --GACAAT-----TAA-TCTTAA**CCCCT**AAACC-----CAC**CGGGC**CGC**CCCAT**G-C
 Hame --GACAAT-----TAA-TTCTTAA**CCCCT**AAACC-----TAC**CAAGC**CAT**CCTAT**GCA
 Chso --GATAAT-----CCC-ATCTTAA**CCCCT**AACA-----TAC**CAGGC**CGC**CCCAT**GCC
 Lyto --GATCAC-----CACATCTTATC**CCCCT**AAACA-----TAA**TGAAC**CAC**CCCAT**GCA

Encr --GATCAC-----ATAATCTTATC**CCCCT**A--AACA----TAC**TGAAG**CAT**CCCAT**GCC
 Bvar --GATCAT-----CTAATCTTAGT**CCTCT**ACCTT-----TAC**TGGGT**CGT**CCTAT**GCA
 Noco --GATCAT-----TTAATCTTATC**CCCCT**AAACT-----TAT**TGAGC**CGT**CCCAT**GC-
 Chsp --GACCAC-----TCAACCCTAAC**CCTCC**TACCAT-----AC**TAGAC**TGT**TCCCT**GAC
 Arja --GATCAC-----CTAATCTTACC**CCCCT**A--AACA----TAC**TGGAC**CGT**CCCAT**GCC
 Pase --GATATA-----TACCTCTCAAT**TCCCT**TTAAT-----TAC**CAGGC**CTA**TCCAT**A-C
 Trel --GATT-A-----TATTTCTTCAG**CCCCC**A---ATTC---TAC**CGGGC**CCC**TCCAT**TCA
 Lifa --GATAAC-----TCACTCTTAAC**CCGCT**CCTAA-----TAC**CAGGC**CAA**TCTAT**ATC
 Acur --TGATA-----GGATTCTTATT**CCCCT**TAAAAT-----TAT**CAGGC**CCT**CCTAT**A-C
 Ampe --GATAAC-----CAAATCTTACT**CCCCT**AACC-----CTAC**CGGGC**CGC**CCCAT**GC-
 Urja --GATGAT-----TTTATCTTAGA**CCCCT**AAATT-----TAC**CGGGC**CAG**CCTAT**GC-
 Enet --GGTAAA-----TATTTCTTAAC**CCTTC**AAGCCT-----TAT**CGGGC**CAT**TCCAT**TTT
 Ptbr --AATATA-----CT-CACTTATT**CCCCT**TAATAT-----TAT**CAAGC**TGC**CTTAT**GTC
 Safa --ATTACC-----CCCCTCCGAAC**CCTCC**G-AGAA-----TAT**CGTGC**TAC**TTTAT**G-C
 Icae --GATAAT-----CACATCCTAAC**CCCCT**AATACT-----AT**CAGGC**CAT**CTCAT**GC-
 Asmi --GATATT-----AC-CCCTAAAA**CCCTT**ATATTCC---CTAC**CAGAT**TCT**CCTAT**GC-
 Foal --GAAAAC-----AGTTCTCAACC**CTCTT**CAAC-----TAT**CAGGC**TAT**ACTAT**TT-
 Drze --AATATA-----AATATCCCAAT**CCCCT**AAAAC-----TTAA**CAGGC**CTT**TCCAT**AT-
 Rhas --GACAAG-----CACATCTTAAA**CCCCT**TA-TTT-----TAT**TAGGC**CTT**TCCAT**GCC
 Elac --GACGAA-----ACCATCTTAAA**CCTCT**TAACC-----TAT**TAGGC**CTC**CCTAT**GC-
 Kugu --GATAAA-----CACATCTTATC**CCTCC**AA-ACC-----TAT**CAGGC**CAT**TCTAT**GC-
 Plor --GATAAC-----TATTTCTTAAT**CCCCT**AACTC-----TAT**CAGGC**CGC**CCCAT**GC-
 Sgun --GATAAT-----ACCTTCTTAAC**CCCCT**AACCA-----TAA**CAGGT**TAT**CCCAT**GCC
 Zaco --GATAAT-----CCTATCTCACC**CCCCT**AACAC-----TAC**CAGGC**CAT**CCTAT**GCA
 Zbfl --GATAAC-----CCTACTTAAAT**CCCCT**AACC-----TTAC**CGAGC**CAT**CCCAT**GCC
 Spba --GATAAC-----CCAATCTTAAC**CCCCT**AACCC-----TAT**CAGGC**CGT**CCTAT**GCC
 Game --GATAAC-----CAAATCCCAAC**CCCCT**AACAT-----TAT**CAGGC**CAT**CTCAT**G-C
 Thth --GATAAC-----CATATCCCAAC**CCCCT**AA-TAT-----TAT**CAGGC**CAT**CTCAT**GCA
 Xigl --GATAAC-----CAAATCTTAAC**CCCCT**AACTC-----TAC**CAGGC**CGC**CCCAT**GCA
 Hyja --GATAAC-----CAAATCCCAAC**CCCCT**AAACAC-----TAT**CAGGC**CAT**CTCAT**GCA
 Psan --GATAAC-----CAAATCTCAAC**CCCCT**TAATAT-----TAC**CAGGC**CAT**CTCAT**GC-
 Cupa --GATAAA-----CATATCCTAAC**CCCCT**AACACT-----AT**CAGGC**CAT**CTCAT**GCA
 Mpch --GATAAA-----ATA-TCTTATT**CCCCT**AG-TAA-----TAT**CAGGC**CGC**TCCAT**AT-
 Char --GACAAC-----CCTACTTAAAC**CCCCT**ACTTCC-----CAC**TAGGC**TGT**TTTAT**GCA
 Pser --GATAAC-----CCAATCTTATC**CCCCT**A--AACT---TAT**CAGGC**CGC**CCCAT**GCA
 Prol --GATAAC-----CTTATCTTAAAT**CCCCT**AAAT-----TTAA**CGAGC**CCC**CCTAT**GCC
 Plbi --GATAAC-----CTTATCTTAAAT**CCCCC**ACATTT-----AA**CAGGC**CCT**CCTAT**GCA
 Calu --ATTA---ACTTTCTAAAG**CCCCA**TAATT-----TAT**CAGAC**CTT**TCCAC**CC-
 Papa --GATAAT-----ACACCCACC**CCCCT**GCAACAC----TAC**CAAGC**CAC**CCCAT**A--
 Suf r --GATAAC-----ACAAATCTAAAT**CCCCT**AAATT---TATAT**CAGGC**CCT**CCTAT**GC-
 Stci --AATA---TTTTCTGATTC**CCCCA**CTAT-----TAA**CAGGC**CTC**CCTAT**GC-
 Taru --AATA---ACACTCCTAAC**CCCTT**CCCC-----TAC**CGGGC**TTT**TCTAT**GCT
 Rala --GATAAT-----CCTTTCTTAAAT**CCCCT**ATAAC-----TAC**CGAGC**CGT**CCTAT**G-C

	24'	6'	A	25										
Scca	AAA---TT	ATAAA	AGAACTTA	-TGT	-TAA	AATGAGTA	-A	-T	AAGAGGAT	-----	AA	----		
Muma	----AAAT	ATAAA	AGAACTTA	-TGC	-TAA	AATGAGTA	-A	-T	AAAGAGAA	-----	CA	-AAT		
Erca	T-----A	TTAGA	AGAAATTA	-TGC	-TAG	A	ACTAGTA	-A	-T	AAGAAAAA	-----	GA		
Pose	----TAA	ATAGA	AGAAACAA	-TGC	-TAG	A	ACTAGTA	-A	-T	AAGAAAAA	-----	TGATT		
Actr	----AACT	ATAGA	AGCAATAA	-TGC	-TAA	A	ATTAGTA	-A	-C	AAGAAGGTA	-----	C	-GACC	
Scal	GC-----T	ATAGA	AGCAATAA	-TGC	-TAA	A	ATTAGTA	-A	-C	AAGAAGGC	-----	AC	--GA	
Posp	----ACT	ATAGA	AGCAATAA	-TGC	-TAA	A	AT	-AGTA	-A	-C	ANGAAGGC	-----	N	-CGAC
Atsp	-TT-----	ATAGA	AGAAATAA	-TGC	-TAA	A	ATTAGTA	-A	-T	AAGAAGAC	-----	ATGAT		
Leoc	T---T--T	ATAGA	AGAAATAA	-TGC	-TAA	A	ATCAGTA	-A	-T	AAGAAGGCA	-C-----	GA		
Amca	----AAT	ATAGA	AGTAATAA	-TGC	-TAA	A	ATTAGTA	-A	-T	AAGAAGGC	-----	ACGAC	-	
Osbi	TAT-----	ATAGA	AGAAACAA	-TGC	-TAG	A	ATAAGTA	-A	-C	AAGAAGAT	-AT-----	AAT		
Pabu	----AACC	ATAGA	AAAGACAA	-TGC	-TAA	A	ATTAGTA	-A	-C	AGGAAGAAA	-----	TGA		
Hial	----AACT	ATAGA	AGCGATAA	-TGC	-TAA	A	ATAAGTA	-A	-T	AAGAAGGTATG	-----	ACC		
Elha	--A--CCC	ATAGA	AGAGACAA	-TGC	-TAA	A	ATCAGTA	-A	-T	AAGAAGGCA	-----	CAA		
Mlcy	----AAAC	ATAGA	AAAAACAA	-TGC	-TAA	A	ATCAGTA	-A	-T	AAGAAGACAC	-----	GA	---	
Algl	----TGAC	ATAGA	AGCAATAA	-TGC	-TAA	A	ATTAGTA	-A	-C	AAGAAGAAA	-----	TTGTTC		
Ptgi	CCC-----	ATAGA	AGAGATAA	-TGC	-TAA	A	ATCAGTA	-A	-T	AAGAAGGAAC	-----	AA		
Alaf	AA-----C	ATAGA	AGAGATAA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAGAAAC	-----	GA		
Nock	----TAAC	ATAGA	AGAGATAA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAGGGA	-----	TGA		
Anja	CA-----C	ATAGG	AGAAACAA	-TGC	-TAA	A	ATCAGTA	-A	-T	AAGAGGGCCC	-----	AAG		
Gyki	----GCAT	ATGGA	GAAGATAA	-TGC	-TAG	A	ACTAGTA	-A	-T	AAGAGGCCAC	----G--CC-			
Syka	----AGAC	ATAGG	AAAGATTA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAGGAGT	-----	ATTAGA		
Opma	CA-----C	ATAGA	AGAAATGA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAGGCACT	-----	CAG		
Comy	-----T	ATAGG	AGAAATTA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAGAACTAG	-----	ACC		
Sasp	AT--T--	ATAGA	AGAGATTA	-TGC	-TAA	A	ATTAGTA	-A	-T	AAGAGAGCCC	-----	GC		
Eupe	----CAC	ATGGA	AAAAATAA	-TGC	-TAA	A	ATTAGTA	-A	-C	TAGAAGCCAT	-----	GA		
Enja	CCC-----	ATGGA	AGAGACTA	-TGC	-TGG	A	ACGAGTA	-A	-C	AAGAAGAAT	-----	GA		
Same	----CATC	ATAGG	GGAGACCA	-TGC	-TAG	A	ACGAGTA	-A	-T	AAGAAGGATA	-----	GA		
Chch	----AAAC	ATAGA	AGAGACTA	-TGC	-TAG	A	ATGAGTA	-A	-C	AAGAAGAACA	-----	GCCC		
Grgr	CC-----C	ATGGG	AACGACCA	-TGC	-TAG	A	ATGAGTA	-A	-C	AAGAGGAGA	-----	AGATC	-	
Caau	----CAC	ATGGA	AGAGATTA	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAAGGCCCGC	-----	C		
Cyca	CCC-----	ATGGA	AGAGATTA	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAAGGCC	-----	GC		
Dare	----AAAT	ATGGA	AGAAATTA	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAAGAACCT	-----	GTAC		
Cost	TAC-----	ATGGA	AGAGACCA	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAGAC	-----	AAC		
Leec	----CCAC	ATGGA	AGAGACTA	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAGG	-----	CACGA		
CrIa	CC-----C	ATGGA	AGAAACTA	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGGGG	-----	TCATGG		
Clmc	----CAAC	ATGGA	GGAGACCC	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAAG	----A----	AACCTC		
Phin	AT-----C	ATGGA	GGAGACCC	-TGC	-TAA	A	ACGAGTA	-A	-T	AAGAAGA	-----	AACC		
Icpu	CG-----C	ATGGA	TGAGATAC	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAG	---AA----	CCC--C		
Psto	TA-----C	ATGGA	AGAAATAC	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAAG	-----	AACCC-		
Cora	----AAC	ATGGA	AACGACAC	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAGGTC	-TA----	CCAAGC		
Eisp	AAC-----	ATGGA	GGAGATTC	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAAAGACAC	-----	CCC		
Apal	---GAC	ATAGA	AGAGACCC	-TGC	-TAA	A	ATGAGTA	-A	-C	AAGAAGAT	-----	ACCC		
EsLu	-C-----C	ATGGA	AAAGATTA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAGG	-----	AACAAC		
Dape	-----T	GTGGA	AAAGATTC	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAGGAA	-----	ACAA		
Glse	CCC--CCC	CTGGG	AGCGACTA	-TGC	-TAG	A	ATGAGTA	-A	-T	AAGAGGGA	-----	ACGAC		
Naar	CCCCCCCC	CTGGG	GGCGATTA	-TGT	-TAG	A	ATGAGTA	-A	-T	AAGAGGGGACA	-----	AC		
Baoc	CCA--CCC	TTGGG	GGCGATTA	-TGC	-TAG	A	ATGAGTA	-A	-T	AAGAGG	-----	TGCAA		
Opso	CCC-TCCC	CTGGG	AGAGACTA	-TGC	-TAG	A	ATGAGTA	-A	-T	AAGAGG	---GA-----	CAA		
Alte	C-----CC	ATAGG	AGAGACAA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAG	-----	ACGC		
Plap	CCC-----	ATAGG	AGAGATAA	-TGC	-TAA	A	ATGAGTA	-A	-T	AAGAAGGAC	-----	GC		

Plal CC--C--**ATGGG**AGTGACCC-TGC-TAG**A**ATGAGTA-A-TAAGAGGGGCTA-----CC
 Sami ----CCC**ATGGG**AGCGACCC-TGC-TAG**A**ATGAGTA-A-TAAGAGGGGC--A----CACACC
 Rere ----CTCC**GTGGG**AATGACCA-TGC-TAG**A**ATGAGTA-A-TAAGAGGGGTTA-----CC---
 Gama TAT-----**GTGGA**AGAGACCA-TGC-TAT**A**ATGAGTA-A-CAAGGGGGT-AA-----GA
 Onmy ----CCCC**ATGGA**AGAGATTA-TGC-TAG**A**ATGAGTA-A-TAAGAGAGT-----AC--AA
 Sasa CAC-----**ATGGA**AGCGATTA-TGC-TAG**A**ATGAGTA-A-TAAGAGAG-GAC-----AAC
 Cola ----CCC**ATGGA**AGAGATTA-TGC-TAG**A**ATGAGTA-A-TAAGAGGG---GA----C--AA-
 Dita ----CCC-**ATAGG**AGAGCTTA-TGC-TAA**A**ATGAGTA-A-TAGGAGGGC-----ACGC
 Gogr CC-----CATAAAAGACCCCC-TGC-TAA**A**ATTAGTA-A-TAAGAGAC---CC----CAC---
 Chsl TCC-----**ATGGG**GGAGCCCC-TGC-TAA**T**ATGAGTA-A-TAAGGGAGGCTAGCCTTCGCTGC
 Atja ----TAC**ATGGG**AAAGATTA-TGC-TAA**A**ATGAGTA-A-TAAGGGACT-----ATAAG-
 lido ----CAAC**ATGGA**AAAGATTA-TGC-TAA**A**ATGAGTA-A-TAAGGGATTA-----TGA
 Auja T-----CC**ATGAA**AGAGATTA-TGC-TTA**T**ATGAGTA-A-TAAGAGGA-----AATGA
 Chag ----CCCC**ATGAA**AGAGACCA-TGC-TTA**T**ATGAGTA-A-CAAGAGGGC-----CAGCCC
 Hami ----CCCC**ATGGA**AGAAATTA-TGC-TTA**T**ATGAGTA-A-TAAGAGGT-----ACATGA
 Saun CC-----C**ATGGG**AGAAACGA-TGC-TTA**T**ATGAGTA-A-TAAGAGGCACAC-----GA
 Nema AG--C--**ATGGA**AAAGACCC-TGC-TAA**G**ATGAGTA-A-TAAGAGGGA-CA-----GC
 Disp CC-----**CTGGG**AAAGACCC-TGC-TAG**A**ATGAGTA-A-TAAGAGGA---G---CCTAC-
 Myaf ----ACC**CTGGG**AGAGACCC-TGC-TAA**A**ATGAGTA-A-TAAGAGAG-----TACGC
 Lagu -----**GTAGA**AGAAACCA-TGC-TAG**A**ATGAGTA-A-CAAGAGGC-----CCAAGC
 Trtr T---ATAT**ATAGA**AAAGACTA-TGC-TAG**A**ACGAGTA-A-TAAGGGCCT-AT-----ACA
 Zucr ----GGAA**ATAGA**AGAGATTA-TGC-TAG**A**ACGAGTA-A-TAAGGGTACTAT---T--TAA
 Pxja C---AACC**ATGAG**AGTGACCA-TGC-TAA**A**ATGAGTA-A-TAAGAGGGTA-C-----GA-
 Pxlo ACC-----**ATGAG**AGTGACCA-TGC-TAA**A**ATGAGTA-A-TAAGAGGG---TA-----CGA
 Pctr ----CCC-**GTGGG**GGAGATAA-TGC-TAA**A**ATGAGTA-A-TAAGAGGGC-----AA-GC
 Apsa TC--AGCC**ATAGG**AGAGACTA-TGT-TAA**T**ATGAGTA-A-CAAGAGGG-----CCTGC
 Cabe T---CTT**ACATA**AGTGATTC-TGC-TAA**T**ATGAGTA-A-TAAGGGGCTC-C----AACGG
 Bzze A---ATT**ATGTG**AGTGACTA-TGC-TAA**T**ATGAGTA-A-TAAGAGAACA-T-----CCGG
 Siim C---AACC**ATGTG**AGTGATTA-TGC-TAA**T**ATGAGTA-A-CAAGAGTGAA-G-----GAA
 Ctru A-----AT**GTGGA**AGAGACCA-TGC-TAA**T**ATGAGTA-A-TAAGAGGG-----AGACC
 Dpbr ----TAAT**ATGGA**AGAGACCA-TGC-TAA**T**ATGAGTA-A-TAAGAGGGAA--A---AC----
 Caki CC-----C**ATAAG**AATAATTA-TGC-TAA**A**ATGAGTA-A-TAAGAAGA---A---A--AT-
 Phja TT-----C**ATAAG**AACAATTA-TGC-TAA**A**ATGAGTA-A-TAAGAAGA---AT----CTAATT
 Brsp -----T**ATAAA**AGAAATTA-TGT-TAA**A**ATGAGTA-A-TAAGAATT-----A
 Gamo ----CCC**ATAAG**AACAATTA-TGC-TAA**A**ATGAGTA-A-TAAGAAGA---A---TTTAAT
 Lolo CCC-----**ATAAG**AACAATTA-TGC-TAA**A**ATGAGTA-A-TAAGAAGA-ATAT-----AAT
 Batr CT-----G**ATGTA**GATAA---TGC-TAA**T**ATGAGTA-A-TATGGAAC-----
 Prmy ----A---**ATAGT**AGAGACAA-TGC-TAG**T**ATGAGTA-A-TAAGAGGCC-----TCA---
 Loli -----T**ATAGG**AGCTATAC-TGT-TAA**T**ATGAGTA-A-TAAGAAAGTACCCT---ACAAGG
 Loam ATC-----**ATAGG**AATTATAC-TGC-TAA**T**ATGAGTA-A-TAAGAGAACATA-----AGG
 Chab ----AAAC**ATGGA**AGAGATAA-TGC-TAA**T**ATGAGTA-A-TAAGAGGGCTACA---CCCC--
 Chto AA-----C**ATGGA**AGAGATAA-TGC-TAA**T**ATGAGTA-A-TAAGAGGG---CT----CCACCC
 Majo CG-----T**ATGGG**AGTGACCA-TGC-TAA**T**ATGAGTA-A-TAAGAGAG---T----CAAGG-
 Hlst ----AACC**ATGGA**AAAGATAA-TGC-TAA**T**ATGAGTA-A-TAAGAAAGA--CT----AACCT
 Clpe ----AAC-**ATGGG**AAAGATTA-TGC-TAA**T**ATGAGTA-A-CAAGAGGGC-----CACCCC
 Mlmr ----AAGC**ATGGA**AAAGATTA-TGC-TAA**T**ATGAGTA-A-TAAGAGGGCT-----ACCC
 Crcr AGC-----**ATGGA**AGTGATTA-TGC-TAA**A**ATGAGTA-A-TAAGAGAAT-----ACGTC
 Muce AGC-----**ATGGA**AGTGATTA-TGC-TAA**A**ATGAGTA-A-TAAGAGAATAC-----GT
 Bege ----CCTT**ATGGG**AGTGATCA-TGC-TAA**T**ATGAGTA-A-TAAGAAAG---AA---C--ACT
 Mela AT-----**ATGGG**AATAATAA-TGC-TAA**T**ATGAGTA-A-TAAGAGAGCAA-----GAC
 Hats T---ACAT**ATAGG**AGCGACTA-TGC-TAG**T**ATGAGTA-A-CAAGAGAGCC-C-----TGA
 Orla ----TTT**ATGAA**AGAAATTA-TGC-TAG**T**ATGAGTA-A-TAAGAAGTTCTG-----AA

Cosa -----A-T**ATAGA**AGCGATTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGGC**-----TACAAC
 Exsp -----GTA-**ATAGA**AGAGATAA-TGC-T**AAT**ATGAGTA-A-T**AAGAGATG**-----AAGAT-
 Depa --G-T--**GTGGA**AACAATTA-TGT-T**AAT**ATGAGTA-A-T**AAGAGGCAC**-----AA
 Rima C-----**ATAAA**AGCAACCA-T**AC**-T**AAC**ATGAGTA-A-T**AAGAGACCC**-----GAA
 Fuol TC-----T**ATAGG**AAAGATTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAA**-----CTTGT-
 Gmaf AA-----**ATAGA**AGAGATTA-TGC-T**AAA**ATGAGTA-A-T**AAGAGAA**-----T-ACAC
 Xeei ----CCTA**ATAGA**AAAGATTA-TGC-T**AAA**ATGAGTA-A-T**AAGAGAAT**-----ACGCT-
 Pros CC-----C**ATGGA**AGAGATCC-TGC-T**AAT**ATGAGTA-A-T**AAGAAAA**---TC---CCAGAT
 Scmi ----CCCC**ATGGA**AAAAATAC-TGC-T**AAC**ATGAGTA-A-C**AAGAAAA**---C---CCCAGA
 Rolo GC-----C**ATGAA**AGAGACCA-TGC-T**AAT**ATGAGTA-A-T**AAGAAGG**---T---AGCAGA
 Cere A---ACC**ATAGG**AGAGACTA-TGC-T**AAT**ATGAGTA-A-T**AAGAAGGAA**-A----ATTAAA
 Daga ----GACC**ATGAA**AGAGACCA-TGC-T**AAT**ATGAGTA-A-C**AAGGGGGCACTC**---ATAGAC
 Anco ACC-----**ATGAG**AGAGTTAA-TGC-T**AAA**ATGAGTA-A-T**AAGAGGGA**-----A--GC
 Dmve AC-----C**ATGAG**AGAGTTTA-TGC-T**AAA**ATGAGTA-A-T**AAGAGGGCAC**-----GC
 Dmar ----CACC**ATGAG**AGAGTTTA-TGC-T**AAA**ATGAGTA-A-C**AAGAGGG**-----CACGC
 Anka ----AACC**ATGAG**AGAGTTAA-TGC-T**AAA**ATGAGTA-A-T**AAGAGTTA**-----GC
 Moja ----AGCC**ATGAG**AGAGTTAA-TGC-T**AAA**ATGAGTA-A-T**AAGAGGG**---T---AG-CCC
 Hoja ----ACCC**ATGAG**AGAGTTTA-TGC-T**AAA**ATGAGTA-A-T**AAGAGGTA**-----GC
 Bede GCC----**ATGGG**AGAGACCC-TGC-T**AAT**ATGAGTA-A-C**AAGAAAATTTCT**-----AGA
 Bosp ----ACC**ATGGG**AGAGACCC-TGC-T**AAT**ATGAGTA-A-C**AAGAAAA**---T---TCTAGA
 Mysp ----ACCC**ATGTA**AGAGATCC-TGC-T**AAT**ATGAGTA-A-T**AAGGAAGC**-----ATAAGA
 Osja ACC-----**ATGTA**AGAGATCC-TGC-T**AAT**ATGAGTA-A-T**AAGAATGTCCTT**-----AGA
 Sgro ----AACC**ATGTG**AGAGATCC-TGC-T**AAT**ATGAGTA-A-T**AAGAACG**-TACC---AGA---
 Pzpa CC-----C**ATGAG**AGTGATAA-TGC-T**AAA**ATGAGTA-A-T**GAGAAAATAAAA**-----CT
 Zeja T-----TC**ATGAG**AGTGATAA-TGC-T**AAA**ATGAGTA-A-T**AAGAAGC**-----ATATG
 Znne ----CCCC**ATGAG**AGTGATAA-TGC-T**AAA**ATGAGTA-A-T**AAGAAGTT**-----ATAAC-
 Zefa ----TCC**ATGAG**AGTGATAA-TGC-T**AAA**ATGAGTA-A-T**AAGAAGT**---A---ATAA--
 Acni ----CCCC**ATGAG**AGTGATAA-TGC-T**AAA**ATGAGTA-A-T**AAGAAGTTA**-----TAA
 Ncrh CC-----C**ATGAG**AGTGATAA-TGC-T**AAA**ATGAGTA-A-T**AAGAAGT**-----TATAA-
 Agca TAA--ACC**ATGGG**AGAGATTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAGC**-----CC---T
 Hydy ----TTTC**ATGGG**AGTGACGA-TGC-T**AAT**ATGAGTA-A-T**AAGGGGG**---C---CTACGC
 Gsac T-----TC**ATGGG**AGTGATTA-TGC-T**AAT**ATAAGTA-A-T**AAGGGAGC**-----CAATGC
 Pevo AC-----T**ATAGA**AACAATTA-TGC-T**GAT**ATGAGTA-A-T**AAGAGAA**-----T-AAGA
 Hiku ----ATAC**ATGAA**AATGATAA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAAGT**--T---AAGATT
 Inpa ----AAAC**ATGGA**AGTGACAA-TGC-T**AAT**ATGAGTA-A-T**AAGAAAGC**-----AAG
 Auch ACT-----**ATTGA**AGCGAAAA-TGC-T**AGA**ATGAGTA-A-C**AAGAGACCCC**-----AGA
 Fico -T-AA-**ATGGG**AGTAATTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAA**-----CCAAGC
 Macs ----AACT**GTGGA**AGTGACCA-TGC-T**AAT**ATGAGTA-A-T**AAGAAAT**-----TAAGAA
 Moal CA-----C**ATGAA**AGTAATTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAGC**-----TC--GC
 Syma TAC-----**ATGAG**AGCGATTC-TGC-T**AAT**ATGAGTA-A-T**AAGAGAGCTAC**-----GCC
 Maf r ----ACC-**ATGGA**AGAAATTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAAC**-----CACAC
 Dcpe AA-----T**ATGGG**AGTGATCC-TGC-T**AAT**ATGAGTA-A-T**AAGAGAA**-----ATAACA
 Dct i GA-----T**ATGGG**AGTGATCC-TGC-T**AAT**ATGAGTA-A-T**AAGAGAA**---A---TAACA-
 Hehi AAC----**ATGGG**AGAGACCC-TGC-T**AAT**ATGAGTA-A-T**AAGAGAGCCAA**-----GC
 Stam CC-----C**ATGGA**AGCGACTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAGCTCCG**-----CC
 Hogi ----AACC**ATGGG**AGCGACCA-TGC-T**AAT**ATGAGTA-A-T**AAGAGACCC**-----CGC
 Erzo ----TAC**ATGGG**GGTGACTA-TGC-T**AAT**ATGAGTA-A-C**AAGAGAG**---CC---TCGGA-
 Hxot ----AAC**ATGGG**AGTGACTA-TGC-T**GAA**ATGAGTA-A-T**AAGAGAG**-C-TA---CCGG--
 Core CC-----C**ATGGG**AGTGACTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGGG**---CC---AAAGGC
 Apve TG-----C**ATGGG**AGTAACTA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAGCCT**-----ACGC
 Lat j ----AAAC**ATGGG**AGCGACCA-TGC-T**AAC**ATGAGTA-A-T**AAGAGGATG**-GC---CTACGC
 Laja AA-----T**ATGGA**AGTGACCA-TGC-T**AAT**ATGAGTA-A-T**AAGAGAG**---C---CTCGC-

Syja ---AACT**GTGGG**AGTGACTA-TGC-TAA**T**ATGAGTA-A**C**AAGAGAG---C-----CCCGGC
 Epme ---ACAC**ATGGG**AGCGATCC-TGC-TAA**A**ATTAGTAT-A**T**AAGAGAAC---C---TAACGA
 Grse AAC-----**ATGGA**AGCGACTA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGCTACC-----GCC
 Clja AA-----C**ATGGA**AGTAATAA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAG---CA---CTCGCC
 Ogcy CC-----A**ATAGA**AGAAACAA-TGC-TAA**A**ATGAGTA-A**T**AAGAGGA---AA---CCCGCC
 Plna ---TCC-**ATGGG**AGTGACCC-TGC-TAA**A**ATGAGTA-A**T**AAGAGACT-----CCAAA-
 Lema ---AAAC**ATGGG**CGTGACTA-TGC-TAA**A**ATGAGTA-A**T**AAGAGAGTTAA-----GAC--
 Etzo AA-----C**ATGGG**AGTGACCC-TGC-TAA**A**ATGAGTA-A**T**AAGAGAG---CC---CACGCC
 Apse CC-----T**ATGGG**AGAGATTA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAT-----CCCCGC
 Epde AA-----C**AGGGG**AGCGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAACATCCG---CT----
 Slja ---CTAT**ATGGA**AGTGATAA-TGC-TAG**A**ATGAGTA-A**T**AAGAGAGC-----CAGACT
 Bsja ---AGC**ATGGG**GACGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAAC-----ATAAGA
 Ecna ---TAAC**ATGGG**AATGATAA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGA-----TACCGA
 Cohi ATT-----**ATGGA**AGTGATTA-TGC-TAA**A**ATGAGTA-A**T**AAGAGAGC--TT----AAGGC
 Caar ---ACCC**ATGGG**GGCGACCC-TGC-TAA**A**ATGAGTA-A**T**AAGAGAGCA--T----ACC---
 Came CT-----C**ATGGG**GGCGACCC-TGC-TAA**A**ATGAGTA-A**T**AAGAGAGCTACA-----CC
 Mema A---CAC**ATAGG**AGTGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGGACA-----CGC
 Lenu ---CGTG**GAAGA**A---ACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGACTA--C---CAA-GG
 Brja ---AAC-**ATGAG**AGTGCCCA-TGC-TAA**T**ATGAGTA-A**T**AAGAAGGC-----CCCGG
 Plma AA-----C**ATGAG**AGTGCACA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAACACCC-----GT
 Emst ---AAAC**ATAGG**AGTGACCA-TGC-TAA**T**ATGAGTA-A**T**CAGAGAGTA-----TTA--C
 Ptti ---AAC-**ATGGG**AGTGATAA-TGC-TAA**C**ATGAGTA-A**T**AAGAGAGC-----ACAAC-
 Losu ---ACC-**ATGGG**AGAGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGGGC-----TTCCGC
 Geoy CCC-----**ATGGG**AACGACCA-TGC-TAA**A**ATGAGTA-A**T**AGGAAGGGCCAA-----CGC
 Dipi CGA-C---**ATGGA**AGCGAACA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGCCTC-----GC
 Pama C---AAAC**AGTGG**AGAAATAA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGAA-C-----AAA
 Leob AC--CT--**ATAGA**AGCGATTA-TGC-TAA**T**ATGAGTA-A**C**AAGAGGGGG--T---CATAGC
 Neba ---GTT**ATAGA**AGTGATAA-TGC-TAA**T**ATGAGTA-A**T**ATGAGACC-----
 Pdpi CC-----C**ATGGG**TGTGATTA-TGC-TAA**T**ATGAGTA-A**C**AAGATGGGCCAA---CTACGC
 Nimi ACC-----**ATGGG**AGCGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGGGCAAAT----ACGCC
 Uptr CT-----T**ATGGG**AGTGACCA-TGC-TAA**T**ATGAGTA-A**C**AAGAGAGTCAA-----GA
 Pesc ---TACT**ATGGG**AGCGATCA-TGC-TAA**T**ATGAGTA-A**C**AAGAATGGCTTC---C--GCC
 Baar ACT-----**ATGGA**AGCGACCC-TGC-TAA**A**ATGAGTA-A**T**AAGAGAGC-----CTCGC
 Moar G-----AC**ATGGG**GGTGTCCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGTAA-----ACCAA
 Toja ---CCAC**ATAGG**AGTGATAA-TGC-TAA**A**ATGAGTA-A**T**AAGAGAGTACC-----CAACCC
 Chau ---AGAC**ATGGG**AGAGATTA-TGC-TGA**A**ATGAGTA-A**T**AAGAGAGT---G---ACACGA
 Chse ---AACC**ATGGG**GGCGATTA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGTA-----CTTAGA
 Enar ---AAAC**ATGGG**AGTGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGT-----CCTCGA
 Hpty ---CTAC**ATGGG**AGCGACCA-TGC-CA**A**TATGAGTA-A**T**AAGAGAGCACCA---C--CCC
 Nana ---AAAC**ATGGA**AGAGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAACA-----C--TCC
 Mcst ---AAAC**ATGGG**AGTGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGCC-----CTAAGC
 Rhox ---CCC**ATGGG**AGCGATTA-TGC-TAG**A**ATGAGTA-A**T**AAGAGAGC-----CCTGAC
 Opfa C---AAAC**ATGGG**AGTGACCA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGGC--CC-----CGC
 Paar TAC----**ATGAA**AGCGACCA-TGC-TAG**A**ATGAGTA-A**T**AAGAGAAAT--CC-----AGC
 Gozo ---ACAC**ATGGG**GGTGACCA-TG**T**-TAA**T**ATGAGTA-A**T**AAGAGAGC-----ACCCGC
 Ackr CT-----T**ATGGG**AGTGATTA-TGC-TAA**A**ATGAGTA-A**T**AAGAAGGCC-----TGGC--
 Elev TC--C---**ATAGA**AGAGATAA-TGC-TAA**T**ATGAGTA-A**T**AAGAGACA-CA-----GA
 Trdu AC-----T**ATGGA**AGCGTTTA-TGC-CA**A**TATGAGTA-A**T**AAGAGAACCC-----
 Amoc ---CTCC**ATGGG**AGCAATTA-TGC-TAA**A**ATGAGTA-A**T**AAGAGGGC-----ACTCAA
 Hame ---TCC**ATAGG**AGTGACCC-TGC-TAA**T**ATGAGTA-A**T**AAGAGCGC-----TCAGAC
 Chso --C---CC**ATGGG**AGTGACCA-TGC-TAG**T**ATGAGTA-A**T**AAGAGAA-----TAAGAC
 Lyto CAC-----**ATGGG**GGTGACTA-TGC-TAA**T**ATGAGTA-A**T**AAGAGAGCCT-----CTGG

Encr ----TGC-ATGGGAGTGATTA-TGC-TAATATGAGTA-A-TAAGAGAGC-----CTTTGG
 Bvar AG-----CATAGGAGTGACCA-TGC-TAGTATGAGTA-A-TAAGAGAGC-----CCTCAC
 Noco ----CAACATGGGAGTGACCA-TGC-TAATATAAGTA-A-TAAGAAAGCC-----CTGGAC
 Chsp T-----ACTGGGAAGCATTCTAT-TAATATGAGTA-A-TAAGTAAAGC-----AAGCCT
 Arja ----CGC-ATGGGAGTGATTA-TGC-TAATATGAGTA-A-TAAGAGAGC-----TAAAGA
 Pase T---TATTATGGAAGCGATTC-TGC-TAAATGAGTA-A-CAAGAGGGGG-CT---AGACAC
 Trel ----ATTAATGGAAGAGACCA-TGC-TAAATTAGTA-A-TAAGAGGGC-----AAGACC
 Lifa -----ATAGAAGAGATTA-TGC-TAATATGAGTA-A-TATGAAAAC-----TACAAC
 Acur G---CACTATAGGAGTAACAC-TGC-TAGATGAGTA-A-CTGGAAAAC-----AAAAGA
 Ampe ----AAACATGGGAGCGACCA-TGC-TAATATGAGTA-A-TAAGAGAGCTTAA---G--CC-
 Urja ----AACCATAGGCGTGACCA-TGC-TAATATGAGTA-A-TTGGGGGCCTG-----A
 Enet TAA---CTATGGAAGAGATAA-TGC-TAGTATGAGTA-A-CTGAGGTTG-----AGC
 Ptbr CCC-----ATAAAGGCATTTT-TGC-TAGATGAGTA-A-TAAGAGAACT-----GA
 Safa ----CACCATAAAATATTTAA-TGC-TAGATGAGTA-A-CAAGAGCCAA--C---GAA---
 lcae ----AGACATGAGAGTGCACA-TGC-TAATATGAGTA-A-CAAGAGAGCCC-----GTC
 Asmi ----AAACATAGGAAAAAATA-TGC-TAATATGAGTA-A-CTAGAGAAA-----GAC--
 Foal ----AATATAGTAAAAATA-TGC-TAGTATGAGTA-A-TAAGGGGAA-----GCC-
 Drze ----AATTATGGAAGTGATAA-TGC-TAAATGAGTA-A-CAAGAGACCTTAA---C-AT-C
 Rhas CA----CATGGAAGAGACCA-TGC-TAACATGAGTA-A-TAAGAGGA-----CTAGTC
 Elac ----GAACATAGAAGAGAATA-TGC-TAGATGAGTA-A-TAAGAGGGC-----C-GACC
 Kugu ----ACCCATAGAAGTGACTA-TGC-TAATATGAGTA-A-TAAGAGAAA-----ACTAGA
 Plor ----AGTCATGGGAGCGATCA-TGC-TAAATGAGTA-A-TAAGAGGGCTAC-----GCC--
 Sgun CAC-----ATGGGAGAAATTA-TGC-TAATATGAGTA-A-TAAGAGAACAC-----GC
 Zaco ----ACC-ATAGGAGCGATCA-TGC-TAATATGAGTA-A-TAAGAGAGTT--T----AACGC
 Zbf1 CA-----CATGGGAGTGATCC-TGC-TAATATGAGTA-A-TAAGAGAAC-----CTACG-
 Spba AAC----ATAGGAGCGACTA-TGC-TAATATGAGTA-A-TAAGAGACC--CC-----CGA
 Game ----AAACATGAGAGTGCACA-TGC-TAATATGAGTA-A-CAAGAGAGC-----TCTGCC
 Thth TAC----ATGAGAGTGCACA-TGC-TAATATGAGTA-A-CAAGAGAGCCTC-----CGC
 Xigl GA-----CATGGGCGTGACTA-TGC-TAATATGAGTA-A-CAAGAGAGTACCTA---CCC--C
 Hyja TAC----ATGAGAGTGCACA-TGC-TAATATGAGTA-A-TAAGAGAGT--AC----CCCGC
 Psan ----ATACATGAGAGTGTATA-TGC-TGATATGAGTA-A-TAAGAGCGCA-----ACCCCG
 Cupa GA-----CATGAGAGTGCACA-TGC-TAATATGAGTA-A-TAAGAGAGG-----ACTCGC
 Mpch ----CATTATGGAAGGTGATAA-TGC-TAATATGAGTA-A-TAAGAGAGTA-----AGA
 Char AAC-----ATGAAAGCACCAA-TGC-TAAATATGAGTA-A-TAAGAGAGC--AC----CGACC
 Pser ----ACC-ATGGAAGGTGTCCA-TGC-TGATATGAGTA-A-TAAGAGAGT-----CACACC
 Prol ----AAACATAGGGATGACCA-TGC-TAATATGAGTA-A-TAAGAGAATACTA---A-GTAC
 Plbi TCA---CATAGGAACGACTA-TGC-TAATATGAGTA-A-TAAGAAAGTA-----TAACCA
 Calu -----T-GTGGAGAGAACA-TGC-TAATATGAGTA-A-CAAGAAGACA-----CTACGA
 Papa -----AATATGGGAGAGACCA-TGC-TAATATGAGTA-A-TAAGAGAAG-----TAATCC
 Suf r ----AACCATAGGACTGATTA-TGC-TAATATGAGTA-A-TAAGAAAGTA-----CTGACT
 Stci ----CCCCATAGGAAAGATTA-TGC-TAAATATGAGTA-A-TAAGAAAGAC-----AAGA
 Taru TCC----ATAGAAGAAATTA-TGC-TAAATATGAGTA-A-TAAGGGGCC-----GAC
 Rala ----CTGCATAGGAGCGACTA-TGC-TAGACCGAGTA-A-TAAGAGAATT--A----AT--GA

* * * * *

	26	27	B	28	28'															
Scca	ACC	TCT	-CCC	ACAC	AAGTGT	AT	-G	TCA	-GAA	AGA	ATTTAA	TCA	CTGA	TAA	--	TTA	-AA			
Muma	--	C	TCT	-CCC	ACAT	AAGTGT	AC	-G	TCA	-GAA	AGA	ATTTAA	TCA	CTGA	CAA	--	TTA	-AT		
Erca	TTT	TCT	-CCC	GCAC	AAGTGT	AA	-G	TTA	-GAC	AGG	ACAAA	-CC	ACTAA	CAA	--	TTA	-AA			
Pose	--	T	TCT	-CCT	GCAC	AAGTGT	AA	-G	TTA	-GAC	AGG	ACAAA	-CC	ACTAA	CAG	--	TTA	-AA		
Actr	--	T	TCT	-CCA	AGCAC	ACGTGT	AA	-G	TCA	-GAC	CGG	ACCCG	-CC	ACTGA	CAA	--	ATA	--A		
Scal	CCT	TCT	-CCA	AGCAC	ACGTGT	AA	-G	TCA	-GAT	CGG	ACCCG	-CC	ACTGA	CAA	--	ATA	--A			
Posp	CTT	CTT	-CCC	GCAC	ATGTGT	AA	-G	TCA	AGAT	CGG	ACTCA	-CC	GCTGA	CAA	--	ATA	-AC			
Atsp	C	-T	TCT	-CCA	AGCAT	ACGTGT	AA	-G	TCA	-GAT	CGG	ACACA	-CC	ACTGA	CAA	--	GTA	-A		
Leoc	CCT	TCT	-CCA	AGCAT	ACGTGT	AA	-G	TCA	-GAT	CGG	ACACA	-CC	ACTGA	CAA	--	ATA	--A			
Amca	-CT	TCT	-CCA	AGCAT	CCCTGC	AA	-G	TCA	-GAC	CGG	ACTCC	-CC	ACTGA	CAA	--	ATA	--A			
Osbi	C	-T	TCT	-CTC	AGCAC	ATGTGT	AA	-G	TCA	-GAT	CGG	ACCAC	-CC	ACTGA	CAA	--	TTAGAA			
Pabu	TCT	TCT	-CCA	AGCG	ACGTGT	TT	-A	TCA	-GAC	CGG	ACAAC	-CC	ACTGA	TAA	--	ATA	-AA			
Hial	--	T	TCT	-CCT	AGCAC	ATGTGT	AA	-G	TCA	-GAT	CGG	ACACC	-CC	ACTGA	CAA	--	TTA	-A		
Elha	CCT	TCT	-CCT	AGCAC	ATGTGT	AA	-G	TCA	-GAT	CGG	ACCAA	-CC	ACTGA	CAA	--	ACA	-A			
Mlcy	TCT	TCT	-CCA	AGCAC	ATGTGT	AC	-G	TTA	-GAC	CGA	ACTAA	-TC	ACTAA	CAA	--	ATC	-AA			
Algl	--	T	TCT	-CCT	AGCAT	GTGTGT	AG	-G	TCA	-GAT	CGG	ACAAG	-CC	GCTGA	CAA	--	TTA	--G		
Ptgi	CCT	TCT	-CCC	GCAC	ATGTGT	AA	-G	TCA	-GAT	CGG	ACCC	-CC	ACTGA	C	--	AAATA	-A			
Alaf	TCT	TCT	-CCCT	GCAC	ACCTGC	AA	-G	TCA	-GAT	TGG	ACCAC	-CC	ACTGA	CAA	--	CTA	--A			
Nock	CCT	TCT	-CCT	GCAC	ACCTGT	AA	-G	TCA	-GAT	TGG	ACCAT	-CC	ACTGA	TAA	--	ATA	--A			
Anja	CCC	TCT	-CCT	AGCAC	ATGTGT	AA	-G	TCA	-GAC	CGG	ACCGA	-CC	ACTGA	CAA	--	TCA	--A			
Gyki	-CC	TCT	-CCCC	GCAC	GATTGT	GA	-G	TCA	-GGC	AGG	ACCAA	-CC	ACTGA	TAA	--	CTA	--A			
Syka	CCT	TCT	-CCC	GCAC	ATGTGT	AA	-G	TCA	-GCT	CGG	ACAGA	-CC	ACTGA	CAA	--	TTA	--A			
Opma	CCC	TCT	-CCA	AGCAC	AAGTGT	AA	-G	TCA	-GAC	CGG	ACAAA	-CC	ACTGA	CAA	--	TTA	--A			
Comy	--	C	TCT	-CCG	GCAC	ACGTGT	AA	-A	TTA	-GAG	CGG	ACAAA	-CC	ACTGA	CAA	--	CTA	--A		
Sasp	CTC	TCT	CCT	-G	ACAC	ATGTGT	AA	-A	CCA	-GAC	CGG	ACTAA	-CC	ACTGC	C	--	AATTA	--A		
Eupe	CCC	TCT	CC	-CA	GCAC	TTGTGT	AA	-G	TCA	-GAC	CGG	AACAA	-CC	ACTGA	CAA	--	TTA	--A		
Enja	ACT	TCT	CCA	-CG	CAC	AAGTGT	AT	-G	TCA	-AAT	TGG	ACCAA	-CC	ATCGA	C	--	AATCA	--A		
Same	CCT	TCT	CC	-CA	GCAC	ACGTGT	AA	-G	TCC	-AAT	CGG	ACGAC	-CC	ATCGA	C	-A	--	ATT	-AA	
Chch	--	T	TCT	-CCC	AGCAC	GTGTGT	AA	-A	CCA	-GAT	CGG	ACACC	-CC	TCTGG	AAA	--	TTA	-A		
Grgr	--	C	TCT	CC	-CT	GCAC	ACGTGT	AG	-G	CCG	-GG	ACG	ACCAA	-GC	ACCGG	C	-A	--	AAT	-AA
Caau	-CT	TCT	CC	-AA	GCAC	AAGTGT	AA	-G	CCA	-AAT	CGG	ACTAG	-CC	ATTGG	CAA	--	CTA	--A		
Cyca	CCT	TCT	CCA	-AG	CAC	AAGTGT	AA	-G	CCA	-AAC	CGG	ACCAA	-CC	ATTGG	C	--	AACTA	-A		
Dare	--	T	TCT	-CCA	AGCAC	AAGTGT	AA	-G	CCA	-AGT	TGG	ACAAA	-CC	ATTGG	CAA	--	TTA	-A		
Cost	ATC	TCT	CCA	-G	GCAT	AAGTGT	AA	-G	CCA	-CCC	CGG	ATAAG	-CC	ACCGG	C	--	AATTA	-A		
Leec	CCC	TCT	CC	-TAG	CAC	AAGTGT	AA	-T	TTA	-GAC	CGG	ACTAA	-CC	ACTGA	AAA	--	TTA	-A		
CrIa	CCC	CCT	CC	-CG	GCAC	AAGTGT	AA	-G	CCA	-GAC	CGG	ACCCA	-CC	ACTGC	CAA	--	TTA	-A		
Clmc	-CT	TCT	CCT	CG	GCCT	ACGTGT	AA	-G	TTA	-GAT	CGG	ACAAC	-CC	ACTAA	CAA	--	TTA	-A		
Phin	CCT	TCT	CC	-TG	ACCC	ATGTGT	AA	-G	TCA	-GAC	CGG	ACCAA	-CC	ACTGA	TAA	--	TTA	-A		
Icpu	-CT	TCT	CC	-TAG	GCCT	ACGTGT	AC	-G	CTA	-AAT	TGG	ACCTA	-CC	ACTAG	C	-A	--	ATT	-AA	
Psto	CTT	TCT	CC	-TAG	GCCT	ACGTGT	AC	-A	CTA	-GAT	CGG	ACCCA	-CC	ACTAG	TAA	--	TTA	-C		
Cora	CCT	TCT	CC	-TAG	GCCT	AAGTGT	AA	-A	TTA	-GAT	TGG	ACCAA	-CC	ACTAA	AACATTTA	-A				
Eisp	CTT	TCT	CCT	-CAC	CC	AAGTGT	AA	-G	TCA	-GAC	CGG	ACCCG	-CC	ACTGA	C	--	AATTA	-A		
Apal	C	-T	TCT	CCT	AG	CCCC	AAGTGT	AA	-A	CTA	-GAT	CGG	ACCCT	-CC	ACTAG	CAA	--	TTA	-A	
Eslu	-CC	TCT	CC	-TG	GCAC	CTGTGT	AA	-G	TCC	-GGC	CGG	ACCC	-CC	ACCGA	TTC	--	TTA	-A		
Dape	TCC	TCT	CC	-CC	GCAC	TAGTGT	AT	-A	TCC	-GGC	CGG	ATATA	-CC	ACCGA	T	-C	--	CTT	-AA	
Glse	C	-C	TCT	C	-CCA	GCAC	ATGTGT	AA	-G	TCC	-GAT	CGG	ACCC	-CC	GCCGA	TTA	--	ATA	-A	
Naar	-CC	TCT	CC	-CA	ACAC	ATGTGT	AA	-G	TCC	-GAC	CGG	ACCC	-CC	ACCGA	CAA	--	ATA	-A		
Baoc	CCC	TCT	CC	-CA	ACAC	ATGTGT	AA	-G	TCC	-GAC	CGG	ACTCC	-CC	GCCGA	CAA	--	GTA	-A		
Opso	CCC	TCT	CCC	-GG	CAC	ATGTGT	AA	-G	TTC	-GAC	CGG	ACCC	-CC	ACCAA	C	--	AAGTA	-A		
Alte	CCT	TCT	CC	-CC	GCAC	ATGTGT	AA	-G	TTA	-GT	CGG	ACCTT	-CC	ACTAA	CAA	--	ATA	--A		
Plap	CCT	TCT	CCC	-AG	CAC	ACGTGT	TA	-G	TTA	-GCC	CGG	ACTCC	-CC	ACTAA	C	--	AAATA	--A		

Plal CCC**TCT**CCC-**CGCAC**ATGTGT**AA**-**GTTG**-**GACCGG**ACCCC-**CCGCCGA**C--AAATA--A
 Sami -CC**TCT**-CCTT**GCAC**ATGTGT**AA**-**GTCG**-**GACCGG**ACCCC-**CCACCGA**CAA--ATA--A
 Rere CCC**TCT**-CCCC**GTAC**ACGTGT**AT**-**GTCG**-**GACCGG**ACCCC-**CCACCGA**TGA---TT-AA
 Gama CCC**CCT**CCC-**CGCAC**CCGTGT**AA**-**ATCG**-**GACCGG**ACACC-**CCGCCGA**C--TATTA-A-
 Onmy CTC**TCT**CC-CA**GCAC**ATGTGT**AA**-**GTCG**-**GACCGG**ACCCC-**CCACCGA**C-A--AAT-AA
 Sasa T-C**TCT**C-CCA**GCAC**ATGTGT**AA**-**GTCG**-**GACCGG**ACCCG-**CCACCGA**CAA--ATA--A
 Cola CCC**TCT**CC-CA**GCAC**ATGTGT**AA**-**GTCG**-**GACCGG**ACCCC-**CCACCGA**CAA--ATA--A
 Dita CCC**TCT**CC-CC**GCGC**AAGTGT**AA**-**GTCG**-**GACCGG**ACCCC-**CCCTGGA**CAG--ATA--A
 Gogr --**CCT**CC-AA**GCAC**ATGTGT**AA**-**GTCG**-**AACCGG**ACCCA-**CCATCGA**C-A--AAT-AA
 Chsl CTC**CCT**CCC-**GCAC**AAGTGT**AA**-**GTCG**-**CACTGG**ACCCC-**CCGCCGA**C--AAATA-A-
 Atja -TC**CCT**CC-CA**GCAC**AGGTGT**AC**-**ATCG**-**GAACGG**ACAAG-**CCACCGA**AAG--TTA-A-
 lido ATC**CCT**CC-CC**GCAC**ATGTGT**AT**-**ATCG**-**GAACGG**ACAAA-**CCACCGA**AAA--TTA-A-
 Auja CCC**TCT**CC-CT**GCAC**ACGTGT**AA**-**TTCG**-**GAACGG**ACTCA-**CCACCGA**CAA--TTA-A-
 Chag --**CCT**CCGTA**GCAC**ATGTGT**AA**-**GTCG**-**GATTGG**ACACA-**CCACCGA**CA---TTT-AG
 Hami CCC**TCT**CC-GT**GCAC**ACGTGT**AA**-**GTCG**-**GAACGG**ACCCC-**CCACCGA**CA--ATT-AA
 Saun CCC**TCT**CC-CA**GCAC**ACGTGT**AA**-**GTCG**-**GAACGG**ACCCC-**CCGCCGA**CAG--TTA-A-
 Nema CCC**TCT**CCAAT**GCAC**AAGTGT**AC**-**CTCG**-**GAACGG**ACCCC-**CCACCGA**C--AGTCA-A-
 Disp TCC**TCT**CC-CT**GCAC**ACGTGT**AA**-**ATCG**-**GAACGG**ACCCA-**CCGCCGA**CAA--CTA--A
 Myaf CCC**TCT**CCGTC**ACAC**ATGTGT**AA**-**GTCG**-**GAGCGG**ACCCG-**CCCCCGA**TAA--CTA-A-
 Lagu GCC**TCT**CC-TT**GCAC**AAGTGT**AC**-**CCCG**-**GCCTGG**ACCCC-**CCACCGG**AAA--CTA-CC
 Trtr ACC**CCT**CC-CT**GCAT**AAGTGT**AC**-**CTCG**-**GACCGG**ACCAC-**CCCCCGA**ACA--TTA-TA
 Zucr -CC**CCT**CC-TT**GCAT**AAGTGT**AA**-**CTCG**-**GACCGG**ATTCC-**CCACCGA**AAT--TTA-TC
 Pxja CCC**TCT**CC-CT**GCAC**ATGTGT**AA**-**GTCG**-**GAACGG**ACCTA-**CCACCGA**CAA--ATA-AC
 Pxlo CCC**TCT**CCC-T**GCAC**ATGTGT**AA**-**GTCG**-**GAACGG**ACCTC-**CCACCGA**C--AAATA-AA
 Pctr CCC**TCT**CC-CA**GCAC**CCGTGT**AA**-**GTCG**-**GAGCGG**ACCCG-**CCACCGA**CCA--TTA-AC
 Apsa CCC**TCT**CC-AA**ACACC**AGTGT**AT**-**ATCG**-**GAACGG**ACACC-**CCACCGA**CCA--TTA--A
 Cabe CCC**CCT**CC-T**GCAC**ACGTGT**AT**-**AGCG**-**AAACGA**ACCC--**TCAATCGG**CAA--CTA-A-
 Bzze TTC**TCT**CC-CA**ACACA**AAGTGT**AA**-**ATCG**-**GATCGG**ACCCC-**CCGCCGA**CTA--TTA-A-
 Siim --**CCT**CCTAC**ACACA**AAGTGT**AA**-**GTCG**-**AAACGG**ACCAC-**CCATCGA**CCA--TTA-A-
 Ctru CCC**TCT**CC-TT**GCAC**AAGTGT**AA**-**ATCG**-**GAACGG**ACCCA-**CCACCGA**CCC--CTA-TC
 Dpbr -CC**TCT**CC-TT**GCAC**AAGTGT**AA**-**ATCG**-**GAACGG**ACCCA-**CCACCGA**CCC--CGA-CC
 Caki TCT**TCT**CC-CA**GCAT**AAATGT**AA**-**GTCG**-**GACCGG**ACCAC-**CCACCGA**TTA--CTA-CA
 Phja C-T**TCT**CC-T**GCAC**AGTGT**AT**-**GTTG**-**GAACGG**ACCCC-**CCACCA**CAG--TTA-TT
 Brsp TAT**TCT**CC-TT**GCAC**ATGTGT**AC**-**CTCG**-**GAACGG**ACCAG-**CCACCGA**ATA--TTA-AT
 Gamo TCT**TCT**CC-T**GCAC**ATGTGT**AA**-**GTCG**-**GAACGG**ACCTC-**CCACCGA**CTA--TTA-AT
 Lolo TCT**TCT**CCC-**AGCAC**ATGTGT**AA**-**GTCG**-**GAACGG**ACCTC-**CCACCGA**C--TATTA-AT
 Batr -CA**CCT**CC-T**GCACA**ACTAT**AA**-**GTCG**-**TAAAT**-----**ATTGA**TCT--TTA-TT
 Prmy -CC**TCT**CC-TT**ACAT**ACCTGT**TT**-**ATCA**-**CCCCG**AACCA-**CCATTGA**AAA--TTA-CT
 Loli CTT**TCT**CC-T**GCAC**CCGTGT**AC**-**ATCG**-**GAACGA**ACCC--**CCACCGA**AAA--TCA-A-
 Loam TTC**TCT**CCT-**AGCAC**AAGTGT**AA**-**ATCG**-**GAACGA**ACCC--**CCACCGA**A--AATTG-A-
 Chab -CC**TCT**CC-CT**GCAC**AAGTGT**AA**-**ATTC**-**GAACGG**ACCCC-**CCACCGA**ACT---TT-AA
 Chto CCC**TCT**CC-CT**GCAC**AAGTGT**AA**-**ATTC**-**GAACGG**ACCAC-**CCACCGA**ACT--TT-A-A
 Majo CTC**TCT**CC-TT**GCAC**AAGTGT**AA**-**GTCG**-**GAACGA**ACCCG-**CCACTGA**ACC--TT-A-A
 Hlst --**TCT**CCCAC**ACACA**AAGTGT**AC**-**ATCG**-**CCCCGG**ACCAC-**CCACCGA**AAC--TCA-A-
 Clpe -CC**TCT**CCCC**GCACA**ACTGT**AT**-**ATCG**-**GATCGG**ACACC-**CCGCCGA**ACT--TTA-A-
 Mlmr -CC**TCT**CC-CC**GCAC**AAGTGT**AA**-**GTCG**-**GAACGG**ACCCC-**CCACCGA**GCT--TTA-A-
 Crcr T-C**TCT**C-CCC**GCAC**ATGTGT**AA**-**ATCG**-**GAGCGG**ACTCC-**CCACCGA**AAC--TTA--A
 Muce CTC**TCT**CCC-**CGCAC**ATGTGT**AA**-**ATCG**-**GAGCGG**ACTCC-**CCACCGA**A--ACTTA-A-
 Bege --**TCT**CC-CC**GCTC**AAGTGT**AA**-**CTCG**-**GAACGG**ACCCC-**CCACCGA**AAA--TTA-A-
 Mela T-C**TCT**C-CAC**GCACC**AAGTGT**AA**-**CCCG**-**GAACGG**ACCCC-**CCGCCGG**CCA--TTA--A
 Hats CTC**TCT**CC-GT**ACACA**AAGTGT**AA**-**TTCG**-**GAACGG**ACCCC-**CCACCGA**GCA--TTA-A-
 Orla -CT**TCT**CC-TT**GCAC**ACGTGT**AA**-**ATCG**-**GAACGG**ACAAA-**CCACCGA**ATT--TTA-A-

Cosa - -C**TCT**CCC-C**GCAC**AAGTGT**AA**-A**TCA**-**TAAACAG**ACAAA-**CTACTGA**ACA--TTA-A-
 Exsp -TC**TCT**CC-AA**GCAT**AAGTGT**AT**-A**TCA**-**GAACAG**ACATC-**CTGCCGA**GAA--TTA-A-
 Depa ACC**TCT**CCA-AG**GCAC**AAGTGT**AA**-A**TCA**-**ATACAG**ATTAA-**CTATTGA**A--TATTA-A-
 Rima T-C**TCT**CT-AA**GAGT**ATCTGT**AA**-C**TCC**-**GAACGG**ACCCA-**CCGCCGA**A-A--ATT-AA
 Fuol TTC**TCT**CC-AT**GCAT**AAGTGT**AA**-A**TCC**-**GAACGG**ACAGA-**CCACCGA**ACA--TTA-A-
 Gmaf TTC**TCT**CC-CC**GCAC**ATGTGT**AA**-G**CCG**-**GCTCGG**ACCAC-**CCACCGG**CAA--TTA-A-
 Xeei -TC**TCT**CC-GA**ACAC**ATGTGT**AC**-A**TCC**-**GAACGG**ACCAC-**CCTCCGA**AAT--TTA-A-
 Pros -TT**TCT**CC-TT**GCAC**AAGTGT**AA**-G**TCC**-**GAACGG**ACCTT-**CCACCGA**CCC--CTA-AC
 Scmi TTT**TCT**CC-TT**GCAC**ACATGT**AA**-G**TCC**-**GATCGG**ACTCC-**CCACCGA**CCC--CTA-AC
 Rolo CCT**TCT**CC-CC**GCAC**ACGCGT**AT**-A**TCC**-**GAACGG**ACTCC-**CCACCGA**CCC--ACA-AC
 Cere CCT**TCT**CC-TA**GCAC**ACGCGT**AC**-A**TCA**-**GAACGG**ACCCC-**CCACCGA**CCA--TTA-AT
 Daga -CC**CCT**CC-TA**GCAC**GCGTGT**AC**-A**TCC**-**GAACGG**ACCAA-**CCTCCGA**CTA--TTA-AA
 Anco CCC**TCT**C-CTT**GCAC**ACGTGT**AC**-A**TCC**-**GAACGG**ACTAC-**CCACCGA**TAA--ATA-AA
 Dmve CCC**TCT**CC-TT**GCAC**TAGTGT**AC**-A**TCC**-**ACATGA**ACCCA-**CCACCGA**CCA--TTA-AA
 Dmar CCC**TCT**CC-TT**GCAC**AAGTGT**AC**-A**TCC**-**ACATGG**ACCCA-**CCACCGA**CCA--TTA-AA
 Anka CCC**TCT**CC-CC**GCAC**ACGTGT**AA**-G**TCC**-**GAACGG**ACAAC-**CCACCGA**CCA--TTA-AA
 Moja - -C**TCT**CCC-C**GCAC**ACGTGT**AT**-G**TCC**-**GAACGG**ACCCA-**CCACCGA**CCA--TTA-AA
 Hoja CCC**TCT**CC-TA**GCAC**ACGTGT**AT**-G**TCC**-**GAACGG**ACCTT-**CCACCGA**CCA--TTA-AA
 Bede TTT**TCT**CCT-T**GCAC**AAGTGT**AC**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**C--CCTTA-AC
 Bosp TTT**TCT**CC-TT**GCAC**AAGTGT**AC**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**CCC--TTA-AC
 Mysp CTT**CCT**CC-CC**GCAC**AAGTGT**AC**-A**TCA**-**GAACGG**ACCCTT**CCACTGA**CCA--ATT-AC
 Osja CCT**TCT**CCC-T**GCAC**ACGTGT**AC**-A**TCA**-**GAACGG**ACTCC-**CCCACTG**ACCAATTA-AC
 Sgro CGT**TCT**CC-AC**GCAC**ACGTGT**AC**-A**TCA**-**GAACGG**ACTAAC**CCACTGA**TCC--ATT-AC
 Pzpa - -T**CTT**CC-TG**ACAC**ATGTGT**AC**-C**ACG**-**GAGCGG**ATAAA-**CCACCGT**CCA--CTA-AT
 Zeja ACT**TCT**CC-TA**ACAC**ATGTGT**AA**-G**TCC**-**GAACGG**AAAAA-**CCACCGA**CCA--CTA-AC
 Znne - -T**TCT**CC-TA**ACAC**ATGTGT**AC**-C**TCC**-**GAACGG**AAAAT-**CCACCGA**CTA--ATA-GC
 Zefa -CT**TCT**CC-TA**ATAC**ATGTGT**AT**-C**TCC**-**GAACGG**AAAAC-**CCACCGA**TCA--TTA-GC
 Acni -CT**TCT**CCCAA**ACAC**ATGTGT**AC**-G**CCG**-**GAACGG**ATAAG-**CCACCGA**CCA--CTA-AC
 Ncrh -CT**TCT**CC-CA**ACAC**ATGTGT**AC**-A**CCG**-**GAACGG**ATAAG-**CCACCGA**CCA--CTA-AC
 Agca CTC**TCT**CC-CC**GCAC**AAGTGT**AT**-C**TCC**-**GAACGG**ACCCC-**CCACCGA**ACC--TTA-C-
 Hydy CCC**CCT**CC-CC**GCAC**ACGTGT**AC**-A**CCG**-**GAACGG**ACCAC-**CCGCCGA**CTC--TTA-A-
 Gsac CTC**CCT**CC-CC**GCAC**ACGTGT**AC**-A**TCC**-**GAACGG**ACAAC-**CCGCCGA**CCT--TTA-A-
 Pevo CTC**TCT**CC-TA**GCAC**AAGTGT**AA**-C**TCC**-**GAACGG**ACT-C-**ACACCGA**AAA--CCA-A-
 Hiku CTC**TTT**TT-TA**GCAA**AAGTGT**GC**-C**TCC**-**GATCGA**AC-TA-**ACACCGA**AAT--TTA-A-
 Inpa CTT**TCT**CC-TA**GCAC**ACGTGT**AA**-A**TCC**-**GCACGG**AACAA-**CCACCGA**ACA--TTA-A-
 Auch CTC**TCT**CCC-AG**GCAC**AAGCGT**AC**-C**TCC**-**GAACGG**ACCC--**GCACCGA**A--ATTCA-A-
 Fico CTC**TCT**CC-AC**GCAC**ATGTGT**AC**-C**TCC**-**GAACGG**ACCT--**GCACCGA**ATT--TTA-A-
 Macs -TT**TCT**CC-CT**GCAC**AAGTGT**AA**-A**TCC**-**GAACGG**ACCC--**CCACCGA**AT---CCT-AA
 Moal CTC**TCT**CC-CC**ACAC**AAGTGT**AA**-A**TCC**-**AAACAA**ACCC--**CAACCGA**AAA--TTA-A-
 Syma T-C**TCT**C-CAG**ACAC**TAACGT**AC**-A**TCA**-**AAACGA**ACCC--**ACATCGA**AAA--TTA--A
 Mafr CTC**TCT**CC-CA**GCAT**CTGTGT**AC**-A**TCC**-**GAACGG**ACACC-**CCACCGA**ATA--TTA-A-
 Dcpe CTC**TCT**CC-TA**GCAC**ATGTGT**AA**-A**TCC**-**GAACGG**ACTC--**ACACCGA**ACT--TTA-A-
 Dcti CTC**TCT**CC-CG**GCAC**ATGTGT**AA**-A**TCC**-**GAACGG**ACCC--**ACACCGA**AC--TTT-AA
 Hehi CTC**TCT**CCC-T**GCAC**ACATGT**AA**-T**TCC**-**GAACGG**AC-CC-**GCACCGA**G--CATTAA-
 Stam -TC**TCT**CC-CT**GCAC**ACGTGT**AA**-G**TCC**-**GAACGG**ACTCC-**CCGCCGA**CCC--TTA-A-
 Hogi ATC**TCT**CC-TA**GCAC**ATGTGT**AA**-A**TCC**-**GAACGG**ACTCC-**CCTCCGA**ACA--TTA-A-
 Erzo CTC**TCT**CC-TT**GCAC**ATGTGT**AC**-G**TCC**-**GAACGG**ACACC-**CCGCCGA**CTC--TTA-A-
 Hxot CTC**TCT**CC-CT**GCAC**ACGTGT**AT**-A**TCC**-**GAACGG**ACAAC-**CCACCGA**ACC--TTA-A-
 Core -TC**TCT**CC-CC**GCAC**ACGTGT**AC**-A**TCC**-**GAACGG**ACACT-**CCACCGA**C-A--ATT-AA
 Apve CTC**TCT**CC-CT**GCAC**ACGTGT**AC**-C**TCC**-**GAACGG**ACAAC-**CCGCCGA**CTC--TTA-A-
 Latj CCC**TCT**CC-TA**GCAC**ACGTGT**AC**-A**TCC**-**AAACGG**ACCCG-**CCACCGA**AA---CTT-AA
 Laja CTC**TCT**CC-TT**GCAC**AAGTGT**AA**-A**TCC**-**GACTGG**ACTCC-**CCGCCGA**AAA--TTA--A

Syja -TC**TCT**CC-CT**GCAC**ACGCGT**AA**-A**TCC**-**GAGTGG**ACCTC-**CCACCGA**ACC--TTA-A-
 Epme CTC**TCT**CC-CT**GCAT**GCGTGT**AA**-A**TCCG****AAACGG**ACAAC-**CCACCGA**CC---CTT-AA
 Grse T-C**TCT**CTCCA**ACAC**ACGTGT**AA**-C**TCC**-**AAACGG**ACAAA-**CCATCGA**ATA--CTA--A
 Clja -TC**TCT**CC-CC**GCAC**AAGTGT**AA**-A**TCC**-**GAGCGG**ACCAC-**CCACCGA**ATA--ATA-AC
 Ogcy C-C**TCT**CC-TG**ACAC**CCGCGT**AG**-A**TCC**-**GATCGA**ACCAA-**GCTCCGA**A-A--ATT-AA
 Plna -TC**TCT**CC-TT**GTAC**AAGTGT**AA**-A**TCC**-**AAACGG**ACCCC-**CCACCGA**AAC--TTA-A-
 Lema -TC**TCT**CC-CC**GCAC**ATCCGT**AA**-C**TCC**-**GAACGG**ACTA-A**CCACCGA**ACT---TT-AA
 Etzo -TC**TCT**CC-TT**GCAC**GTGTGT**AA**-A**TCC**-**GAACGG**ACACC-**CCACCGA**A-C--CTT-AA
 Apse ATC**TCT**CC-CT**GCAC**AAGTAT**AT**-A**TCC**-**GAACGA**ACTA--**ACACCGA**CAA--TTA-A-
 Epde -TC**TCT**CC-TT**GCAC**ACGTGT**AA**-A**TCC**-**CAATGG**ACTTC-**CCACCGA**ATA--TTA-A-
 Slja --C**TCT**CCT-C**GCAC**AAGTGT**AA**-T**TCC**-**ATACGG**ACCTA-**CCATCGA**AAA--TTA-A-
 Bsja CTC**TCT**CC-TC**GCAC**ACGTGT**AA**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**ACT--TTA-A-
 Ecna CCC**TCT**CC-CT**GCAC**ATGTGT**AT**-A**TCC**-**GAACGG**ACAAA-**CCACCGA**CC---ATT-AA
 Cohi T-C**TCT**C-CTG**GCAC**AAGTGT**AA**-A**CCG**-**GAAAGG**ACTTC-**CCGCCGG**AAA--TTA--A
 Caar CTC**TCT**CC-TA**GCAC**ATGTGT**AA**-G**TCC**-**GAACGG**ACCAA-**CCACCGA**ATA--ATA-A-
 Came CTC**TCT**CC-TA**GCAC**ATGTGT**AA**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**ACA--ATA-A-
 Mema CCC**TCT**CC-CT**GCAC**ACGTGT**AC**-A**TCC**-**GAACGG**ACCAA-**CCACCGA**ACA--TTA-AA
 Lenu CTC**TCT**CC-CG**GCAC**AAGCGT**GA**-A**TCC**-**AAACGA**ACC-C-**CCATCGA**TCA--TTA-A-
 Brja CTT**TCT**CC-TG**ACAC**ACGTGT**AA**-A**TCA**-**GAACGA**ACCC--**CCACTGA**AAC--TTA-C-
 Plma CTC**TCT**CC-TC**GCAC**ACGTGT**AA**-C**TCC**-**GAACGA**ACC-C-**CCACCGA**AAC--TTA-A-
 Emst CTC**TCT**CC-CT**GCAC**ACGCAT**AA**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**ACC--TTA-A-
 Ptti CTC**TCT**CC-TC**GCAC**ACGTGT**AA**-A**TCC**-**GAACGG**ACCTC-**CCACCGA**ACC--TTA-AC
 Losu CCC**TCT**CC-CC**GCAC**ACGTGT**AA**-A**TCC**-**GTACGG**ACCAA-**CCACCGA**AAC--TTA-A-
 Geoy CTT**TCT**CCC-C**GCAC**AAGTGT**AC**-A**TCC**-**GAACGA**ACAAA-**GCCCGGA**ACC--TTA-A-
 Dipi CTC**TCT**CCT-C**GCAC**AAGTGT**AA**-A**TCC**-**GAACGG**ACATT-**CCACCGA**A--ATTTA-A-
 Pama CTC**TCT**CC-CT**GCAC**AAGTGT**AC**-C**TCC**-**GAACGG**ACCAA-**CCACCGA**ATC--TTA-A-
 Leob CCC**TCT**CC-TT**GCAC**AAGTGT**AC**-A**TCA**-**GAACGG**ACCCC-**CCACCGG**AAA--TTA-A-
 Neba -TC**TCT**CC-TT**ACGC**AAGTGT**AC**-A**TCC**-**GAACGG**AGCCA-**CCACCGA**AAC--TTA-A-
 Pdpi CCC**TCT**CC-CA**GCAC**ACGTGT**AC**-A**TCC**-**GAACGA**ACCCC-**CCACCGA**AAA--TTA-AC
 Nimi T-C**TCT**C-CAC**GCAC**AAGTGT**AA**-C**TCC**-**GATCGG**ACTCC-**CCGCCGA**ACC--TTA--A
 Uptr CTC**TCT**CC-TT**GCAC**AAGTGT**AA**-G**TCA**-**GAACGA**ACC-C-**GCACTGA**ACC--TTA-A-
 Pesc -TT**TCT**CC-TA**GCAC**ACATGT**AC**-C**TCC**-**GAGCAG**ACTA-A**CTACCGA**ACC--TTA-A-
 Baar CTC**TCT**C-CTT**GCAC**ACGTGT**AA**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**AAT--CTA-A-
 Moar CTC**TCT**C-CCT**GCAC**ACCTGT**AC**-A**TCC**-**GAACGG**ACCAC-**CCACCGA**ATA--TTA-A-
 Toja CTC**TCT**CC-CC**GCAC**ACGTGT**AA**-A**TCC**-**GAACGG**ACCC-**CCACCGA**AAC--TTA-AA
 Chau CTC**TCT**CC-TA**TACA**AAGTGT**AA**-A**TCC**-**AAATGG**ACCTA-**CCATCGA**AT---ATT-AA
 Chse CTC**TCT**CC-CC**GCAC**AAGTGT**AA**-A**TTC**-**GAACGG**ACTAC-**CCACCAA**ACC--TTA-A-
 Enar CTC**TCT**CC-CT**GCAC**ACCTGT**AA**-A**TCC**-**CAATGG**ACCTT-**CCACCGA**ATC--TTA-A-
 Hpty -TC**TCT**CC-CT**GCAC**ACGTGT**AA**-A**TCC**-**GAACGG**ACCC-**CCGCCGA**ACC--TTA-A-
 Nana TT**TCT**CC-GC**GCAC**ACATGT**AA**-A**TCC**-**GAACGG**ACCC-**CCACCGA**ATA--TTA-AC
 Mcst CTC**TCT**CC-TT**GCAC**ACGTGT**AA**-A**TCC**-**CAATGG**ACCAA-**CCACCGA**ACT--TTA-A-
 Rhox -TC**TCT**CCC-C**GCAC**AAGTGT**AA**-C**TCC**-**CAATGG**ACCTA-**CCACCGA**ACC--TTA-A-
 Opfa CTC**TCT**CC-TT**GCAC**ACGTGT**AA**-A**TCC**-**AAATGG**ACCCG-**CCACCGA**ATC--TTA--A
 Paar CTC**TCT**CCT-C**GCAC**AAGTGT**AA**-A**TCC**-**CAATGG**ACACC-**CCGCCGA**A--CATT-AT
 Gozo CTC**TCT**CC-TT**GCAC**ACGTGT**AA**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**AT---CTT-AA
 Ackr -CT**TCT**CC-CC**GCAC**AAGTGT**AA**-A**TCC**-**TAATGG**ACCAA-**CCACCGA**AAA--TTA--C
 Elev CTC**TCT**CCA-C**GCAC**AAGTGT**AC**-A**TCC**-**GCATGG**ACCAT-**CCACCGA**A--CCTTA-A-
 Trdu GCC**TCT**CC-CC**GCAC**AAGTGT**AA**-C**TCC**-**GAACGA**ACCCT-**TCCACCGA**CCA--TTA-A-
 Amoc CCC**TCT**CC-CC**GCAC**ATGTGT**AT**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**AC---TTT-AA
 Hame -TC**TCT**CCCTG**ACAC**AAGTAT**AA**-A**TCC**-**GAACGG**ACCCC-**CCACCGA**AAC--TTA-A-
 Chso -TC**TCT**CC-GT**GCAC**ACGTGT**AC**-G**TCC**-**GAACGA**ACCC--**CCGCCGA**TCC--TTA-A-
 Lyto CTC**TCT**CCC-T**GCAC**ACATGT**AC**-G**TCC**-**GAACGG**ACATC-**CCGCCGA**C--CATT-AT

Encr CTC TCT CC-CT GCAC ACGTGT AC-G TCG -GAACGG ACACC-CC ACCGA CCA--TTA-A-
 Bvar CTC TCT CC-TT GCAT GCGTGT AC-A TCG -GTACGG ATCAA-CC ACCGA ATA--TTA-A-
 Noco TAT TCT CC-CC GCAC GCGTGT AA-A TCG -GAATGG ACCCC-CC ACCGA ATA--TTA-A-
 Chsp -TA TCT CCTCC GCAT ACCTGT AA-A CCG -AACCGA ACTCT-TCC GCGG A-A--ATT-AA
 Arja CTC TCT CC-CC GCAC ACGTGT AC-G TCG -GAACGG ACAA-CC GCGGA CTC--TTA-A-
 Pase CCC TCT CC-TT TCAC AAGTGT AAGA TCG -ATATGG ACCCG-CC ATCGT CAA--TTA-A-
 Trel --C TCT CCG-GGCAT AAGTGT AC-G TCG -GAACGG AC-CC-TC ACCGA CAA--TTA-A-
 Lifa -TT TCT CCCGC GCAC AAGTGT AC-A TCA -GATCGG AATAA-CC ACTGA TAA--TTA-A-
 Acur TTT TCT CC-TG GTAT TTGTGT AA-A TCG -GGTTGG ACATC-CC GCGGA G-A--ATT-AA
 Ampe -TC TCT CC-TT GCAC GAGTGT AA-A TCA -AAACGG ACCT-CC ATCGA ATC--TTA-A-
 Urja CCC CCT CC-CT GCAC ACGTGT AA-A TCG -GAACGG ACCCC-CC ACCGA ACT--TTA--A
 Enet ACC TCT CC-TG GCAC AAGCAT AC-C TCG -GAACGG ACTAA-CC CCGGA ACT--TTA--A
 Ptbr ATC TCT CCT-GCCAT AAGTGT AA-A TCA -GATTAG ACTTA-CT ACTGA A--AATTA-TT
 Safa -GC TCT CC-TA ACAC CTGTGT AA-A TCA -GAACGG ACCCC-CC ACTGA AAA--TTA-A-
 Icae -TC TCT CC-TT GCAC ACGTGT AA-A TCG -GAACGA AC-C-CC ACCGA AAC--TTA-A-
 Asmi -TC TCT CC-AA GCAC AAGTGT AC-A TCG -GAACGG ACAC-TCC ACCGA AAT---TT-AA
 Foal -CC CCT CC-TT GCAC AAGTGT AA-G TCG -GAGCGA ACAC-CC GCGGACTCT--TAA---
 Drze -TC TCT CT-AT ACAT AAGTGT AA-A TTA -GAACGA ACCC--AC ACTAA ACA--TTA-A-
 Rhas -CC TCT CC-CA GCAC CTGTGT AC-A TCA -GAACGA ACC-C-CC ACTGA A-A--ATT-AA
 Elac --C TCT CC-TA GCAC CCGTGT AT-A TCA -GAACGA ACC-C-CC ACTGA AAA--TTA--A
 Kugu ATC TCT CC-CC GCAC ACATGT CA-A TCA -GAACGA ACC-C-GC ACTGA AAA--TTA-A-
 Plor -CC TCT CC-TT GCAC ACGTGT AA-A TCG -GAACGA ACCC--CC ACCGA ACC---TT-AA
 Sgun CTC TCT CCT-AG GCAC ACGTGT AA-A TCG -GAACGA ACCC--CC ACCGA G--TATTA-A-
 Zaco CTC TCT CCT-TGCAC ACACGT AT-A TCG -GAGCGG ACCT--CC ACCG AA-TCTTA-A-
 ZbfI CCC TCT CC-CC GCAC ACGTGT AA-A TCG -AAACGG ACCAT-CC ATCGA AAC--TTA--A
 Spba CTC TCT CCC-TGCAT GCGTGT AA-A TCG -GAACGG ACCCC-CC ACCGA A--CATTAA-
 Game -TC TCT ACCTT GCAC ACGTGT AA-A TCG -GAACGA ACCC--CC ACCGA AA---CTT-AA
 Thth CTC TCT CCT-TGCAC ACGTGT AA-A TCG -GAACGA ACCC--CC ACCGA A--ACTTA-A-
 Xigl CTC TCT CC-TT GCAC ACGTGT AA-A TCG -GAACGG ACCTA-CC ACCGA ATC--TTA-A-
 Hyja -TC TCT C-CCT GCAC ACGTGT AT-A TCG -GCTACG AACCC-CC ACCGA AAC--TTA--A
 Psan TCC TCT CC-CT GCAC ATGTGT AT-A TCG -AGTACG AACCC-CC ACCGA AAC--TTA-A-
 Cupa CTC TCT CC-TT GCAC ACGTGT AT-A TCG -GAACGA ACCC--CC ACCGA AA---CTT-AA
 Mpch CTC TCT CC-AC GCAC ACGTGT AT-A TCG -AAACGG ACACT-CC ACCGA AAA--TTA--C
 Char T-C TCT C-CTA GCAC GCACAT AC-A TCG -GAACGG ACCCC-CC ACCGA ACA--TTA--C
 Pser CTC TCT CC-CC GCAT AAGTGT AA-A TCG -AAACGG ACCCC-CC ATCGA TAT--TTA-AA
 Prol -TC TCT CC-TCCGCAT ATGTGT AA-A TCG -GAACGG ACCC-CC ACCGA CTC--TTA-A-
 Plbi CTT TCT CC-TT GCAC ATGTGT AA-A TCG -GAACGG ACCCC-CC ACCGA A-T--CTT-AA
 Calu GCT TCT CC-CC GCAC ACCCAT AA-A TCG -GAACGG ACAAC-CC ACCGA ATA--TTA-A-
 Papa CCC TCT CC-CAGTAC AAGTGT AA-G TTG -GCACAC GACCA-AA GCCAA CTA--TTA--A
 SufR --T TCT CC-AA GCAC AAGTGT AC-A CCG -GAACGA ACCC--GC ACCGA ACA--TTA--A
 Stci CTT TCT CC-AG GCAC AAGTGT AT-A TCG -GAACGA ACCC--GC ACCGA ACA--TTA--A
 Taru C-CCT C-CAA GCAC AAGTGT AC-A TCA -GAACGA AC-CC-CC ACCGA AAT--TCA--A
 Rala TTC TCT CC-CA GCAT AAGTGT AC-A TCG -GAACGA ACCC--CA ACCGA ATC--CTA-A-

Scca **CGA**TCCCAGAC-T-GAGGCCATC--ATAACT-TCATTTT- TTGA---CTAGAAA---ACCC
 Muma **CGA**CCCCAGACT--GAGGTCATT--ATACTA-TT--A--AATCATTAACTAGAAAAACCTTA
 Erca **CGA**ACCCCATAA--GAGGGAAGA--ATAATGGACATAT---ATAAATCAAGGAAAACCTAT
 Pose **CGA**ACCCACCGG--AGGAGCAA--TAATA--CACAT-AACAAA-A-ACAAGAAAACC--C
 Actr **CGG**ACCCAACCAA-A-GAGGGAA--ATACAG-AATAATAATAG-A-AATCAAGAAAACCT
 Scal **CGG**ACCCAACC-A-AAGAGGGAA--ATACAG-TATAATA-ATAGA-AGTCAAGAAAACCT
 Posp **CGA**CCCA-CCAA--AGAGGGAA--ATNCRG-AATACCAATG-AACTCAAGAAAA-CCTG
 Atsp **CGA**ACCCAACCAA--AGAGGGCA--GTA--TTCACACAAACCCCAA-ACAAGAAGA--ACT
 Leoc **CGA**ACCCAAC-CA-AAGAGGGCA--AT-ATTTATAT-ATCCTAAA---CAAGAAAAGCTTA
 Amca **CGA**ACTCACACA--AAGAGAGAA--TTACAC-AAATA-GCACGACATACTAGAAGACCCCTG
 Osbi **TGA**ACCCAACCAA--AGAGGGCA--TTA--CAGACCAAAAA-CTAT-CCTAGAAAATCCTG
 Pabu **AGA**ACCCAATCAA--AGAGGGAA--TCACAAT-ATAAACATAAACA---AGAAAAACATG
 Hial **CGA**ACCCAACA-A-AAGAGGGAA--GCACAA-G--ACAC-AACATAACCAAGAAAAATCTG
 Elha **CGG**ACCCAATAC--AAGAGGGAA--ATGAAA-CAAAAACCAAACCAAGAAGAA---GCTA
 Mlcy **CGG**ACCCAAA-CC-AAGAGGGAA--ATGCA--ACAAACA-CCAATAACCAAGAAAAAACT
 Algl **CGA**ACCCAAACAG-A-GGGGCGT--GTAGAA-CAAACGATAAC-----CTGAAAAATCTTA
 Ptgi **CGA**ACCCAGATA--AAGAGGGAA--ACGCAGAAAACAA--ACAACACCAAGAAATACCTA
 Alaf **CGA**ACCCTAAC--AAGAGGGCA--TCATCTTCAATAAACACAA--ATCAGGAAAACCCC-
 Nock **CGA**ACCCTATGATA-A-GAGGGAA--TCATTTTATGATAATTGAG-ATCAAGAAAACCCAA
 Anja **CGG**ACCCAACAG--AGAGAAAA--GAACAACTACAAAA-ACAAGAAAAAT--CTATT
 Gyki **CGG**ACCTAATA-----GAAGGCA--AAGCAA-AG-GAAA-AATAACATACAAGAATTCCAT
 Syka **CGA**ACCCAAA-AAT-GAGGGGACA--ACAACA-ACCTA-CAA-TAAAACAAGAAAACCTG
 Opma **CGG**ACCCAGACC-C-TGAGGGAAA--AACAAT-TGAACAAATAA---CAAGAAGATCTTG
 Comy **CGG**ACCCAAA-A--AAGAGGGTA--AAACAA-C-AAA-ACTCAATAACAAGAAAAACCTA
 Sasp **CGA**ACCCAGTAAT--ACTTGAGGG--CCAAGTAGAAGGT-ATTATTGTATCTAGAAAATTC
 Eupe **CAG**C-CCCAGAA--GAGAGTAA--ACAACA-AACAC-CATAACGCAAGAAAATACTGTCA
 Enja **CGA**ACCCAACAA--AAGAGGGCC--CTACACACCCGCC-ACCTCTGACCAAGAAAACTATG
 Same **CGA**ACCCAATAA--AGAGGGTA--TTACATC-ACTGCCATCCCAGGCCAAGAAAACCATG
 Chch **CGA**ACTCAATCA--AAGAGAGCA--GTGCGA-AGTTA--AAAAGAGACCAGGAAGGCCCCG
 Grgr **CGA**ACTCAACT-C-TAGAGAGCA--CTGTGG-TTCCCAACAAAAACAG---AAAAACCC
 Caau **CGA**ACTCAACCC--AAGAGAGCA--ATGTGG-TATTA-CAAAAAA-CCTAGAAAAAC--C
 Cyca **CGA**ACTCAATCA--AAGAGAGCA--ATGTGAATTACAA-AA---AAACCAAGAAAAATCCA
 Dare **CGA**GCCCAAC-A-AAGAGGGCA--ATGTGA---GTTA-AAAACCTGA---GAAAAATCCA
 Cost **CGA**GCCCAATAA--AAGAGGGTA--ATATAACTAA---TATAAATTACAAGAAAATCATA
 Leec **CGA**ACCCAGA-AAA-A-GAGGGCA--GTGT-T-GACAA-TAAAAAATCAAGAAAACCCCA
 CrIa **CGA**ACCCAAAA--A-AAGAGGGAT--GCATG-----GAAGACAAAAACCAAGAAAACCCC
 Clmc **CGA**ACCCACCCCA-A-GAGGGAA--AAATGA-TATATAATAAAAC-CAAG-AAAAACCCAC
 Phin **CGA**ACTCACCCAA---GAGAGTAATGT-TCCAAAACCATAA-ACAAGAAAAC---CCCA
 lcpu **CGA**ACCCAATT-A-AAGAGGGCA--TTATG--GTTATA--TTAAATATC--AAGAAATCTC
 Psto **CGA**ACCCAATC-A-AAGAGGGAA--ATGTGA-ACACCTA-AAAC--ACCAAGAAAACCTCA
 Cora **CGA**ACCCAATAC-AAGAGGGAA--ATGTGA-GCCAAAT-AAACAA--CAAGAAAACCTCA
 Eisp **CGA**ACCTAATCA--AAGAAGGCC--ACGTGGCCTAATA-CA-ATTAACCAAGAAAACCCCA
 Apal **CGA**ACC-CAACCA--AAGAGGGCA--TTGTGA-CCTC--AACAAATAACAAGAAAACCCCA
 Eslu **CGA**ACCCAACC-A-AGAGTGTAT--TGTA-----AC-CCAA--ACAAGAAAATCTA
 Dape **CGA**ACCCAAAACA--AGAGGGCC--TTGTAAT-----AATCACAAGAAAAATTTA
 Glse **CGA**ACCCAAAAA--AGAGGGTA--ATA--CAA-CTAAGTAAT---ACTAGAAAAACAG
 Naar **CGA**ACCCAACA-C-CAGAGGGAA--ATACGA-ATTAATAAATAATG-CTAGAAAAACAG
 Baoc **CGA**ACCCAGAAA--AAGAGGGTA--ATATGA-GCCAAATAAATGCTAGAAAAA---CACA
 Opso **CGA**ACCCAATAT--AAGAGGGTA--ATACA--AACCA-GAAAAACTGCTAGAAAAACAG
 Alte **CGA**ACCCAACCC--AAGAGAGCA--CTGTGG--ATTTA-AACACA-ACCTAGAAAACCCCA
 Plap **CGA**ACCCAACCC--AAGAGAGCA--CTGCGGATTTAAA-TA---TAGCCTAGAAAAGTCCCG

Plal **CGA**ACCCAACCCT - -AGAGGGGAA - -TTTGGACTGAATT - -ACAA - - - -CCAAGAAAACCTC
 Sami **CGA**ACCCAATGC - -AAGAGGGAA - -CTTTGG - - -ACT - TTAGCGCAACCAAGAAGCGGCCA
 Rere **CGA**ACCCAAGTGT - TAGAGGGAA - -ATTCA - -AGCTTAA - CTA - GAAACGAGAAGAGCCTG
 Gama **CGA**ACCCAATTG - -AAGAGGGAA - -AAACGGACTAAGC - - -TGACCA - CCGGAAGGTCCCG
 Onmy **CGA**ACCCAACCA - -AGAGGGAA - -CTGTAGGCC - AGA - -ACAAACACCAAGAAAAACCTA
 Sasa **CGA**ACCCAAGCCA - -AGAGGGAA - -CTG - -TAGCCCAGAAC - AAATACCGAGAAAAACCTA
 Cola **CGA**ACCTAAACC - -AAGAGGGAA - -ATGCAG - GCCAGAAGAGAAAC - -CGAGAAAAGCCTA
 Dita **CGA**ACCCACCCC - -TAGAGAGAA - -CTTCGG - ACCAA - ATCAGTTAACCAGGAAAA - ACCC
 Gogr **CGA**ACCCAAAC - C - TAGAGGGAA - -TCATAA - ACTATA - -C - - -ACAACCAAGAAAAATCCT
 Chsl **CGA**ACTCAAAC - -CAGAGAGCAGTCTGACCAGGGTTT - - -CACACAAGAAGA - - - -CCCC
 Atja **CGA**CCCCAAACA - -AAGAGGGAA - -ATGAAT - AAAAT - AAATGTAA - ACAAGAAATACACT
 lido **CGA**CCCCAAAACAACAGAGGGAA - -ATGAAC - AAGACTAAATATA - AACAAGAAAAACACC
 Auja **TGT**ATCTA - -CA - -AAGAAGCAA - -CTGTGG - -CCTAAACCTATA - AACAAGAAAAACCCCA
 Chag **CGA**CCCCAACCCC - -AGAGGGAA - -TTGAGCTTAGCCACAGTTTAA - ACTAGAAGAACT
 Hami **TGG**ACCCAGA - - - -AGAGGGTA - -CTATGAA - ATAAA - - -AAATAAAGTAGATAAAACCA
 Saun **TGG**TCCCAAAAAGA - -GGGCACTG - TGGAAAAAACTAATA - AACTAGATAA - - - - -AACCA
 Nema **CGA**CCCCAACCC - -AAGAGGGCA - -GTGTAAGACCAC - - -ACAAATACCTAGAAAAACCCAA
 Disp **CGG**TCCCCATC - C - GAGGGCCA - - - -TGTAT - TACTACA - CGAAT - ACCTAGAAACCTCAA
 Myaf **CGA**CGCCCCAAA - -GAGGCTACT - -GTTA - A - ACCACACAAAAACCAAGAAAAAT - CTAACA
 Lagu **CGA**CCCCACCC - C - CAGAGGGCA - -CTGAAC - CC - CAA - -CCAAACAACCAGAAGATCGTT
 Trtr **CGA**CCTCAAC - AT - CTGAGATGA - -ATGGAATGAAT - ATAAAGTA - - -CTAGAAAAGCATC
 Zucr **CGA**CCTCAAACC - GCAGAGGTG - -ATTGGG - AA - GTAA - -CTTGATTTCTAGAAAAGCCCC
 Pxja **CGG**CCCCAAA - TA - AAGAGGGAA - -ATGTATAATAA - ATAAACTA - - -CTAGAAAAATATA
 Pxlo **CGG**CCCCAAATA - -AAGAGGGAA - -ATGTA - - -TAATA - AATAAACCACTAGAAAAATATA
 Pctr **CGG**CCTCAAACA - -AAGAGAGCC - -CTGCAC - AAAA - -CAC - AGAATACAAGAAAAACGTG
 Apsa **CGA**CCTCACAAC - -CAGAGAGTA - -CTACAA - AAT - - - - -ACTAAACAAGAAAAATTTG
 Cabe **CGA**CGCCAAT - AC - AAGAGGCAA - -CTGGGCCACGA - ATTAACAC - -TTAAAAGACCACC
 Bzze **CGA**CCCCAAC - CC - AAGAGGGCA - -TTGAGTAATAA - ATTAACAA - -CTAGAAGAACT
 Siim **CAA**CCCCCAC - CA - AAGAGGGCA - -CTGGGTAACAA - ACCAAACAA - -CAAGAGAACTACC
 Ctru **CGG**CCCCAACCC - -CAGAGGGTA - -ATGAAT - -GAAAATAGGAC - -AACAAGAAAAACCAT
 Dpbr **CGG**CCCCAACCC - -CAGAGGGTA - -TTGAAT - AA - GA - -ATAATACAACAAGAAAAACCAT
 Caki **CGA**CCCCAAC - C - TAGAGGG - A - -CT - - - - -TAAGT - TAAAA - AACAAGAAAAACCACT
 Phja **CGA**CCCCAAC - C - AAGAGGGCC - -ATAAC - T - - - - -ATCTA - AACAAGAAAAACCAT
 Brsp **CAG**CTCAAT - - - - - -AGAG - -GAACCTAAGGCAATCA - ACTAGAAAA - - - - -CCCCT
 Gamo **CGA**CCCCAACCC - -CAGAGGGTA - -ATAGGT - CAAAAAAC - - - - -AAGAAAAACACC
 Lolo **CGA**CCCCAACCC - -CAGAGGGAA - -ATAAGAAACA - - - -TTTAA - - - -CAAGAAAAACACT
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 Prmy **CGG**CCCCAA - CA - - - -GAGGGTA - -ATGAAT - ACTACAT - AAACA - -ACTAGAAAAACAAA
 Loli **CGG**TCCCAACCCA - -AAGAGGGCACTGAATAAAAAACAGAAAGACCAGAAAAA - - - -TATT
 Loam **CGG**CCCCAAAAG - -AAGAGGGAA - -CTGAGCAAAAAAT - AA - - -AAAACCTAGAAAAACACC
 Chab **CGG**TCCCAAA - CA - AAGAGGGTA - -GTGAG - -AAAGACA - CCAA - AAACCTGAAAAACCCC
 Chto **CGG**CCCCAAC - A - AAGAGGGTA - -GTGAGA - AAGACA - -CCA - AAAACCTGAAAAACCCC
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 Hlst **CGG**TCCCAA - GAA - TAGAGGGCA - -ATTA - AATAATTAATAAAT - -ACTAGAAAAATTTT
 Clpe **CGG**CCCCAACCAA - - -AGAGGGCA - -CTGAGA - AGGG - -AATAAAGGACAAGAAAAACCT
 Mlmr **CGG**CCCCAACCC - A - AAGAGGGCA - -ATGTCC - AA - GGAA - CCAAATAACAGGAAACCCCC
 Crcr **CGG**GCCCCAACCA - -AGAGGGCA - -TTG - - -AATAGAA - GACCTCACACTAGAAAACTATC
 Muce **CGG**GCCCCAACCC - -AAGAGGGCA - -TTGAATAGAAGAC - - -CTCACACTAGAAAAAC - TATC
 Bege **CGG**CCCCAATAAA - A - GAGGGAA - -TTAGGC - TATAAAACAAA - G - AACTAGAAAAACACC
 Mela **CGG**TCCCAT - AC - -TGAGGGTA - -ATA - - -GGCCAAAAATA - GAGA - ACTAGAAAGACCACC
 Hats **CGG**CCCCAAA - AA - AAGAGGGAA - -CCGACCATAA - AC - AAAAAA - -CTAGAAAAACACC
 Orla **CGG**CCCCAATT - A - AAGAGGGGA - -GGCCGG - AT - GGAA - AAGAGAA - CAAGAAAAATTCG

Cosa **CGA**CTCCAAATA--AAGAGGATA--TTA-GA-T-TAT-ATATAAAGAAGCTAGAAAACTCTC
 Exsp **CGG**CCCCAAGCA--AAGAGGGCA--TTGGAA-AATTA-AATAGACA-CTAGAAAACTTC
 Depa **CGG**CCCCAAATA--AAGAGGGTA--TTACAAAAAAT--ATAA--AACAGAAAACTTG
 Rima **CGG**CCCTAGCT-G-AAGGGCTTA--TACTAC-ACAAAATCACTAG-----AAACCCCTA
 Fuol **CGG**CCCCAACC-A-AAGAGGGAA--TTAGAG-CTAAAAC-AGAA--AACAGGAAATATCTC
 Gmaf **CGG**CCCCAAT-A-A-GAGGTTA--ATAAGA-CC-CAA--AAAGATAACAAGAAACCCCT
 Xeei **CGG**CCCTAATAA--AAGAAGGAA--ATAGAG-TAAAA-ATAAATA--ACAAGAAAACTC
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 Scmi **CGG**ACCCAATCAA-A-GAGGGTA--TGAAAG-AGACGAGTAGCCC-CCAA-GAAAACCAT
 Rolo **CGG**CCCCAACC-A-AAGAGGGAA--TTGAAT-AATAA-A-CTAGA-GTACTAGAAAGACAC
 Cere **CGG**CCCCAATTAG-TAGAGGGTA--GTGAACACTAA-ACAAAACAC--T-AGAAGACGTT
 Daga **CGG**CCCCAACA-G-CAGAGGGAA--ATGAAC-A--ACA-ATTATAAACTGGAAGTGC GTT
 Anco **CGG**CCCCAAACAA--AGAGGGAA--ATG--ACA-ATAAACATAA-CTAGAAAAACT
 Dmve **CGG**CCCCAACCAA--AGAGGGAATTGAAAGATAAAAGTAATAAACCCAGAAAAAT---CACT
 Dmar **CGG**CCCCAA-TCA-CAGAGGGGA--GTGAAC-AGTAAACAACAAA--CTAGAAGACCACT
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 Moja **CGG**CCCCAATCA--AAGAGGGAA--ATGAAA-TTCAA--AACTATAAACAGAAAGACCAT
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 Bede **CGG**CCCCAATCA--AAGAGGGTA--TTGAATAATAAC-CACAAA--ACTAGAAAAACATT
 Bosp **CGG**CCCCAATAG--AAGAGGGTA--TTGAAT-A-ATA-AACCATAAACTAGAAAAACATT
 Mysp **CGG**ACCCAAAA--AAGAGGGAA--TTGAGC-AACAA-ACCT-GTAAACAAGAAAAACT
 Osja **CGG**ACCCAACCA--AAGAGGGAA--CTGA--ACAATAA-ACCAGCCAACCAGAAAAACT
 Sgro **CGG**ACCCAAA-AA-AAGAGGGAA--CTGAGC-AAACAAA-GCAATAAACCCAGAAAGAACT
 Pzpa **CGG**CCCCAAGAAA--AGAGGGAAGTAAAACTAGCTAAATTAACCAGAAGA---CCTTT
 Zeja **CGA**CCCCAAACA--AAGAGGGAA--GTGTAG--ACTAACCCAGCCAACTAGAAGCCCTA
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 Hydy **CGA**ACCCAAC-AAA-A-GAGGGAA--TTGGAT-AACAA-ACCAAACAAGAAAACTATC
 Gsac **CGA**ACCCAACCA--AAGAGGGAC--CTGGGT--AATAAACTAAAT-AACTAGAAAACTACC
 Pevo **CGG**ACTCAAAC-A-AAGAGAGCC--CTGGGC-TC-TATC-ACAAAAACAAGAAAAACC
 Hiku **TGG**TCCCACTAC--CAGAGGGTA--ATGTTG-TAAAA--GCAAAGGAACAAGAAAAAGCAA
 Inpa **CGG**CCCCAAACCC--AGAGGGCA--TTAAACC-CCAA--ACAGACAAGTAAAAACCAAC
 Auch **CGG**CCCCAAAAC--CAGAGGAGA--CTGATCATTAAT-CTCAACCCACAAGAAAAACCCCT
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 Syma **TGG**CCCCAACAA--AGAGAGCC--CTGA-TAACCTAAAC-AGATAACTAGAAAACTAAT
 Mafr **CGG**CCCCAATTA--CAGAGGGTA--ATGAAC-ACTA--AACCACTACACCAGAAAAACCACC
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 Stam **CGG**CCCCAATAA--AGAGGGTAATGAATTATGGTATAG--ACAAGTAAAAACCTCCAA
 Hogi **CGG**CCCCAGACAA-A-GAGGGAA--CTGAGC-AACAACCTAAAGA-ACTA-GAAAAACT
 Erzo **CGA**CCCCAAGCA--AAGAGGGCC--CTGAAT-AATAGACCAAACAA--CTAGAAAAACATT
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Syja CCG CCCCCAAAACAA - A - GAGGGAA - - CTGAAA - AACTAAACCAGAG - ACCAGAAAAACATT
 Epme CCG ACCCAAATAA - TAGAGGGAA - - CTGAACC - ACAGACGAAACA - - ACTAGAAAACCACC
 Grse CCG CCCCCAACCTATCAGAGGGAA - - TTGA - TGGACATAAACCAAACAACCTAGAAAAACACC
 Clja CCG CCCCCAAGC - C - AAGAGGGTA - - CTGAAC - C - AAGTACATAGATAACTGGAAAAACCGTT
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 Bsja CCG CCCCCAAACA - - AAGAGGGAA - - TTGGAC - ATACA - AACCAAACAACCAGAAAAACGTC
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 Cohi CGT CCCCCAAAAA - - AGAGGGAA - - TTG - - - AGTACTTTAGAAAACCTACAAGAAGACTACT
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 Geoy CGA ACCCAATCA - - AAGAGAAGA - - ATGA - - AAGTCCC - GAAAAGAAGCAAGAAAAATTATT
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 Pama CCG CCCCCAAG - CA - AAGAGGGAA - - ATGGATTTCAA - ATAAATTA - - CTAGAAAAACATC
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 Pesc CGA CCCCCAAACCA - A - GAGGGTA - - CTGAAC - AA - TACT - CAAAATTACAAGAAACCCCCC
 Baar CCG CCCCCAAACAA - - AGAGGGCA - - CTG - - AATG - ACATACCACAATACCAGAAAAACCATT
 Moar CCG CCCCCAAACAAAGA - - GGGTAATGAACAACAACCAAAC - - - - AACCA - GAAAATCATC
 Toja CCG CCCCCAAA - CA - AAGAGGGTA - - CTGAA - - TAACAAT - ATAACCCACTAGAAAAATCATT
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 Chse CCG CCCCCAAACAA - A - GAGGGAA - - CTGAAC - AGCAAATAAACA - ACTA - GAAAACCGTC
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 Hame CCG ACCC - AACAA - - AAGAGGGCA - - CTGGAC - CGTA - CACATCAAACCAGAAAAACTC
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 Stci AGG CCCCCAA-CTA-CAGAGGGAA--ATGAA--AATGTTTTACAAA-TACAAGAAAACAAT
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 Rala CCGGCCCCCTACAC--AAGAGGGTA--TTGAAC-TACAA--ATTAACAAGTAAAAACCCC

	29'	B'	30	30'	27'	26'	31	
Scca	TATCTTACTAT--	TCGT	TAAC	CCA	ACACA	GGAGTGT	CT-----TAAGGAAAG-AT	TAA
Muma	TTCTTCT---AT-	TCGT	TAAT	CCC	ACACA	GGATGT	CAC-----C-AGGAAAG-AT	TAA
Erca	TAT---A-TTTAC	TCGT	TAAC	CT	ACACA	AGGTGC	ACA-----AAGGAAAG-AC	TAA
Pose	TATTAACCTCA-	TCGT	TAAT	CT	ACACA	AGGTGC	-CCA-----AAGGAAAG-AC	TAA
Actr	GTA AACACA-A-	CCGT	TAAC	CCA	ACACA	GGAGTGC	ACCG-C-C-AAGGAAAG-AC	TAA
Scal	GTA AACACAA-	CCGT	TAAC	CCA	ACACA	GGAGTGC	GCCA-C--CAAGGAAAG-AC	TAA
Posp	TAA AACACAA--	CCGT	TAAT	CCC	ACACA	GGAGTGC	TCAC----CAAGGAAAG-AC	TAA
Atsp	TATTGAATATAAA	TCGT	TAAT	CT	ACACA	AGATGC	CC-----ATGGAAAG-AC	TAA
Leoc	TTAAATATT--AA	TCGT	TAAC	CT	ACACA	AGATGC	AC-----ATGGAAAG-AC	TAA
Amca	TAATAA--CTA-	TCGT	TACC	CC	ACACA	GGAGTGC	ACCC-----AAGGAAAG-AC	TAA
Osbi	TATTAC-----AA	TCAT	TAAT	CC	ACACC	GGGTGC	TATTCA---AAGGAAAG-AC	TAA
Pabu	AGCAAAATT--A-	TCGT	CAAC	CCA	ACACA	GGAGCCG	AC----TACAAGGAATG-AC	TAA
Hial	TGACAA---ATA-	TCGT	TAAC	CCA	ACACA	GGAGTGC	AAA-----AAGGAAAG-AC	TCA
Elha	CAACACAATA--	CCGT	TAGC	CC	ACACA	GGAGTGC	CC-C----AAGGAAAG-AC	TAA
Mlcy	GCTACC--CACTA	CCGT	TAAC	CCA	ACACA	GGAGTGC	AGCC-TCAGAAGGAAAG-AC	TAA
Algl	CAGTGAGATC-A-	TCGT	TAGC	CCG	ACACA	GGAGTGC	CTAT-G---ATGGAAAG-AT	TGA
Ptgi	CGA---AAAATGA	TCGT	TAAC	CCA	ACACA	GGGTGC	CA-----CAAGGAAAG-AC	TAA
Alaf	ATGAAGCAAA--	TCGT	TAAC	CCA	ACACA	GGATGC	ACAA-----AGGAAAG-AC	ACA
Nock	TGAAGAAA---A-	TCGT	TGAC	CCA	ACACA	GGGTGC	ACA-----AAGGAAAG-AC	ATA
Anja	TAATACCACA-AA	CCGT	TAAC	CCA	ACACA	GGAGTGC	CTA-----A-AGGAAAG-AC	TA-
Gyki	GCCAAA---ACAA	CCGT	CACC	CCA	ACACA	GGAGTGC	GCC-----CAGGAAAG-AC	TAA
Syka	TATTACCTACAA-	TCGT	TAGC	CCC	ACACA	GGAGTGC	CCATA---AAAGGAAAG-AC	TAA
Opma	TATGAGAACAA-	CCGT	TAAC	CCA	ACACA	GGGTGC	AAT---A--AAGGAAAG-AC	TAA
Comy	TTAAAAC-A---A	CCGT	TAAC	CCA	ACACA	GGAGTGC	CACT----TAAGGAAAG-AC	TAA
Sasp	TAC--TATCACAT	TCGT	TAAC	CCA	ACACA	GGAGTGC	CTT-----AAAGGAAAG-AC	TAA
Eupe	AAACCACAAA--	CTGT	TAAC	CCG	ACACA	GGAGTGC	ATCT-----AAGGAAAG-AC	AAA
Enja	TTC--CCCAGA-A	TCGT	TACC	CCG	ACACA	GGAGTGC	CAGA---ACAAGGAAAG-AC	TTA
Same	TAG-TGAAA--CA	TCGT	TACC	CCA	ACACA	GGAGTGC	TCTA--GCCAAGGAAAG-AC	TTA
Chch	CATTCAATAAAA-	TCGT	TACC	CCC	ACACA	GGGTGC	TAAC---TAAGGAAAG-AC	AAA
Grgr	GC-CACCTGAA-	TCGT	TGAC	CC	ACACA	GGGTGC	CCC-----TGGGAAAG-AC	TAA
Caau	CACAACCTAAGTA	TCGT	TACC	CCC	ACACT	GGAGTGC	AACA-----AAGGAAAG-AC	TAA
Cyca	CAA--CTAAACTA	TCGT	TACC	CCC	ACACT	GGAGTGC	CCT----AAAGGAAAG-AC	TAA
Dare	CAACA----GACA	TCGT	TACC	CCC	ACACT	GGAGTGC	ATAT----AAGGAAAG-AC	TAA
Cost	TA--AAATAATA	TCGT	TAAT	CCC	ACACT	GGATGC	CCC-----AAGGAAAG-AC	TAA
Leec	CAACACCTG--AA	TCGT	AAAA	CCC	ACACT	GGAGTGC	TAT----CCAGGAAAG-AC	TAA
CrIa	AT-GTTATAACAA	TCGT	TAAC	CCC	ACACT	GGAGTGC	CC----C-CAGGAAAG-AC	TAA
Clmc	CTA--ACC---CA	TCGT	TAAC	CCC	ACACC	GGAGGC	CCC-C-AACAAGGAAAG-AC	TAA
Phin	CAC-ACCC---CT	TCGT	TAAC	CCC	ACACT	GGCGGC	CACC----ACAGGAAAG-AC	TA-
Icpu	CA-TACACCTGCA	TCGT	TAAC	CCC	ACACC	GGAGGC	AGA----ATAGGAAAG-AC	TAA
Psto	CATAAAA-TAA-	TCGT	TAAA	CCC	ACACC	GGAGGC	CTA----CATAGGAAAG-AC	TAA
Cora	CACGACTTAA--	TCGT	TAAC	CCC	ACACC	GGAGGC	TAC-----AAGGAAAG-AC	TAA
Eisp	CGC--ACACACAA	TCGT	TAAT	CC	ACACT	GGAGGA	TAC-----AGGAAAG-AC	TAA
Apal	CACCAC-CAA--	TCGT	TAAC	CT	ACACC	AGCGGC	AACT----AAGGAAAG-AC	TAA
EsLu	CA-TAAAC--CAA	TCGT	TAAC	TCC	ACACT	GATGTC	ACC--C---AAGGAAAG-AC	CTA
Dape	CA-TAAAT--AA	TCGT	TAAC	TCC	ACACT	GATGTC	CT-----CCGGGAAAG-AC	CTA
Glse	TACATT---TAAA	TCGT	TAAC	CCC	ACACA	GGAGTGC	CCCC----AAGGAAAG-AC	CTT
Naar	TATACT---ACTA	TCGT	TAAC	CCC	ACACA	GGAGTGT	TCCC-----CAGGAAAG-AC	CTA
Baoc	TATTCCGCAA--	TCGT	TAAC	CCC	ACACA	GGAGTGT	TCTC----TGGGAAAG-AC	CTT
Opso	TAT--AA-AATAA	TCGT	TATT	CC	ACACA	GGGTGC	CC-----TAAGGAAAG-AC	TAA
Alte	CACGCACACA--	TCGT	TACC	CC	ACACA	GGAGTGC	CTAT---AAGAGGAAAG-AC	CCA
Plap	CAC--ACGCAC-A	TCGT	TAGC	CCC	ACACA	GGAGTGC	CCCC---AAGAGGAAAG-AC	CCA

Plal CAA--AGTGACCA TCGT T AAT CCC-ACACA GG AGTGC CTA-----G AGG AAA G- AC TAA
 Sami ATGAAAC-G---A TCGT T AGC CCC-ACACA GG AGTGC ACCA-----AGG AAA G- AC TAA
 Rere ATC-CA--CAACA TCGT T GAC CCT-ACACA GG AGTGC TTG-----AGG AAA G- AC TAA
 Gama TTG---TAATGAA TCGT T GAC CCC-ACACT GG AGTGC A-T-----AA GGG AAA G- GC CTA
 Onmy CA-CCAACA--AA TCGT T ACC CCC-ACACA GG AGTGC CC-----CAA GGG AAA G- AC CCA
 Sasa CATCAA---CAAA TCGT T AAC CCC-ACACA GG AGTGC TCAC-----A GGG AAA G- AC CTA
 Cola CAAAATA-A---TCGT T AAA CCC-ACACA GG AGTGC CCAC-----A AGG AAA G- AC CCA
 Dita GAATGTAACA--TCGT T AAC CCT-ACACA GG AGTGC CCCA-----A GGG AAA G- AC CTA
 Gogr AA-TAATCCTATA TCGT T AAC CCC-ACACA GG AGTGC ATA-----TA AGG AAA G- AC CTA
 Chsl AGA--TGCTTCA TCGT T AAC CCA-ACACA GG AGTGC CC-----CG AGG AAA G- AC TAA
 Atja CAATATATTTT CGA TCGT T AAA CCT-ACACA GG AGTGC CACC-----C GGG AAA G- AC TAA
 lido CAACAATTTT-AA TCGT T AAC CCC-ACACA GG AGTGC CCCC-----AGG AAA G- AC TAA
 Auja CACCTATAAA---CCAT T AAC CCC-ACACA GG AGTGC TTAC-----C AGG AAA G- AC CAA
 Chag CAATAAAC--AA TCGT T ATC CCC-ACACA GG AGTGC CC----CACC CGG AAA A- AC GAA
 Hami TAATCAACT--A-CCAT T AGA CCC-ACACA GG AGTGC AA----CTA AGG AAA G- AC TAA
 Saun CAAGATATA---ACAT T AAA CCC-ACACA GG TGTGC CAAC-----A GGG AAA G- AC TA-
 Nema CAC--GAACCGAA TCGT T AGC CCT-ACACA GG TGTGC AGC-----CC AGG AAA G- AC TAA
 Disp CAT-AAC-TAA--CCG T AAC CCA-ACACA GG TGTGC ACG-----CC CGG AAA G- AC TTA
 Myaf TA--TAATAG--TCGT T AAC CCA-ACACA GG TGTGC GCC-----CGG AAA G- AC TAA
 Lagu CA-AATAATA---TCGT T AAC CT T-ACACC AG AGTGC AAC--C---A AGG AAA G- AC TAA
 Trtr CACCCTCCCC-CA TCGT T AAC CT A-ACACA AG ATGC AC-----C-A GGG AAA G- AC TAA
 Zucr CACATT---AA-A CCG T GAC CT A-ACACA AG ATGC ACC-----A AGG AAA G- AC TAA
 Pxja CACCTTAAT--AA TCGT T AAC CCT-ACACA GG AGTGC AT-----ACA AGG AAA G- AC TAA
 Pxlo CAC--CTTAATAA TCGT T AAC CCC-ACACA GG AGTGC ATA-----CA AGG AAA G- AC TAA
 Pctr CACCCCCAAA---TCGT T ACC CCC-ACACA GG AGTGC AACA----AG TGG AAA G- AC TAA
 Apsa TACCTAAC--A-CCG T AAC CCT-ACACC GG AGTGT -AAT-----A AGG AAA G- AC TAA
 Cabe CAGTACACA---CAG T GAC CCC-ACACC GG AGTGC AC-----CA AGG AAA G- AC TTA
 Bzze CAACAACCG---ACG T AAC CCC-ACACT GG TGTGC CT-----GCA AGG AAA G- AC TGA
 Siim CAACAACAA---ATG T AAT CCA-ACACC GG CGTGC TA-----CCC AGG AAA G- AC TAA
 Ctru CAACACAAAG---CCG T TAGC CCC-ACACT GG AGTGC CCAC-----A AGG AAA G- AC TAA
 Dpbr CACATCTATAG--CCG T AAC CCC-ACACT GG TGTGC CCACA-----AGG AAA G- AC TAA
 Caki TAACTAA-T-A--TCGT T GAC CCT-ACACA GG ATGC ACC-----A AGG AAA G- AC TAA
 Phja TA-G-AATTTA--TCGT T AAC CCC-ACACA GG TGTGC CCC-----A AGG AAA G- AC TAA
 Brsp TAAACCTA----A CTG T AAC CCT-ACACA GG AGTGC ACC-----A-AGG AAA G- AC TTT
 Gamo TATTTTAT-A--TCGT T AAC CCC-ACACA GG TGTGC CTAA-----AGG AAA G- AC TAA
 Lolo TA---TT-TTTTA TCGT T AAC CCCACACAGG TGTGC CCA-----A AGG AAA G- AC TAA
 Batr CAACACAA---ACG T AAC CCG-ACACA GG TGTGC TGCA-----A AGG AAA G- AC AA-
 Prmy C--TCATTAA-A-CCG T AGAC CCC-ACACA GG CATGT GCC-----T AGG AAA G- AT TAA
 Loli CAATGCAT----ACG T AAC CT C-ACACT AG AGTGC CCCC-----A-AGG AAA G- AC TA-
 Loam CAG---TAACTAA CCG T AAC CT C-ACACT AG AGTGC TGCC-----A AGG AAA G- AC TAA
 Chab CAAAA----CCCA CCG T AAC CCC-ACACT GG CGTGC TTCA-----A GGG AAA G- AC TAA
 Chto CA-AACCCA---CCG T AAC CCC-ACACT GG CGTGC TTC---CAA GGG AAA G- AC TAA
 Majo CAGCTCACCCA--CCG T AAC CCC-ACACT GG TGTGC CTA---C-A AGG AAA G- AC TAA
 Hlst AAACATTTTA-AA CCG T ACC CCT-ACACT GG AGTGT TACA-----A AGG AAA G- AC TAA
 Clpe CAGCAACCAA---CCG T GAC CCC-ACACT GG TGTGC AT-C---AA GGG AAA G- AC AGA
 Mlmr CAATAA---GTTA CCG T ACC CCC-ACACT GG AGTGC CCCC-----A AGG AAA G- GC TGA
 Cr cr CAAAAC---CCCA CCG T AAC CCC-ACACT GG CGTGC CCTC-----A GGG AAA G- GT TAA
 Muce CAA---AACCCA CCG T AAT CCG-ACACT GG CGTGC CCT-----CA GGG AAA G- GT TAA
 Bege CATAAA--TT-A-CCG T AAC CCC-ACACT GG CCGCC CCA-----TGG AAA G- AC TAA
 Mela CAAATA---TCC-CCG T AAC CCT-ACACT GG AGCCG CTCC-----G TGG AAA G- AC TAA
 Hats CAAAAGATA---CCG T AAC CCC-ACACT GG TGTGT CC-----CCA CCG AAA G- AC TAA
 Or la -ACATA---ATTA CCG T ACT CCT-ACACC GG TGTGC TCTT-----T AGG AAA G- AC AAA

Cosa TAATAACTA--A CCGTUAACCC-ACACTGGTGTGCCCCC-----CGGAAAG-AC TAA
 Exsp CAACAA--AT--A CCGTUGACCC-ACACTGGAATGCTAAC-----CTGGAAAG-AC CAA
 Depa TAC--AA--ATAA CCGTUAACCC-ACACTGGTGTGCCCTT-----C CCGAAAG-AC TAA
 Rima TA-AACACTAA-A CCGTUAACCC-ACACA GGC ACTC CCC-----TG AAGAAAG-AC TAA
 Fuol TATTTAT-TAA-- CCGTUAACCC-ACACTGGTGTACAAA----C-T TGGAAAG-AC TAA
 Gmaf TA--A-ACAAATA CCGTUAACCC-ACACA GGA GTGC CCC-----T- GGGAAAG-AC TAA
 Xeei TAATAAAAT--AA CCGTUAACCC-ACACTGGCGTGC AAGC-----C CCGAAAG-AC TAA
 Pros CA-ACCATCAA-- CCGTUAAGCCC-ACACTGGA GTGC CCA-----CA AGGAAAG-AC TAA
 Scmi TGATTACC---CA CCGTUAACCC-ACACTGGCGTGC CC-----ACA AGGAAAG-AC TAA
 Rolo TCAATTATAAA-- CCGTUAAGCCC-ACACC GGA GTGC ACA-----CA AGGAAAG-AC TAA
 Cere CAACACTTT--GG CCGTUAACCC-ACACC GGA GTGC TT-----ACA AGGAAAG-AC TAA
 Daga CATATT---ATG- CCGTUGATCC-ACACTGGGTGC TTAA-----A AGGAAAG-AC TAA
 Anco CAACAAAA----A CCGTUAACCC-ACACTGGTGTGC AAC-----A AGGAAAG-AC TAA
 Dmve CAACAACC----A CCGTUAACCCA-ACACTGGCGTGC ACCC-----C AGG GAAAG-AC TA-
 Dmar CAAC-AGC---CA CCGTUAAGCCC-ACACTGGCGTGC AATT-----A AGGAAAG-AC TAA
 Anka CAATTAAC---AA TCGTUAACCC-ACACTGGTGTGC T-----AAA AGGAAAG-AC TAA
 Moja CAACAAC---AA CCGTUAACCC-ACACTGGTGTGC AAC-----A AGGAAAG-AC TAA
 Hoja CAATAA-CAG--- CCGTUAACCC-ACACTGGTGTGC AACA-----A AGGAAAG-AC TAA
 Bede CA--A-ACTACTGG CCGTUAACCC-ACACTGGA GTGC CCAC-----A AGGAAAG-AC TAA
 Bosp CAAATACTA---G CCGTUGACCC-ACACTGGA GTGC CCAC-----A AGGAAAG-AC TAA
 Mysp CAAAACAACACCA CCGTUAACCC-ACACTGGA GTGC CTGC-----A AGG GAAAG-AC TAA
 Osja CAA--CCAAACCA CCGTUAAGCCC-ACACTGGA GTGC -CT----ACA AGGAAAG-AC TAA
 Sgro CAACAAA-TTTAA CCGTUAACCC-ACACTGGA GTGC AAAC-----A AGGAAAG-AC TAA
 Pzpa TACTTAAC----A CCGTUAACCC-ACACA GGA GTGT TATC-----A AGGAAAG-AC CA-
 Zeja CACTTATTTA--- TCGTUAAGCCC-ACACA GGA GTGT TTTC-----A AGGAAAG-AC AAA
 Znne CACTAA-ACA-A- TCGTUAACCC-ACACA GGA GTGT AATT-----A AGGAAAG-AC CAA
 Zefa CACTAA-AA---A TCGTUAACCCA-ACACA GGA GTAT AAAT-----A AGGAAAG-AC AAA
 Acni CACCTATA---A- TCGTUAACCCA-ACACA GGA GTGT ATT-----TA AGGAAAG-AC AAA
 Ncrh CACCTA--TAA-- TCGTUAACCCA-ACACA GGA GTGT ATT--T---A AGGAAAG-AC AAA
 Agca CAACAATCAA--- CCGTUAACCC-ACACTGGTGTGC CCAT-----A AGGAAAG-AC TAA
 Hydy CAAAAACT---AG CCGTUAACCC-ACACA GGA GTGC CCC-----C GGGAAAG-AC TAA
 Gsac CAACATTTGA--- CCGTUAACCC-ACACA GGA GTGC CC-C-----C GGGAAAG-AC TAA
 Pevo CA--CCAT-CACA CCGTUAACCT-ACACA AGC GTGC TCC--C---A AGGAAAG-AC TAA
 Hiku CAAT--AATAAA- CCAATCAACCC-ACACC GGA TTGC TAA-----CC AGGATAA-AC TAA
 Inpa TAACCAAC--A- CCGTUGAACCA-ACACC GGA GTGC CC-----CAT AGGAAAG-AC CTA
 Auch CAGT-AAACCCTC CCGTUAACCC-ACACA GGA GTGC ACCC-----C GGGAAAG-AC TTA
 Fico CAAAACTT---A CCGTUAACCC-ACACTGGTGTGC CCAC-----T AGGAAAG-AC TAA
 Macs CA-GACAAA--AA CCGTUAAT TCC-ACACTGAT GTGC CC-----CCA AGGAAAG-AC TAA
 Moal CAACAATCAT--- CCAATUAATCT-ACACC AGC GTGT GATA-----A AGGAAAG-AC TAA
 Syma CAACAT---ACA- CCAATUAATCT-ACACTTA- GTGT AATA-----A AGGAAAG-AC TAA
 Maf r CACCAACCA---A CCGTUAACCT-ACACC AGA GTGC CCCC-----A AGGAAAG-GC TGA
 Dcpe CA--ACAATA-CA CCGTUAATCCC-ACACTGGTGTGC CAA---C-A AGGAAAG-AT TGA
 Dct i AACATTAACA--- CCGTUAACCC-ACACTGGTGTGC CAA-----CA AGGAAAG-AT TAA
 Hehi CAA--ACACAAA CCGTUAACCC-ACACA GGA GTGC ACT-----TT AGGAAAG-AC TAA
 Stam CAACACA-----A CCGTUAACCC-ACACA GGA GTGC CCCC-----C GGGAAAG-AC TA-
 Hogi CAAACATA---A- CCGTUAACCC-ACACA GGA ATGC ATT-----TA AGGAAAG-AC CAA
 Erzo CAAAAAAGA--- TCGTUAACCC-ACACA GGA GTGC CAAT-----A AGGAAAG-AC TAA
 Hxot CAAAAACCAA--- CCGTUAACCC-ACACA GGA GTGC CCCC-----A GGGAAAG-AC TAA
 Core CA--ACAACA-A CCGTUAACCC-ACACA GGA GTGC CCA-----CA GGGAAAG-AC TGA
 Apve CAAGAACT---GA CCGTUAACCC-ACACA GGA GTGC CCCT---A- GGGAAAG-AC TA-
 Lat j CAA-CACAT--AA CCGTUAACCC-ACACTGGTGTGC TC---G--A AGGAAAG-AC TAA
 Laja CAATAAC-TTA-- CCGTUAACCC-ACACTGGTGTGC TCC-----A AGGAAAG-AC TAA

Syja CAACAATA---AA**CCG**T**AA**C**CT**-ACACT**AG****AGTGC**CAA-----CA**AGG**AAA**G**-**AC**TAA
 Epme CAAACAATT---AA**CCG**T**AA**C**CC**-ACACA**GG****GTGC**TT----TT-**AGG**AAA**G**-**AC**TAA
 Grse CAACAA---CCAA**CCG**T**AA**C**CC**-ACACA**GG****GTGT**CCCC-----**AGG**AAA**G**-**AC**TAA
 Clja CA-TTAATAAA---**CCG**T**AA**A**CC**-ACACT**GG****AGTGC**CCC-----AT**GGG**AAA**G**-**AC**TAA
 Ogcy TC-AACACAAA-A**CCG**T**AA**C**CC**A-ACACT**GG****AGTGT**GAA-----CA**AGG**AAA**G**-**AT**TAA
 Plna CAA-ACTCT--TA**CCG**T**AA**T**CC**-ACACT**GG****GTAC**TTTT----**AAGG**AAA**G**-**AC**TAA
 Lema CAAGCT--TTTAA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CCCT-----**TGGG**AAA**G**-**AC**TAA
 Etzo CA-ACAGCCTA-A**CCG**T**AA**T**CC**-ACACA**GG****GTGC**CCA-----CA**AGG**AAA**G**-**AC**TAA
 Apse CA-CCCC--TAA**CCG**T**AA**C**CT**-ACACC**AG****AGTGC**ACT----C-**AGG**AAA**G**-**AC**TAA
 Epde CAATAATT---AA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**TTTT----**AAGG**AAA**G**-**AC**TA-
 Slja CACCCCCCTAA-**CCG**T**TA**C**CC**-ACACT**GG****AGTGC**CTT-----TT**AGG**AAA**G**-**AC**TAA
 Bsja CAGTAACCA---A**CCG**T**AA**C**CC**A-ACACC**GG****GTGC**CCTTTTTCAA**AGG**AAA**G**-**AC**TAA
 Ecna TAA--AAAT--AA**GGG**T**AA**C**CC**-ACACT**GG****GAGC**---A--TACA**GGG**AAA**G**-**AC**TAA
 Cohi CAAAAT---TAAA**CCG**T**AA**C**CC**-ACAC-**GG****AGTGC**TCTTTT---**AAGG**AAA**G**-**AC**TAA
 Caar CTAAAT---TA**CCG**T**AA**T**CC**-ACACT**GG****GTGC**C--TA---CT**AGG**AAA**G**-**AC**TAA
 Came CAACCAAC----A**CCG**T**AA**C**CC**-ACACT**GG****GTGC**TTAC-----**CAGG**AAA**G**-**AC**TA-
 Mema CAAGACCC-T--**TCG**T**AA**C**CC**-ACACA**GG****GTGC**AC-----CCA**AGG**AAA**G**-**AC**TAA
 Lenu CAACACATCC---**CCG**T**CA**C**CC**-ACACA**GG****AGTGC**CATTA---**ATGG**AAA**G**-**AC**TAA
 Brja CAACAAGCAA---**CCG**T**AA**C**CC**-ACACC**GG****GTGC**CCCC-----**CAGG**AAA**G**-**AC**TAA
 Plma CAATAAACA---A**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CCCC-----**TGAGG**AAA**G**-**AC**TA-
 Emst CAATGA-GAA-A-**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CCAT-----**GGGG**AAA**G**-**AC**TAA
 Ptti CAATTACACA--A**CCG**T**AA**C**CC**-ACACT**GG****GTGC**ACCC-----**AAGG**AAA**G**-**AC**TAA
 Losu CAACCTCATT---**CCG**T**GA**C**CC**-ACACT**GG****GTGC**AA-C----TA**GGG**AAA**G**-**AC**AAA
 Geoy CAA--TGCAAC-A**TCG**T**AA**A**CC**-ACACT**GG****AGTGC**ACC---CCC**GGG**AAA**G**-**AC**TAA
 Dipi CAT--TAC-ACAA**CCG**T**AA**C**CT**-ACACT**GG****GTGC**CCC-----TA**AGG**AAA**G**-**AC**TAA
 Pama CAAGACAA---AA**GGG**T**AA**C**CC**-ACACT**GG****AGTGC**TC-----TTA**GGG**AAA**G**-**AC**TAA
 Leob CAATAACTA---A**CCG**T**GA**C**CC**-ACACT**GG****GTGC**TTTT-----**AAGG**AAA**G**-**AC**TAA
 Neba CAAAATT-A--**TCG**T**AA**C**CC**-ACACT**GG****GTGT**TTTT-----**TAGG**AAA**G**-**AC**TAA
 Pdpi CACAACATTAACC**CCG**T**AA**A**TCT**-ACACC**GA****GTGC**AAT---CCA**GGG**AAA**G**-**AC**TAA
 Nimi CAATAC---TCAA**CCG**T**GA**A**CC**-ACACT**GG****GTGC**CCCC-----**GAGG**AAA**G**-**AC**TAA
 Uptr CA--GCTCACCCA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CCA---C-**AGG**AAA**G**-**AC**TAA
 Pesc CAAACC---CACA**CCG**T**AA**C**CC**-ACACA**GG****GTGC**CTAA-----**AAGG**AAA**G**-**AC**TTA
 Baar CACCAATAC---**CCG**T**AG**T**CC**-ACACT**GG****AGTGC**CCCCT---**AAGG**AAA**G**-**AC**TAA
 Moar CAACAAACAA---**CCG**T**AA**A**CC**-ACACT**GG****AGTGC**TCTC-----**AGGG**AAA**G**-**AC**TAA
 Toja -CATTC--TAACA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**C-CC----TC**GGG**AAA**G**-**AC**TAA
 Chau CA-ATAACT--A-**CCG**T**AA**C**CC**-ACACT**GG****GTGA**-T----TTCA**AGG**AAA**G**-**AC**TAA
 Chse CAGAAATT---AA**CCG**T**AA**C**CC**-ACACC**GG****GTGC**CCCC----TA**GGG**AAA**G**-**AC**TAA
 Enar CAATAACT---AA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CCC-----TA**GGG**AAA**G**-**AC**TAA
 Hpty CACAAA---TCAA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CCCC-----**AAGG**AAA**G**-**AC**TAA
 Nana CACTAAA--TCAA**CCG**T**TA**A**CC**-ACACT**GG****GTGC**ATAC-----**TAGG**AAA**G**-**AC**TAA
 Mcst CAACAACACA-A-**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CCCT-----**AAGG**AAA**G**-**AC**TAA
 Rhox CAAATACAAC-TA**CCG**T**AA**C**CC**-ACACC**GG****GTGC**TTAC-----**AAGG**AAA**G**-**AC**TAA
 Opfa CATACAAC---GA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**AC-----CCA**AGG**AAA**G**-**AC**TAA
 Paar CAA---ATTCAA**GGG**T**AA**C**CC**-ACACT**GG****AGTGC**TTT-----TT**AGG**AAA**G**-**AC**TAA
 Gozo CCACCATCT--AG**CCG**T**AA**C**CC**-ACACA**GG****GTGC**CC-----TCC**GGG**AAA**G**-**AC**TAA
 Ackr CA-AACCCCG--**CCG**T**AA**C**CC**-ACACT**GG****AGTGC**AAA-----CA**AGG**AAA**G**-**AC**TAA
 Elev TAC--CGATT-AA**CCG**T**AA**A**CC**-ACACT**GG****GTGC**CAC-----CT**GGG**AAA**G**-**AC**TAA
 Trdu TA-GTTCC--TCA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**AAA---C-**CGG**AAA**G**-**AC**TAA
 Amoc CA-CACTTA--TA**CCG**T**AA**T**CC**-ACACT**GG****GTGC**CT-----ATA**AGG**AAA**G**-**AC**TAA
 Hame CAAAAACAA---A**CCG**T**AA**C**CC**-ACACT**GG****GTAT**CTAA-----**AGGG**GAA**G**-**GC**TGA
 Chso CCTAAAAT--TAA**CCG**T**AA**C**CC**-ACACT**GG****GTGC**CTAC-----**AAGG**AAA**G**-**AC**TAA
 Lyto CAG---GAAATAA**CCG**T**AA**C**CC**-ACACA**GG****GTGC**CCA-----CA**GGG**AAA**G**-**GC**TAA

Encr CAGGAA-TTA--A CCGT T AAC CCC-ACACA GG T GTGC CCAC-----A GGG AAA G- GC TAA
 Bvar CAATAACACA--- CCGT T AAC CCC-ACACA GG C GTGC GCCT-----T AGG AAA G- AC TAA
 Noco CAACCA-CCA-A- CCGA T ACC CCA-ACACA GG T GTGC CCCT-----A GGG AAA A- AC TAA
 Chsp CA--AAACATA-A CCGT T ACC CCT-ACACT GG C ATGC CAC-----TA AGG AAA G- AC TAA
 Arja AAAAACTA-A--- CCGT T ACC CCT-ACACA GG T GTGC CCCC-----A GGG AAA G- AC TAA
 Pase CATCAATTA--AA CCGT T AAC CCC-ACACT GG T GTGC CT-----TA AGG AAA G- AT TAA
 Trel CAAT--TAATCA- CCGT T GAC CCC-ACACT GG A GAGC CTG-----CA AGG AAA G- AC AAA
 Lifa TAACTATTAA--A CCGT T TAC CCC-ACACC GG A GTGC CACC-----C AGG GAA G- AC TAA
 Acur CATCTATTA--AA CCGT T GAT C T T-ACACT AG G T TAC CT-----ATA AGG AAA G- AC TAA
 Ampe CAACTA---AAGA CCGT T AAC CCC-ACACT GG T GTGC CCCC-----A AGG AAA G- AC TGA
 Urja CACCCATT---A- CCGT T AAC CCT-ACACA GG C ATGC TTT-----TA AGG AAA G- AC TAA
 Enet CAC-TGCTAA--- CCGT T AAC C T T-ACACT AG A GTGC CTTT-----AA AGG AAA G- AC TAA
 Ptbr TCA--CCCTGC-A CCGT T AAC C T T-ACACT AG A ATGA CT-----ATA AGG AAA G- AC TAA
 Safa CACAGTCCAA--- CCGT T AAC C T T-ACACC AG A GTGC CCCC-----A AGG AAA G- AC TAA
 Icae CAATAA---ACAA CCGT T AAC CCC-ACACT GG T GTGC CCCT-----A AGG AAA G- AC TAA
 Asmi CTTATA--CCTTT G C A T T ACC C T A-ACACA AG C GTGC TTTT-----T AGG AAA G- AT TAA
 Foal CATAAA----TAA CCGT T AAC CCC-ACACA GG T GTGC CCAC-----A AGG AAA G- AC AAT
 Drze CAAAAT---TTTA CCGT T AAT C C T-ACACT GG T GTGT TAAA-----T GGG AAA G- AC TAA
 Rhas CA-ACAA-AAA- CCGT T GAG C C C-ACACA GG A GTGC CTC-----C AGG AAA G- AC TAA
 Elac CATCAAATA-A- CCGT T AAC CCC-ACACA GG A GTGC CC-----C AGG AAA G- AC TAA
 Kugu CAATAACACCAAAA CCGT T AAC CCC-ACACT GG T GTGC TAA-----CC AGG AAA G- AC TAA
 Plor CACATA--AACAA CCGT T AAC CCC-ACACT GG T GTGC CCCC-----A AGG AAA G- AC TAA
 Sgun TAC---AACCCAA CCGT T AAC CCC-ACACT GG T GTGC TCA-----AA TGG AAA G- AC TAA
 Zaco CTACA---AAAA CCGT T AAC C C T-ACACA GG T GTGC CC-----ACA AGG AAA G- AC TAA
 Zbfl CATTAAA-TAA- CCGT T AAC CCC-ACACT GG T GTGC CCC-----AA GGG AAA G- AC TAA
 Spba CCA--CCATCACA CCGT T AAC C C T-ACACT GG T ATGC TCC-----CA AGG AAA G- AC TAA
 Game CA-ATAAGT--AA CCGT T AAC CCC-ACACT GG T GTGC CC-----CTA AGG AAA G T AC TAA
 Thth CAA--AAA-ACAA CCGT T AAC CCC-ACACT GG T GTGC CATT-----A AGG AAA G- AC TAA
 Xigl CAGCTTAT---TA CCGT T AAC CCC-ACACT GG T GTGC CCCT-----A AGG AAA G- AC TA-
 Hyja CAATGA---ATAA CCGT T AAC CCA-ACACT GG T GTGC CTAT-----A AGG AAA G- AC TAA
 Psan CAATTGATTA--- CCGT T AAC CCA-ACACT GG T GTGC CCAT-----A AGG AAA G- AC TAA
 Cupa CA-ATTAATAA--- CCGT T AAC CCC-ACACT GG T GTGC CCC-----T-A AGG AAA G- AC TAA
 Mpch CAACAA-T---AA CCGT T AAC CCC-ACACT GG T GTGC TAA-----AA AGG AAA G- AC TAA
 Char CAAGAA---ACAA CCGT T AAG C C C-ACACT GG C GTGC CCCC-----A AGG AAA G- AC TAA
 Pser TAATAATATAAC- CCGT T AAC CCC-ACWCT GG T ATGC ACCT-----C GGG AAA G- AC AAA
 Prol CAATAC---AACC CCGT T AAC CCC-ACACT GG T GTGC CCCA-----G AGG AAA G- AC CCA
 Plbi CC-AATGTA--- CCGT T AAC CCC-ACACT GG T GTGC CCA-----AA AGG AAA G- AC CAA
 Calu CACCCCCAA--- CCGT T GAC C C C-ACACT GG C GTGC AT-----GA AGG AAA G- AC TAA
 Papa CAAAAAAC---AA CCGT T AAC CCA-ACACA GG A GTAC TATA--TTAA AGG AAA G- AC TAA
 Suf r CAAACAATTA-G- CCGT T GAC C C C-ACACT GG A ATTA-CCG--C--A AGG GAA A- GC TGA
 Stci CAGCCACC---CA C C T T T ACC C C C-ACACT GG C GTGC C-CA-----A AGG AAA A- AC TAA
 Taru TAACAC---TTTT CCGT T T ACC C C T-ACACT GG T GTGC CAAA-----T AGG AAA G- AC TAA
 Rala CAATAAACCC--- CCGT T AAC CCC-ACACT GG A ATGC TTA-----AT AGG AAA G- AC TAA

	32		33	34	C
Scca	AA GAAA - GTA AGG AACTCGGCAAACA-----T AAACT - CCC CC TGTT ACC AA				
Muma	AA GAAA - ATA AGG AACTCGGCAAACAC----- AAACT - CCC CC TGTT ACC AA				
Erca	AA GAGA - AAA AGG AACTCGGCAAACC-----T GAGCC - CCC CC TGTT ACC AA				
Pose	AA GAGA - AAA AGG AACTCGGCAAAC----- GAGCC - CCC CC TGTT ACC AA				
Actr	AA GAAA - AAG AGG AACTCGGCAAACA----- GAGCC - TCC CC TGTT ACC AA				
Scal	AA GAAA - AAG AGG AACTCGGCAAACA----- GAGCC - TCC CC TGTT ACC AA				
Posp	AA GAAA - AAG AGG AACTCGGCAAACA----- GAGCC - TCC CC TGTT ACC AA				
Atsp	AA GAAA - AAG AGG AACTCGGCAACCC----- GAGCC - TCC CC TGTT ACC AA				
Leoc	AA GAAA - AAG AGG AACTCGGCAACCC----- GAGCC - TCC CC TGTT ACC AA				
Amca	AA GAAA - AGA AGG AACTCGGCAAACA----- GAGCC - TCC CC TGTT ACC AA				
Osbi	AT GAGG AAG AGG AACTCGGCAAACC-----A AGGTC - TCC CC TGTT ACC AA				
Pabu	AT GGAG - AAA AGG AACTCGGCAAACA----- GGGCC - TCC CC TGTT ACC AA				
Hial	AA GGAA - AAG AGG AACTCGGCAAACA----- GGGCC - TCC CC TGTT ACC AA				
Elha	AA GAGA - CGA AGG AACTCGGCAAAC----- GAGCC - TCC CC TGTT ACC AA				
Mlcy	AA GGAA - TAG AGG AACTCGGCAAACA-----T GAGCC - CCC CC TGTT ACC AA				
Algl	AG GGGA - GAG AGG AACTCGGCAAACA-----T GAGCC - TCC CC TGTT ACC AA				
Ptgi	AA GGGG - AAG AGG AACTCGGCAAACA-----T GAGCC - TCC CC TGTT ACC AA				
Alaf	AG GAGA - GAG AGG AACTCGGCAAACA----- GAGCC - TCC CC TGTT ACC AA				
Nock	AG AAGA - GAG AGG AACTCGGCAAACC----- GAGCC - TCC CC TGTT ACC AA				
Anja	AA AGGA GAG AGG AACTCGGCAAACA-----C AAACC - CCC CC TGTT ACC AA				
Gyki	AA GGAA - GAG AGG AACTCGGCAAAGC-----A AAGTC - CCC CC TGTT ACC AA				
Syka	AA GGAG - AAG AGG AACTCGGCAAACA-----C AAACC - CCC CC TGTT ACC AA				
Opma	AA GGAG - AAG AGG AACTCGGCAAACA-----T CAACC - CCC CC TGTT ACC AA				
Comy	AA GGGG - AAG AGG AACTCGGCAAACA-----C AAACC - TCC CC TGTT ACC AA				
Sasp	AA GGGA - GGG AGG AACTCGGCAAACA-----T ATCCC - CCC CC TGTT ACC AA				
Eupe	AA GGAG - AAG AGG AACTCGGCAAACA-----C AAACC - CCC CC TGTT ACC AA				
Enja	AA GAAA - AAA AGG AACTCGGCAAACC----- GAGCC - TCC CC TGTT ACC AA				
Same	AA GAAT - TAA AGG AACTCGGCAAAC-----A GAACC - TCC CC TGTT ACC AA				
Chch	AA GGGA - AGA AGG AACTCGGCAAACA-----T AAGCC - TCC CC TGTT ACC AA				
Grgr	GA GGGG - GGA AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Caau	AA GAAA - AGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Cyca	AA GAAA - AGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Dare	AA GAAA - GGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Cost	AA GAAA - GGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Leec	AA GAAA - AGG AGG AACTCGGCAAACA-----T AAGCC - TCC CC TGTT ACC AA				
CrIa	AA GAAA - AGG AGG AACTCGGCAAACA-----T AAGCC - TCC CC TGTT ACC AA				
Clmc	AA GAAA - AGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Phin	AA AGGA GAG AGG AACTCGGCAAACA-----CC AAGCC - CCC CC TGTT ACC AA				
Icpu	AA GAAA - AGG AGG AACTCGGCAAACA-----T AAGCC - TCC CC TGTT ACC AA				
Psto	AA GAAA - AGG AGG AACTCGGCAAACACTTA----C AAGCC - TCC CC TGTT ACC AA				
Cora	AA GAAA - AGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Eisp	AA GAAA - AGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Apal	AA GAAA - AGG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
EsLu	AA GAAA - GAG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Dape	AA GAAA - AAG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Glse	AA GGAG - AAG AGG AACTCGGCAAAC-----C AAGCC - TCC CC TGTT ACC AA				
Naar	AA AGAG - AAG AGG AACTCGGCAAACC-----C AAGCC - TCC CC TGTT ACC AA				
Baoc	AA AGAG - AAG AGG AACTCGGCAAACC-----C AAGCC - TCC CC TGTT ACC AA				
Opso	AA GGAG - AAG AGG AACTCGGCAAATC-----C AAGCC - TCC CC TGTT ACC AA				
Alte	AA GGAA - AAG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				
Plap	AA GGAA - AAG AGG AACTCGGCAAACA-----C AAGCC - TCC CC TGTT ACC AA				

Plal AA**GGGG**-**GAA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Sami AA**GGGG**-**GACA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Rere AA**GGAA**-**GAGA****AGG**AACTCGGCAAACA-----**TGAGCC**-**TCC**CC**TGTT**ACC**AA**
 Gama AA**GGAG**-**AAGA****AGG**AACTCGGCAAACG-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Onmy AA**GGAA**-**GAGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Sasa AA**GGAA**-**GAGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Cola AA**GGAA**-**GAGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Dita AA**GGGA**-**GAGA****AGG**AACTCGGCAAGCA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Gogr AA**GGAA**-**GAGA****AGG**AACTCGGCAAACA-----**TGAGCC**-**CCC**CC**TGTT**ACC**AA**
 Chsl AA**GGAA**-**AAA****AGG**AACTCGGCAAACA-----**TGGCC**-**TCC**CC**TGTT**ACC**AA**
 Atja AA**GGAT**-**GAGA****AGG**AACTCGGCAAACA-----**TAGCC**-**TCC**CC**TGTT**ACC**AA**
 lido AA**GGAC**-**AAGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Auja AA**GAGA**-**AGGA****AGG**AACTCGGCAAACC-----**CAGCC**-**CCC**CC**TGTT**ACC**AA**
 Chag AA**GATA**-**AGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Hami AG**GGGG**-**AGGA****AGG**AACTCGGCAATCA-----**GAGCC**-**TCC**CC**TGTT**ACC**AA**
 Saun AA**AGAG****AGGA****AGG**AACTCGGCAAACCCA-----**CAGCC**-**CCC**CC**TGTT**ACC**AA**
 Nema AA**TAAA**-**GGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Disp AA**TGAG**-**GGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Myaf AT**TAAA**-**GGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Lagu AA**GAGA**-**GAGA****AGG**AACTCGGCAAACC-----**CAGCC**-**CCC**CC**TGTT**ACC**AA**
 Trtr AA**GAGA**-**GGGA****AGG**AACTCGGCAAACA-----**TAGCC**-**CCC**CC**TGTT**ACC**AA**
 Zucr AA**GAGA**-**GGGA****AGG**AACTCGGCAAACA-----**TAGCC**-**CCC**CC**TGTT**ACC**AA**
 Pxja AA**GAAA**-**AGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Pxlo AA**GAAA**-**AGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Pctr AA**GAAA**-**AAGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Apsa AA**GAAA**-**AAGA****AGG**AACTCGGCAAACAC-----**CCC****CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Cabe AT**GAAG**-**AAA****AGG**AACTCGGCAAACCT-----**AGGCC**-**TCC**CC**TGTT**ACC**AA**
 Bzze AA**GAGA**-**AGGA****AGG**AACTCGGCAAGCA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Siim AA**GGAA**-**GGGA****AGG**AACTCGGCAAACA-----**AAGCC**-**CCC**CC**TGTT**ACC**AA**
 Ctru AA**GAAA**-**AAGA****AGG**AATTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Dpbr AA**GGAA**-**AAGA****AGG**AACTCAGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Caki AA**GGAA**-**AGAA****AGG**AACTCGGCAAACCT-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Phja AA**GAGA**-**AGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Brsp AA**AGGA****GAGA****AGG**AACTCGGCAAACC-----**TAGCC**-**CCC**CC**TGTT**ACC**AA**
 Gamo AA**GAGA**-**AGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Lolo AA**GAGA**-**AGGA****AGG**AACTCGGCAAACA-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Batr AA**AGAA****GAGGA****AGG**AACTCGGCAAACC-----**TAGCC**-**TCC**CC**TGTT**ACC**AA**
 Prmy AA**GAAA**-**ATA****AGG**AACTCGGCAAACA-----**TAAATC**-**CCC**CC**TGTT**ACC**AA**
 Loli AA**AGAT****GGGGA****AGG**AACTCGGCAAACACC-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Loam AA**GGGG**-**AAGA****AGG**AACTCGGCAAACACACC-----**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Chab AA**GAAA**-**GAGA****AGG**AACTCGGCAAACACAT-----**AAGCC**-**TCC**CC**TGTT**ACC**AA**
 Chto AA**GAAA**-**GAGA****AGG**AACTCGGCAAACACAT-----**AAGCC**-**TCC**CC**TGTT**ACC**AA**
 Majo AA**GAAA**-**AAGA****AGG**AACTCGGCAAATCAAA---**T**-**GAGCC**-**TCC**CC**TGTT**ACC**AA**
 Hlst AA**GGAA**-**GAGA****AGG**AACTCGGCAAATC-----**TAGCC**-**CCC**CC**TGTT**ACC**AA**
 Clpe AA**GAAA**-**GAGA****AGG**AACTCGGCAAACACAT-----**AGGCC**-**TCC**CC**TGTT**ACC**AA**
 Mlmr AA**GAAA**-**GAGA****AGG**AACTCGGCAAACATACA---**TT****AAGCC**-**TCC**CC**TGTT**ACC**AA**
 Crcr AA**GGAA**-**AAGA****AGG**AACTCGGCAAACACTC--**CAT****AAGCC**-**TCC**CC**TGTT**ACC**AA**
 Muce AA**GGAA**-**AAGA****AGG**AACTCGGCAAACACTC-**CA**-**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Bege AA**GAAA**-**AAGA****AGG**AACTCGGCAAATTATC--**CAC****AAGCC**-**TCC**CC**TGTT**ACC**AA**
 Mela AA**GAAA**-**AAGA****AGG**AACTCGGCAAACATA-----**AT****TGGCC**-**TCC**CC**TGTT**ACC**AA**
 Hats AA**GAAA**-**AAGA****AGG**AACTCGGCAAAAATTCT---**CAGCC**-**TCC**CC**TGTT**ACC**AA**
 Orla AA**GGAA**-**GAGA****AGG**AACTCGGCAAATATA-----**CC****AAGCC**-**TCC**CC**TGTT**ACC**AA**

Cosa AA**GAAA**-**AAG****AGG**AACTCGGCAAACATAAAAC---C**AAGCC**-**TTC**CC**TGTTT**ACC**AA**
 Exsp AA**GGAG**-**AAG****AGG**AACTCGGCAAACATATTT---A**CGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Depa AA**GAAA**-**AAG****AGG**AACTCGGCAAATA-----A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Rima AA**GGAG**-**CAT****AGG**AACTCGGCAAACACGCAC-A--C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Fuol AA**GGGG**-**AAG****AGG**AACTCGGCAAATACCCAA-T--T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Gmaf AA**GGGG**-**GAG****AGG**AACTCGGCAAACAAACC---A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Xeei AA**AGAG**-**AAG****AGG**AACTCGGCAAACCTGCT---CT**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Pros AA**GAGA**-**AAA****AGG**AACTCGGCAAACA-----T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Scmi AA**GAGA**-**AAA****AGG**AACTCGGCAAACA-----T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Rolo AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Cere AA**GGAA**-**AAG****AGG**AACTCGGCAAACG-----C**AAGCC**-**CCC**CC**TGTTT**ACC**AA**
 Daga AA**GGAA**-**GAG****AGG**AACTCGGCAAGCA-----A**AAGCC**-**CCC**CC**TGTTT**ACC**AA**
 Anco AA**GAAA**-**AAG****AGG**AACTCGGCAAACC-----C**AGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Dmve AA**AGAG**-**AAG****AGG**AACTCGGCAAACC-----T**GGGCT**-**CCC**CC**TGTTT**ACC**AA**
 Dmar AA**GAAA**-**AAG****AGG**AACTCGGCAAACC-----T**GGGCT**-**CCC**CC**TGTTT**ACC**AA**
 Anka AA**GAAA**-**GAG****AGG**AACTCGGCAAACC-----C**AGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Moja AA**GAAA**-**AAG****AGG**AACTCGGCAAACC-----C**AGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hoja AA**GAAA**-**AAG****AGG**AACTCGGCAAACC-----C**AGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Bede AA**GAGA**-**AAA****AGG**AACTCGGCAAACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Bsp AA**GAGA**-**AAA****AGG**AACTCGGCAAACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Mysp AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----C**AGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Osja AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Sgro AA**GAAT**-**AAG****AGG**AACTCGGCAAACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Pzpa AA**AGAA**-**AAG****AGG**AACTCGGCAAACC-----A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Zeja AA**GAAA**-**AAG****AGG**AACTCGGCAAACC-----A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Znne AA**GAAA**-**AAG****AGG**AACTCGGCAAACACT-----AT**CAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Zefa AA**GAAA**-**AAG****AGG**AACTCGGCAAAC-----TA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Acni AA**GAAA**-**AAG****AGG**AACTCGGCAAAC-----CA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Ncrh AA**GAAA**-**AAG****AGG**AACTCGGCAAAC-----CA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Agca AA**GAAA**-**GAA****AGG**AACTCGGCAAACACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hydy AA**GGAA**-**AAG****AGG**AACTCGGCAAACA-----T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Gsac AA**GAAA**-**GAG****AGG**AACTCGGCAAACACAT-----A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Pevo AA**GGAA**-**AAG****AGG**AACTCGGCAAAC---A-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hiku AA**GGGT**-**GAG****AGG**AACTCGGCAAACATAAT-AACAC**TAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Inpa AA**AAAA**-**GAA****AGG**AACTCGGCAACCCCA-----CC**AAGCC**-**CCC**CC**TGTTT**ACC**AA**
 Auch AA**GAAG**-**GAG****AGG**AACTCGGCAAACACATAT-TCT**AAGCC**-**CCC**CC**TGTTT**ACC**AA**
 Fico AA**GGGA**-**AAG****AGG**AACTCGGCAAACA-----CC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Macs AA**GAGA**-**GAG****AGG**AACTCGGCAAACATATTT---G**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Moal AC**CAAT**-**GAG****AGG**AACTCGGCAAACACCT-----C**AGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Syma AA**TAAAG**-**GAG****AGG**AACTCGGCAAACA-----T**AGGCT**-**CCC**CC**TGTTT**ACC**AA**
 Maf r AA**GAAA**-**AAG****AGG**AACTCGGCAAACATACCTT--AT**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Dcpe AA**GAAA**-**GAG****AGG**AACTCGGCAAACA-----CCA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Dct i AA**GAAA**-**GAG****AGG**AACTCGGCAAAC----AC---CT**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hehi AA**GAAA**-**GAG****AGG**AACTCGGCAAACAAT-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Stam AA**AGAA**-**GAG****AGG**AACTCGGCAAACACATTT---A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hogi AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----CACC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Erzo AA**GAAA**-**GAG****AGG**AACTCGGCAAACATAC-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hxot AA**GAAA**-**GAG****AGG**AACTCGGCAAACACAT-----A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Core AA**GAAA**-**GAG****AGG**AACTCGGCAAACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Apve AA**AAAA**-**GAG****AGG**AACTCGGCAAACACC-----T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Lat j AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Laja AA**GAAA**-**AAG****AGG**AACTCGGCAAACAC-----AT**AAGCC**-**TCC**CC**TGTTT**ACC**AA**

Syja AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----CAT**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Epme AA**GAAA**-**GAG****AGG**AACTCGGCAAACACA-----CT**CAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Grse AA**GGAA**-**AAG****AGG**AACTCGGCAAACACCCAT---TA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Clja AA**GAAG**-**GAG****AGG**AACTCGGCAAACA-----C**TGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Ogcy AA**GAAA**-**AAG****AGG**AACTCGGCAAACATATCT-CTTA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Plna AA**GAAA**-**AAG****AGG**AACTCGGCAAATATACCCT-ACT**AGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Lema AA**GAAA**-**GAG****AGG**AACTCGGCAAACACAT-----G**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Etzo AA**GAAA**-**GAG****AGG**AACTCGGCAAACACA-----TC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Apse AA**GAAA**-**AAG****AGG**AACTCGGCAAACACTT-----C**TAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Epde AA**AGAA****AAG****AGG**AACTCGGCAAACACA-----TA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Slja AA**GAAA**-**AAG****AGG**AACTCGGCAAACACC-----TA**GAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Bsja AA**GAAA**-**GAG****AGG**AACTCGGCAAA-----TA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Ecna AA**GAAT**-**GAG****AGG**AACTCGGCAAACAC-----ATG**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Cohi AA**GAAG**-**GAG****AGG**AACTCGGCAAA-----AC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Caar AA**GAAA**-**GAG****AGG**AACTCGGCAAACAAA---TTCC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Came AA**AGAA****GAG****AGG**AACTCGGCAAACAT----TTCTC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Mema AA**GAAA**-**GAG****AGG**AACTCGGCAAACA-----CCTA**AAACC**-**CCG**CC**TGTTT**ACC**AA**
 Lenu AA**AAGA**-**AGG****AGG**AACTCGGCAAACAATCCACCTA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Brja AA**GAAG**-**GAG****AGG**AACTCGGCAAACC----AACC**CAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Plma AA**AGAA****GAG****AGG**AACTCGGCAAACATA---ACTT**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Emst AG**GAAA**-**GAG****AGG**AACTCGGCAAACA-----CATG**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Ptti AA**GAAA**-**GAG****AGG**AACTCGGCAAACAC-----ATAG**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Losu CA**GAAA**-**GAG****AGG**AACTCGGCAAACA-----TT**TAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Geoy AA**GAAA**-**GAG****AGG**AACTCGGCAAACAC-----ATG**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Dipi AA**GAAA**-**AAG****AGG**AACTCGGCAAACACA-----TG**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Pama AA**GGGA**-**AGG****AGG**AACTCGGCAAACACT--T---A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Leob AA**GAAA**-**GAG****AGG**AACTCGGCAAACATC-----T**GAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Neba AA**GAAA**-**AAG****AGG**AACTCGGCAAAAAAC-----C**TAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Pdpi AA**GAAA**-**AAG****AGG**AACTCGGCAAACACTAAC---T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Nimi CA**GAAA**-**AAG****AGG**AACTCGGCAAACACA-----TA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Uptr AA**GAGA**-**AAG****AGG**AACTCGGCAAATTAA-----AT**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Pesc AA**GAAA**-**GAG****AGG**AACTCGGCAAACAC-----T**ATGCC**-**TCC**CC**TGTTT**ACC**AA**
 Baar AA**GAAA**-**AAG****AGG**AACTCGGCAAACACATAA---TT**TAGTC**-**CCG**CC**TGTTT**ACC**AA**
 Moar AA**GAAA**-**GAG****AGG**AACTCGGCAAACACAT-----A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Toja AA**GAAA**-**AAG****AGG**AACTCGGCAAACACAT-----G**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Chau AA**GAAA**-**AAG****AGG**AACTCGGCAAAT-----CA**AGACC**-**CCG**CC**TGTTT**ACC**AA**
 Chse AA**GAAA**-**GAA****AGG**AACTCGGCAAACA-----CACT**TGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Enar AA**GAAA****AAG****AGG**AACTCGGCAAACA-----CATG**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hpty AA**GAAA**-**AAG****AGG**AACTCGGCAAACAC-----ACA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Nana AA**GAAA**-**AAG****AGG**AACTCGGCAAACAC-----ATA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Mcst AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----CATA**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Rhox AA**GAGA**-**AAG****AGG**AACTCGGCAAACAC-----AT**TGGCC**-**TCC**CC**TGTTT**ACC**AA**
 Opfa AA**GAAA**-**AAG****AGG**AACTCGGCAAACAC-----A**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Paar AA**GGAA**-**AAG****AGG**AACTCGGCAAACCC-----A**CAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Gozo AA**GAAA**-**GAG****AGG**AACTCGGCAAACACA-----TG**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Ackr AA**GGGA**-**GAG****AGG**AACTCGGCAAACA-----C**ATGCC**-**TCC**CC**TGTTT**ACC**AA**
 Elev AA**AGAA**-**AAG****AGG**AACTCGGCAAACA-----C**AAGCC**-**CCG**CC**TGTTT**ACC**AA**
 Trdu AA**GAAA**-**AAG****AGG**AACTCGGCAAACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Amoc AA**GAAA**-**AAG****AGG**AACTCGGCAAT--CATAA---T**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Hame AA**GAGA**-**AAG****AGG**AACTCGGCAAACACC-----TC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Chso AA**AGGA**-**GAG****AGG**AACTCGGCAAACATC----CAC**AAGCC**-**TCC**CC**TGTTT**ACC**AA**
 Lyto AA**GAAA**-**GAG****AGG**AACTCGGCAAACACACA-----C**AAGCC**-**TCC**CC**TGTTT**ACC**AA**

Encr	AA	GAGA	-GAGA	AGG	AACTCGGCAAACACA	----	TCA	AAGCC	-TCC	CC	TGTTT	ACC	AA
Bvar	AA	GAAA	-GAGA	AGG	AACTCGGCAAAC	-----	ATA	AAGCC	-TCC	CC	TGTTT	ACC	AA
Noco	AA	GGGG	-GAGA	AGG	AACTCGGCAAACA	-----	CATA	AAGCC	-TCC	CC	TGTTT	ACC	AA
Chsp	AA	GGGG	-AAGA	AGG	AACTCGGCAAAC	-----	AT	AAGCC	-TCC	CC	TGTTT	ACC	AA
Arja	AA	GAAA	-GAGA	AGG	AACTCGGCAAACA	-----	CATT	AAGCC	-TCC	CC	TGTTT	ACC	AA
Pase	AA	GGAA	-AAGA	AGG	AACTCGGCAAAC	-----	TATC	AAGCC	-CCG	CC	TGTTT	ACC	AA
Trel	AA	GAAT	-AAGA	AGG	AACTCGGCAAAC	-----	CCC	TAGCC	-CCG	CC	TGTTT	ACC	AA
Lifa	AA	GGAA	-GAGA	AGG	AACTCGGCAAAC	-----	CTA	AAGCC	-TCC	CC	TGTTT	ACC	AA
Acur	AA	GGAA	-GAGA	AGG	AACTAGGCAA	-----	CACCT	TAGCC	-TCC	CC	TGTTT	ACC	AA
Ampe	AA	GAAA	-AAGA	AGG	AACTCGGCAAACA	-----	CATG	AAGCC	-TCC	CC	TGTTT	ACC	AA
Urja	AA	AAAG	-AAGA	AGG	AACTCGGCAAACA	-----	CCC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Enet	AA	GGGA	-AAGA	AGG	AACTCGGCAAAC	-----	CC	CAGCC	-TCC	CC	TGTTT	ACC	AA
Ptbr	AA	GAGA	-AAGA	AGG	AACTCGGCAAAC	-----	TTAT	AAGCC	-TCC	CC	TGTTT	ACC	AA
Safa	AA	AGAG	-AGGA	AGG	AACTCGGCAAG	-----	ATAAC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Icae	AA	GAAG	-AAGA	AGG	AACTCGGCAAACATA	-----	CC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Asmi	AA	GAAA	-AGGA	AGG	AACTCGGCAAAC	-----	AC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Foal	AA	AGGT	-TGG	AGG	AACTCGGCAAAC	-----	CC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Drze	AA	GAGA	-AAGA	AGG	AACTCGGCAAATAT	-----	TG	TAGCC	-TCC	CC	TGTTT	ACC	AA
Rhas	AG	GAAA	-AAGA	AGG	AACTCGGCAA	-----	CAT	TAGCC	-TCC	CC	TGTTT	ACC	AA
Elac	AA	GAAA	-AAGA	AGG	AACTCGGCAA	-----	CAC	TGGCC	-TCC	CC	TGTTT	ACC	AA
Kugu	AA	GAAA	-AAGA	AGG	AACTCGGCAAACA	-----	CCTC	TAGCC	-CCG	CC	TGTTT	ACC	AA
Plor	AA	GAAA	GAGA	AGG	AACTCGGCAAACA	-----	TAT	ACGCC	-TCC	CC	TGTTT	ACC	AA
Sgun	AA	GAAA	-GAGA	AGG	AACTCGGCAAAC	-----	ATG	AAGCC	-TCC	CC	TGTTT	ACC	AA
Zaco	AA	GAAA	-GAGA	AGG	AACTCGGCAAAC	-----	ATG	AAGCC	-TCC	CC	TGTTT	ACC	AA
Zbfl	AA	GAAA	-GAGA	AGG	AACTCGGCAAAC	-----	TAC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Spba	AA	GAAA	-AAGA	AGG	AATTCAGCAAACCA	----	TTAC	TAGCC	-TCC	CC	TGTTT	ACC	AA
Game	AA	GAAA	-AAGA	AGG	AACTCGGCAAAC	-----	ACC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Thth	AA	GAAA	-AAGA	AGG	AACTCGGCAAACA	-----	TACC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Xigl	AA	AGAA	GAGA	AGG	AACTCGGCAAACA	-----	CATG	AAGCC	-TCC	CC	TGTTT	ACC	AA
Hyja	AA	GAAA	-AAGA	AGG	AACTCGGCAAAC	-----	AG	AAGCC	-TCC	CC	TGTTT	ACC	AA
Psan	AA	GAAA	-AAGA	AGG	AACTCGGCAAATA	-----	TTA	AAGCC	-TCC	CC	TGTTT	ACC	AA
Cupa	AA	GAAA	-AAGA	AGG	AACTCGGCAAACAT	----	TTTCC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Mpch	AA	GAAA	-AAGA	AGG	AACTCGGCAAACA	-----	T	AAGCC	-TCC	CC	TGTTT	ACC	AA
Char	AA	GAAA	-AAGA	AGG	AACTCGGCAAACACC	-----	CT	AAGCC	-TCC	CC	TGTTT	ACC	AA
Pser	AG	GAAA	-AAGA	AGG	AACTCGGCAAATACACAA	----	C	AAGCC	-TCC	CC	TGTTT	ACC	AA
Prol	AG	GGGG	-GAGA	AGG	AACTCGGCAAACATACC	----	CC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Plbi	AG	GGGG	-GAGA	AGG	AACTCGGCAAACATACCC	----	C	AAGCC	-TCC	CC	TGTTT	ACC	AA
Calu	AA	GAGA	-GAGA	AGG	AACTCGGCAAACA	-----	ATG	AAGCC	-TCC	CC	TGTTT	ACC	AA
Papa	AA	GGAC	-GGG	AGG	AACTCGGCAAATA	-----	CT	TAGCC	-TCC	CC	TGTTT	ACC	AA
Sufr	AA	GGGA	-GAGA	AGG	AACTCGGCAA	-----	CAC	AAGCC	-TCC	CC	TGTTT	ACC	AA
Stci	AA	GAGA	-AAGA	AGG	AACTCGGCAAACA	-----	C	AAGCT	-TCC	CC	TGTTT	ACC	AA
Taru	AA	GAAA	-AAGA	AGG	AACTCGGCAAAC	-----	CA	AAGCC	-TCC	CC	TGTTT	ACC	AA
Rala	AA	GAAA	-AAGA	AGG	AACTCGGCAAACATA	----	CTC	AAGCC	-TCC	CC	TGTTT	ACC	AA

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	34'	35	!	HVR	!
Scca	AAACA	CCG	CCTCTTG	CTTA	-----
Muma	AAACA	TCG	CCTCTTG	TT - A - AA	-----
Erca	AAACA	TCG	CCTTCAG	CTAAC	-----
Pose	AAACA	TCG	CCTTCAG	CTTT	-----
Actr	AAACA	TCG	CCTCTTG	CAAA	-----
Scal	AAACA	TCG	CCTCTTG	CAAACC	-----
Posp	AAACA	TCG	CCTCTTG	CAAACAA	-----
Atsp	AAACA	TCG	CCTCTTG	CAAACACCA	-----
Leoc	AAACA	TCG	CCTCTTG	CNAACA	-----
Amca	AAACA	TCG	CCTCTTG	CAATCC	-----
Osbi	AAACA	TGG	CCTCTTG	CAAACCCC	-----
Pabu	AAACA	TGG	CCTCTTG	C - - AACC	-----
Hial	AAACA	TCG	CCTCTTG	CAAAAA	-----
Elha	AAACA	TCG	CCTCTTG	CAAAACA	-----
Mlcy	AAACA	TCG	CCTCTTG	CGAACAA	-----
Algl	AAACA	TCG	CCTCTTG	CTAAAA	-----
Ptgi	AAACA	TCG	CCTCTTG	CTAAA	-----
Alaf	AAACA	TCG	CCTCTTG	CTAAAA	-----
Nock	AAACA	TCG	CCTCTTG	CTAAAA	-----
Anja	AAACA	TCG	CCTCTTG	CTAACAA	-----
Gyki	AAACA	TCG	CCTCTTG	CTAATA	-----
Syka	AAACA	TCG	CCTCTTG	CCAACAA	-----
Opma	AAACA	TCG	CCTCTTG	CTAAGA	-----
Comy	AAACA	CCG	CCTCCTG	C - AAATA	-----
Sasp	AAACA	TCG	CCTCTTG	CTAATAA	-----
Eupe	AAACA	CCG	CCTCTTG	CAACAAC	-----
Enja	AAACA	TCG	CCTCTTG	CA - - T	-----
Same	AAACA	TCG	CCTCCTG	CCACCAC	-----
Chch	AAACA	TCG	CCTTCTG	CCAA - AA	-----
Grgr	AAACA	TCG	CCTCCTG	CAAAAA	-----
Caau	AAACA	TCG	CCTCCTG	CAACACA	-----
Cyca	AAACA	TCG	CCTCCTG	CAACA	-----
Dare	AAACA	TCG	CCTCCTG	ACAT	-----
Cost	AAACA	TCG	CCTCCTG	CA - AA	-----
Leec	AAACA	TCG	CCTCCTG	CAAACC	-----
CrIa	AAACA	TCG	CCTCCTG	CAAACC	-----
Clmc	AAACA	TCG	CCTCCCG	CAAAAA	-----
Phin	AAACA	TCG	CCTCCTG	CTAACCTT	-----
Icpu	AAACA	TCG	CCTCCTG	CAAAAA	-----
Psto	AAACA	TCG	CCTCCTG	CAAAAA	-----
Cora	AAACA	TCG	CCTCCCG	CAAAAAT	-----
Eisp	AAACA	TCG	CCTCCCG	CAAAA	-----
Apal	AAACA	TCG	CCTCCTG	CAAAAA	-----
EsLu	AAACA	CCG	CCTCTTG	T - - CT	-----
Dape	AAACA	TCG	CCTCTTG	C - - CAAC	-----
Glse	AAACA	TCG	CCTCTTG	CAA - - TCC	-----
Naar	AAACA	TCG	CCTCTTG	C - AAAT	-----
Baoc	AAACA	TCG	CCTCTTG	CAAATTT	-----
Opso	AAACA	TCG	CCTCTTG	C - - A	-----
Alte	AAACA	CCG	CCTCCTG	CAAATCA	-----
Plap	AAACA	CCG	CCTCCTG	CAAAT	-----

Plal	AAACA	TCG	CCTCTTG	ATCACA	-----
Sami	AAACA	TCG	CCTCTTG	A-GA--A	-----
Rere	AAACA	TCG	CCTCTTG	A--ATA	-----
Gama	AAACA	TCG	CCTCTTG	GTA	-----
Onmy	AAACA	TCG	CCTCTTG	C--AAAT	-----
Sasa	AAACA	TCG	CCTCTTG	TAAATC--A	-----
Cola	AAACA	TCG	CCTCTTG	CAAA--T	-----
Dita	AAACA	TCG	CCTCTTG	CTGAAC	-----
Gogr	AAACA	TCG	CCTCTTG	CCTAAA	-----
Chsl	AAACA	TCG	CCTCTTG	TAACACCCTCATAAGAGGTCTGCCTGCCAGTGACAATTGTAAAC	
Atja	AAACA	TCG	CCTCTTG	CGAACCA	-----
Iido	AAACA	TCG	CCTCTTG	C-AAAC	-----
Auja	AAACA	TCG	CCTCTTG	CAAAATC	-----
Chag	AAACA	TCG	CCTCTTG	T--AAAC	-----
Hami	AAACA	TCG	CCTCTTG	C--AAAA	-----
Saun	AAACA	TCG	CCTCTTG	CAAGATC	-----
Nema	AAACA	TCG	CCTCTTG	CAAAAA	-----
Disp	AAACA	TCG	CCTCTTG	CAAAAC	-----
Myaf	AAACA	TCG	CCTCTTG	CAAAATG	-----
Lagu	AAACA	CCG	CCTCTTG	C-AA	-----
Trtr	AAACA	TCA	CCTCTTG	C-AAT-T	-----
Zucr	AAACA	TCA	CCTCTTG	CAAG	-----
Pxja	AAACA	TCG	CCTCTTG	T-A-TAT	-----
Pxlo	AAACA	TCG	CCTCTTG	T--A	-----
Pctr	AAACA	TCG	CCTCTTG	TAAC--A	-----
Apsa	AAACA	CCG	CCTCTTG	C-AAAAC	-----
Cabe	AAACA	TCG	CCTCCCG	C-GCA-C	-----
Bzze	AAACA	TCG	CCTCTTG	C-AAA-G	-----
Siim	AAACA	TCG	CCTCTTG	C-AAA-A	-----
Ctru	AAACA	TCG	CCTCTTG	CAAAAAT	-----
Dpbr	AAACA	TCG	CCTCTTG	CAAA--A	-----
Caki	AAACA	TCG	CCTCTTG	ACCCAC	-----
Phja	AAACA	TCG	CCTCTTG	CTTAAG	-----
Brsp	AAACA	TCG	CCTCTCG	ACTC	-----
Gamo	AAACA	TCG	CCTCTTG	CTCC	-----
Lolo	AAACA	TCG	CCTCTTG	GAC	-----
Batr	AAACA	TCG	CTTCTTG	CAC	-----
Prmy	AAACA	TCG	CTTCTTG	A	-----
Loli	AAACA	TCG	CCTCTTG	TACCCTA	-----
Loam	AAACA	TCG	CCTCTTG	TAATT	-----
Chab	AAACA	TCG	CCTCTTG	CATAAA	-----
Chto	AAACA	TCG	CCTCTTG	CATAA	-----
Majo	AAACA	TCG	CCTCTTG	CCACAA	-----
Hlst	AAACA	TCG	CCTCTTG	TAATA	-----
Clpe	AAACA	TCG	CCTCTTG	CAATCAG	-----
Mlmr	AAACA	TCG	CCTCTTG	CAATCA	-----
Crcr	AAACA	TCG	CCTCTTG	TAAACC	-----
Muce	AAACA	TCG	CCTCTTG	TTA	-----
Bege	AAACA	TCG	CCTCTTG	TCA	-----
Mela	AAACA	TCG	CCTCTTG	ATCCCCT	-----
Hats	AAACA	TCG	CCTCTTG	TCAA-A	-----
Orla	AAACA	TCG	CCTCTTG	TAAAG	-----

Cosa	AAACA	CCG	CCTCTTG	CAA--T-----
Exsp	AAACA	CCG	CCTCTTG	CTAAAA-----
Depa	AAACA	CCG	CCTCTTG	CAACTC-----
Rima	AAACA	TCG	CCTCTTG	TAAT-----
Fuol	AAACA	TCG	CCTCTTG	AATTAA-----
Gmaf	AAACA	TCG	CCTTTTG	AAC-C-----
Xeei	AAACA	TCG	CCTCTTG	AAAATCC-----
Pros	AAACA	TCG	CCTCTTG	TAGAC-----
Scmi	AAACA	CCG	CCTCTTG	CCAACA-----
Rolo	AAACA	TCG	CCTCTTG	CAACAA-----
Cere	AAACA	TCG	CCTCTTG	T-AAA-A-----
Daga	AAACA	TCG	CCTCTTG	CAGCAA-----
Anco	AAACA	TCG	CCTCTTG	CAAAA-ACA-----
Dmve	AAACA	TCG	CCTCTTG	CAAACAA-----
Dmar	AAACA	TCG	CCTCTTG	C-AACT-----
Anka	AAACA	TCG	CCTCTTG	CAAAAA-----
Moja	AAACA	TCG	CCTCTTG	CA-A-AA-----
Hoja	AAACA	TCG	CCTCTTG	CAAA--A-----
Bede	AAACA	TCG	CCTCTTG	CA-----
Besp	AAACA	TCG	CCTCTTG	C-AAAAC-----
Mysp	AAACA	TCG	CCTCTTG	CAAAAA-----
Osja	AAACA	TCG	CCTCTTG	CA--A-----
Sgro	AAACA	TCG	CCTCTTG	CAAAAA-----
Pzpa	AAACA	TCG	CCTCTTG	AACTAT-----
Zeja	AAACA	TCG	CCTCTTG	AATAAT-----
Zzne	AAACA	TCG	CCTCTTG	A--AT-----
Zefa	AAACA	TCG	CCTCTTG	A-ATAAA-----
Acni	AAACA	TCG	CCTCTTG	AAT-----
Ncrh	AAACA	TCG	CCTCTTG	AATA-----
Agca	AAACA	TCG	CCTCTTG	CAATCA-----
Hydy	AAACA	TCG	CCTCTTG	AAAC-----
Gsac	AAACA	TCG	CCTCTTG	TAT--TC-----
Pevo	AAACA	TCG	CCTCTTG	C-AG-A-----
Hiku	AAACA	CCG	CCTCTTG	CATA-AC-----
Inpa	AAACA	TCG	CCTCTTG	ACT-----
Auch	AAACA	CCG	CCTCTTG	CTGAT-----
Fico	AAACA	TCG	CCTCTTG	CTAAAAC-----
Macs	AAACA	TCG	CCTCTTG	C--AAAA-----
Moal	AAACA	TCA	CCTCCTG	CAAACTT-----
Syma	AAACA	TCG	CCTCTTG	CCCCCCC-C-----
Mafr	AAACA	TCG	CCTCTTG	CAAC--A-----
Dcpe	AAACA	TCG	CCTCTTG	C-AAAT-----
Dcti	AAACA	TCG	CCTCTTG	CAAAAT-----
Hehi	AAACA	TCG	CCTCTTG	CAAA-----
Stam	AAACA	TCG	CCTCTTG	CAAAAAT-----
Hogi	AAACA	TCG	CCTCTTG	T--AAC-----
Erzo	AAACA	TCG	CCTCTTG	CAAAC-T-----
Hxot	AAACA	TCG	CCTCTTG	CAAAC-T-----
Core	AAACA	TCG	CCTCTTG	TATCAT-----
Apve	AAACA	TCG	CCTCTTG	CAAACCC-----
Latj	AAACA	TCG	CCTCTTG	TACAACC-----
Laja	AAACA	TCG	CCTCTTG	CAAAAC-----

Syja	AAACA	TCG	CCTCTTG	CAAAAA	-----
Epme	AAACA	CCG	CCTCTTG	-TAAAC	-----
Grse	AAACA	TCG	CCTCTTG	CGACAA	-----
Clja	AAACA	CCG	CCTCTTG	CAA-AT	-----
Ogcy	AAACA	TCG	CCTCTTG	TCCAC	-----
Plna	AAACA	TCG	CCTCTTG	CTT-TAC	-----
Lema	AAACA	TCG	CCTCTTG	CTGAAA	-----
Etzo	AAACA	TCG	CCTCTTG	TAAGAC	-----
Apse	AAACA	TCG	CCTCTTG	C--AA	-----
Epde	AAACA	TCG	CCTCTTG	CAAA-AC	-----
Slja	AAACA	TCG	CCTCTTG	C--A-AA	-----
Bsja	AAACA	TCG	CCTCTTG	C-AAAAT	-----
Ecna	AAACA	TCG	CCTCTTG	CAAAAAT	-----
Cohi	AAACA	TCG	CCTCTTG	C-AAAAATA	-----
Caar	AAACA	TCG	CCTCTTG	CAAA-A	-----
Came	AAACA	TCG	CCTCTTG	CAAAACC	-----
Mema	AAACA	TCG	CCTCTTG	C-AAT-A	-----
Lenu	AAACA	TCG	CCTCTTG	C-TA--A	-----
Brja	AAACA	TCG	CCTCTTG	CCA--G	-----
Plma	AAACA	TCG	CCTCTTG	CAATG-C	-----
Emst	AAACA	TCG	CCTCTTG	C-AAAA	-----
Ptti	AAACA	TCG	CCTCTTG	CAAAAT	-----
Losu	AAACA	TCG	CCTCTTG	TAAGCAA	-----
Geoy	AAACA	TCG	CCTCTTG	CA--A	-----
Dipi	AAACA	TCG	CCTCTTG	CAAAAA	-----
Pama	AAACA	TCG	CCTCTTG	C-AATAA	-----
Leob	AAACA	TCG	CCTCTTG	C-AAAAT	-----
Neba	AAACA	TCG	CCTCTTG	CAAA	-----
Pdpl	AAACA	TCG	CCTCTTG	C-TA	-----
Nimi	AAACA	TCG	CCTCTTG	CAATCA	-----
Uptr	AAACA	TCG	CCTCTTG	C-A--A	-----
Pesc	AAACA	TCG	CCTCTTG	CAAA-A	-----
Baar	AAACA	CCG	CCTTTTG	CAAAT-CCA	-----
Moar	AAACA	TCG	CCTCTTG	CAAAAT	-----
Toja	AAACA	TCG	CCTCTTG	TAAAC	-----
Chau	AAACA	CCG	CCTCTTG	C--AAAA	-----
Chse	AAACA	TCG	CCTCTTG	C--AAA	-----
Enar	AAACA	TCG	CCTCTTG	CAAAAT	-----
Hpty	AAACA	TCG	CCTCTTG	CAAA-A	-----
Nana	AAACA	CCG	CCTCTTG	CAAAC	-----
Mcst	AAACA	TCG	CCTCTTG	C-AAAA	-----
Rhox	AAACA	TCG	CCTCTTG	C-AAAGC	-----
Opfa	AAACA	TCG	CCTCTTG	C-AAA-A	-----
Paar	AAACA	CCG	CCTCTTG	CA--A	-----
Gozo	AAACA	TCG	CCTCTTG	C--AAAA	-----
Ackr	AAACA	TCG	CCTCTTG	CAAAAT	-----
Elev	AAACA	TCG	CCTCTTG	AACCC	-----
Trdu	AAACA	TCG	CCTCTTG	AACC	-----
Amoc	AAACA	TCG	CCTCTTG	A--AAAA	-----
Hame	AAACA	TCG	CCTCTTG	C-AAAAT	-----
Chso	AAACA	TCG	CCTCTTG	C-AAAAT	-----
Lyto	AAACA	TCG	CCTCTTG	CAA	-----

Encr	AAACA	TCG	CCTCTTG	CAA	ACT	-----
Bvar	AAACA	TCG	CCTCTTG	TAA	ATA	-----
Noco	AAACA	TCG	CCTCTTG	C	--AA	-----
Chsp	AAACA	TCG	CCTCTTG	TAC	CCC	-----
Arja	AAACA	TCG	CCTCTTG	TAG	AAC	-----
Pase	AAACA	CCG	CCTCTTG	C	-AAA-A	-----
Trel	AAACA	TCG	CCTCTTG	CCC	A	-CC-----
Lifa	AAACA	TCG	CCTCCTG	C	-AATAC	-----
Acur	AAACA	CCG	CCTCTTG	AAT		-----
Ampe	AAACA	TCG	CCTCTTG	CAAA		-----
Urja	AAACA	CCG	CCTCTTG	T	--AA	-----
Enet	AAACA	TCG	CCTCTTG	CATT	TCT	-----
Ptbr	AAACA	TCG	CCTCCTG	AA	--T	-----
Safa	AAACA	TCG	CCTCCTG	GACT	--T	-----
Icae	AAACA	TCG	CCTCTTG	CAAA	AAG	-----
Asmi	AAACA	CCG	CCTCCTG	C	--ACT	-----
Foal	AAACA	TCG	CCTCTTG	TACT		-----
Drze	AAACA	TCG	CCTCTTG	C	-AAAT	-----
Rhas	AAACA	TCG	CCTCTTG	CAAC	AA	-----
Elac	AAACA	TCG	CCTCTTG	AACC	CT	-----
Kugu	AAACA	CCG	CCTCTTG	CCCC	AAA	-----
Plor	AAACA	TCG	CCTCTTG	CT	-AAA	-----
Sgun	AAACA	TCG	CCTCTTG	CAAAA		-----
Zaco	AAACA	TCG	CCTCTTG	CAAAA		-----
Zbfl	AAACA	TCG	CCTCTTG	CAAAA	A	-----
Spba	AAACA	TCG	CCTCTTG	A		-----
Game	AAACA	TCG	CCTCTTG	C	--AAAA	-----
Thth	AAACA	TCG	CCTCTTG	CAAAA		-----
Xigl	AAACA	TCG	CCTCTTG	CAAA	-AC	-----
Hyja	AAACA	TCG	CCTCTTG	C	-AAAAATA	-----
Psan	AAACA	TCG	CCTCTTG	C	-AAAA	-----
Cupa	AAACA	TCG	CCTCTTG	C	-AAAA	-----
Mpch	AAACA	TCG	CCTCTTG	CAAAA	A	-----
Char	AAACA	TCG	CCTCTTG	T	-AAT--TT	-----
Pser	AAACA	TCG	CCTCTTG	CTAA		-----
Prol	AAACA	TCG	CCTCTTG	CAAG	AC	-----
Plbi	AAACA	TCG	CCTCTTG	CATA	A	-----
Calu	AAACA	TCG	CCTCTTG	CTAA	ACTA	-----
Papa	AAACA	TCG	CCTCTTG	C	-TTAT	-----
Sufr	AAACA	TCG	CCTCTTG	CGAA		-----
Stci	AAACA	TCG	CCTCTTG	A	-AATC	-----
Taru	AAACA	TCG	CCTCTTG	CTT	-CA	-----
Rala	AAACA	TCG	CCTCTTG	CAAA	-A	-----

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	HVR	35'	36	37			
Scca	-----CC-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Muma	-----TT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Erca	-----CACAT-----	A	TTGAAGG	TCCT	GCC	TGCC	CAGTGAC
Pose	-----CC--ATGT-----	A	TTGAAGG	TCCT	GCC	TGCC	CAGTGAC
Actr	-----CCA-ATGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Scal	-----AAT---GT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Posp	-----T---GT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Atsp	-----AAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Leoc	-----CCN-AAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Amca	-----CC--AAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CAGTGAA
Osbi	-----AAAA-----	A	TAAGAGG	TCCA	ACC	TGCC	CAGTGAC
Pabu	-----CAA---AC-----	A	TAAGAGG	TCCA	GCC	TGCC	CAGTGAC
Hial	-----CCA-AAGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CAGTGAC
Elha	-----CA-AAAT-----	A	TAAGAGG	TCCC	GCC	TGCC	CCGTGAC
Mlcy	-----TCA-AAGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CCGTGAC
Algl	-----ACA-AAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAA
Ptgi	-----AACGAAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Alaf	-----AG-AAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CAGTGAC
Nock	-----AAG-AAGT-----	A	TTAGAGG	TACC	GCC	TGCC	CAGTGAC
Anja	-----AGGAAG-----	T	CTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Gyki	-----ATG-AAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Syka	-----ATG-AAGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Opma	-----AGA-ATGT-----	A	TTAGAGG	TCCC	GCC	TGCC	CTGTGAC
Comy	-----GA--ATGT-----	A	TTGGAGG	TCCT	GCC	TGCC	CAGTGAC
Sasp	-----TAATGT-----	A	TAAGAGG	TCTT	GCC	TGCC	CAGTGAC
Eupe	-----A-AAGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CAGTGAC
Enja	-----T-CCAAAGT-----	A	TAAGAGG	TCCC	ACC	TGCC	CTGTGAC
Same	-----CA--ATT-----	A	TAGGAGG	TCCC	GCC	TGCC	CTGTGAC
Chch	-----TCG-ACGT-----	A	TAGAAGG	TCCT	GCC	TGCC	CAGTGAC
Grgr	-----TCG-ATGT-----	A	TAGGAGG	TCCC	GCC	TGCC	CAATGAC
Caau	-----ACC-AAGT-----	A	TAGGAGG	TCCA	GCC	TGCC	CAGTGAC
Cyca	-----CAACCAAGT-----	A	TAGGAGG	TCCA	GCC	TGCC	CAGTGAC
Dare	-----C-C-CAAT-----	A	TAGGAGG	TCCA	GCC	TGCC	CAGTGAC
Cost	-----ATTCAAGGT-----	A	TAGGAGG	TCCA	GCC	TGCC	CAGTGAC
Leec	-----CCA-ATGT-----	A	TAGGAGG	TCCA	GCC	TGCC	CCGTGAC
CrIa	-----ACG-AAGT-----	A	TAGGAGG	TCCA	GCC	TGCC	CAGTGAC
Clmc	-----CCA-ATAT-----	A	TGGGAGG	TCTT	ACC	TGCC	CAGTGAC
Phin	-----CAACGT-----	A	TAGGAGG	TCTT	ACC	TGCC	CAGTGAC
Icpu	-----TCA-ACGT-----	A	TAGGAGG	TCTT	GCC	TGCC	CAGTGAC
Psto	-----TCA-ACGT-----	A	TAGGAGG	TCTT	GCC	TGCC	CAGTGAC
Cora	-----CA-ATGT-----	A	TAGGAGG	TCCT	GCC	TGCC	CAGTGAC
Eisp	-----ATCA-ACAT-----	A	TAGGAGG	TCCT	GCC	TGCC	CAGTGAA
Apal	-----C--AATAC-----	A	TAGGAGG	TCCC	GCC	TGCC	CTGTGAC
EsIu	-----CCC-AAAC-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Dape	-----TAA-AC-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Glse	-----AAGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Naar	-----T-T-TAAT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Baoc	-----AAAC-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Opso	-----AATTAAGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Alte	-----A-AAC-----	A	TAGGAGG	TCCC	GCC	TGCC	CTGTGAC
Plap	-----CAA---AAC-----	A	TAGGAGG	TCCC	GCC	TGCC	CTGTGAC

Plal	-----CACGC-----	A	TAAGAGG	TCCC	GCC	T	GCC	CG	GTGAC
Sami	-----CT--ATGC-----	A	TAAGAAG	TCCC	GCC	T	GCC	CG	GTGAC
Rere	-----TTT-TAC-----	A	TAAGATG	TCCC	GCC	T	GCC	CG	GAGCC
Gama	-----TTAACCT-----	A	TAAGAGG	TCCT	GCC	T	GCC	CT	GTGAC
Onmy	-----C-AAA-----	A	CATAGAG	GTCC	GCC	T	GCC	CT	GTGAC
Sasa	-----AAAC-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Cola	-----CA-AAGC-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Dita	-----CC--ATGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Gogr	-----T---AAC-----	A	TAAGAGG	TCCT	GCC	T	GCC	CT	GTGAC
Chsl	GGCCGCGGTATAATAACCGTGCTAAGGTACCTCA	A	TAAGAGG	TCCT	GCC	T	GCC	CA	GTGAC
Atja	-----A-----GA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Iido	-----C---AAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Auja	-----A-AAAA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Chag	-----AAAG-----	A	TAAGAGG	TCCC	GCC	T	GCC	CA	GTGAC
Hami	-----TCA-AAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Saun	-----AAAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Nema	-----CGAAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Disp	-----G-A-ACAA-----	A	TAAGAGG	TCCT	GCC	T	GCC	CA	GTGAC
Myaf	-----A-ACGA-----	A	TAAGAGG	TCCA	GCC	T	GCC	CA	GTGAC
Lagu	-----TTT-GAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CG	GTGAC
Trtr	-----TTA-ATGA-----	A	TAAGAGG	CCAC	GCC	T	GCC	CG	GTGAC
Zucr	-----ATA-TTGT-----	A	TAAGAGG	CCAC	GCC	T	GCC	CG	GTGAC
Pxja	-----TAA-AA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Pxlo	-----TATTA AAA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Pctr	-----C--CAAA-----	A	TGAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Apsa	-----AAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Cabe	-----ATGAA-----	A	TGGGAGG	TCCC	GCC	T	GCC	CG	GTGAC
Bzze	-----CTA-AAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Siim	-----CCA-AAGA-----	A	TAAGAGG	TCCG	ACC	T	GCC	CA	GTGAC
Ctru	-----A-AAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Dpbr	-----CTA-AAGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Caki	-----A-CTAT-----	A	TAAGAGG	TCTC	GCC	T	GCC	CA	GTGAC
Phja	-----CAA-A-GT-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Brsp	-----TATC-----	A	TGAGAGG	TCCT	GCC	T	GCC	CA	GTGAC
Gamo	-----AA-AAAT-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Lolo	-----CCTAAAAAT-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Batr	-----AT-----	A	TAAGAAG	TCCT	GCC	T	GCC	CA	GTGAC
Prmy	-----CCTT-----	A	TAAGAAG	TCCC	GTC	T	GCC	CT	GTGAT
Loli	-----CAA-----	A	TAAGAGG	TCCT	GCC	T	GCC	CT	GTGAC
Loam	-----AAT---AA-----	A	TAAGAGG	TCCT	GCC	T	GCC	CT	GTGAC
Chab	-----ACGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CA	GTGAC
Chto	-----A-ACGA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CA	GTGAC
Majo	-----CTA-A-GA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Hlst	-----T--AAAT-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Clpe	-----C-----GA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Mlmr	-----T-A-ATGA-----	A	TAAGAGG	CCCC	GCC	T	GCC	CT	GTGAC
Crcr	-----CCAC-----	A	TAAGAGG	TCCT	GCC	T	GCC	CA	GTGAC
Muce	-----ACCTCAC-----	A	TAAGAGG	TCCT	GCC	T	GCC	CA	GTGAC
Bege	-----CCA-AAAA-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Mela	-----AAAT-----	A	TAAGAGG	TCCC	GCC	T	GCC	CT	GTGAC
Hats	-----C--AAGA-----	A	TAAGAGG	TCTC	GCC	T	GCC	CT	GTGAC
Orla	-----A--T-GAA-----	A	TAAGAGG	TACC	GCC	T	GCC	CT	GTGAC

Cosa	-----AA--ACGA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Exsp	-----AAGT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Depa	-----AAGT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Rima	-----AAC-----A	TAAGAGG	TCCT	GCC	TGCC	CACTGAC
Fuol	-----CTAC-----A	TAAGAGG	TCCT	GCC	TGCC	CTGTGAT
Gmaf	-----ACC-CCTA-----A	TAAAAGG	TCCT	GCC	TGCC	CTGTGAA
Xeei	-----C----TAT-----A	TAAGAGG	TCCT	GCC	TGCC	CCGTGAC
Pros	-----A-AAAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Scmi	-----A-A-AT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Rolo	-----TTA-AC-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Cere	-----TAA-AA-----A	TAAGAGG	TCCC	ACC	TGCC	CTGTGAC
Daga	-----T--AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Anco	-----ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Dmve	-----TGT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Dmar	-----A--ACAT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Anka	-----T-A-ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Moja	-----GCA-ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Hoja	-----ACA-ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Bede	-----AAGCAAAAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Besp	-----AA--A-AT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Mysp	-----CA--AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CCGTGAC
Osja	-----AAACAAAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Sgro	-----CA-AAGC-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Pzpa	-----GTAT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Zeja	-----A-AAC-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Znne	-----AAA-AAAC-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Zefa	-----AA--AT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Acni	-----AAT-AAAT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Ncrh	-----ATA-A-AT-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Agca	-----ATAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Hydy	-----CTA-CTA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Gsac	-----A-ATAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Pevo	-----ATC-GAAA-----A	TAAGAGG	TCCA	GCC	TGCC	CTGTGAC
Hiku	-----ACA-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Inpa	-----CCC-GCCC-----A	TAAGAGG	TCCC	GCC	TGCC	CCGTGAC
Auch	-----AATTGAAGA-----A	TAAGAGG	TCGA	GCC	TGCC	CACTGAC
Fico	-----CG--AAGA-----A	TAAGAGG	TAAT	GCC	TGCC	CTGTGAC
Macs	-----TTA-AGGA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Moal	-----TAT-GTAT-----A	TAGGAGG	CATT	GCC	TGCC	CACTGAC
Syma	-----CAAT-----A	TAAGAGG	TCCC	ACC	TGCC	CCCTGAC
Mafr	-----T--GACAT-----A	TAAGAGG	TCCC	GCC	TGCC	CCGTGAC
Dcpe	-----TTA-AAGA-----A	TAAGAGG	TCCT	GCC	TGCC	CTGTGAC
Dcti	-----TAA-A-GA-----A	TAAGAGG	TCCT	GCC	TGCC	CTGTGAC
Hehi	-----G-CTAAAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Stam	-----AACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Hogi	-----CAC-CAAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Erzo	-----TA-AGAA-----A	TAAGAGG	TCCT	GCC	TGCC	CTGTGAC
Hxot	-----CA-AAAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Core	-----TAA-AA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Apve	-----AAAA-----A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Latj	-----CAC-ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CACTGAC
Laja	-----T-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CCGTGAC

Syja	-----T-A-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CA	GTGAC
Epme	-----CGA-AAGT-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Grse	-----CAAC-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Clja	-----TAA-T-GT-----A	TAAGAGG	TCCC	GCC	TGCC	CG	GTGAC
Ogcy	-----C-AAAA-----A	TAAGAGG	TACT	GCC	TGCC	CC	GTGAC
Plna	-----T---AAC-----A	TAAGAGG	TCTC	GCC	TGCC	CA	GTGAC
Lema	-----ACC-AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Etzo	-----TTA-A-AA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Apse	-----TCT-AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CG	GTGAC
Epde	-----TAAAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Slja	-----TCA-ATAA-----A	TAAGAGG	TCCT	GCC	TGCC	CA	GTGAC
Bsja	-----TA--ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Ecna	-----CA--AAGA-----A	TAAGAGG	TCCG	GCC	TGCC	CA	GTGAC
Cohi	-----AAGA-----A	TAAGAGG	TCCC	ACC	TGCC	CG	GTGAC
Caar	-----CCA-AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CA	GTGAC
Came	-----AAAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CG	GTGAC
Mema	-----CCA-AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CA	GTGAC
Lenu	-----CCC-AGA-----A	TAAGAGG	TCCC	ACC	TGCC	CA	GTGAC
Brja	-----T--AGAAT-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Plma	-----AAAAT-----A	TAAGAGG	TCCA	GCC	TGCC	CT	GTGAC
Emst	-----CTA-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Ptti	-----CA--ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Losu	-----C----AA-----A	TAAGAGG	TCCC	ACC	TGCC	CA	GTGAC
Geoy	-----ACAACGA-----A	TAAGAGG	TCCC	GCC	TGCC	CA	TTGAC
Dipi	-----CAATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CC	GTGAC
Pama	-----TCG-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Leob	-----CA--ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Neba	-----TT-ACGA-----A	TAAGAGG	TCCC	GCC	TGCC	CG	GTGAC
Pdpl	-----CAC-AAGA-----A	TAAGAGG	TCCT	GCC	TGCC	CA	GTGAC
Nimi	-----ACGA-----A	TAAGAGG	TCCA	GCC	TGCC	CA	ATGAC
Uptr	-----ACT-AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Pesc	-----GCA-ACAA-----A	TAAGAGG	TCCT	GCC	TGCC	CC	GTGAC
Baar	-----ACGA-----A	TAAGAGG	TCTC	ACC	TGCC	CA	CTGAC
Moar	-----TA-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Toja	-----CT-AAAA-----A	TAAGAGG	TCCT	GCC	TGCC	CA	ATGAC
Chau	-----TTA-ACGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Chse	-----TTA-ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Enar	-----T-A-ATAA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Hpty	-----CTA-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Nana	-----AAAAA-----A	TAAGAGG	TCTT	GCC	TGCC	CT	GTGAC
Mcst	-----TTA-ATGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Rhox	-----CA--AAGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Opfa	-----CTG-AGGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Paar	-----AAACAAAAT-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Gozo	-----CA-ACAT-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAT
Ackr	-----C-A-ACGA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Elev	-----CTAAAA-----A	TAAGAGG	TCCC	GCC	TGCC	CA	GTGAC
Trdu	-----CCT-AAGT-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Amoc	-----AC-AGT-----A	TAAGAGG	TCCC	GCC	TGCC	CA	GTGAC
Hame	-----CA--ACGA-----A	TAAGAGG	TCCC	GCC	TGCC	CA	GTGAC
Chso	-----CA--ACAA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC
Lyto	-----ACTTAATAA-----A	TAAGAGG	TCCC	GCC	TGCC	CT	GTGAC

Encr	-----TA--ATAA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Bvar	-----AA-TTAA-----	A	TAAGAGG	TCCC	GCC	TGCC	CGGTGAC
Noco	-----ATA-ATGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Chsp	-----TAC-AAAT-----	A	TAAGAGG	TCCT	GCC	TGCC	CGGTGAC
Arja	-----TC--AAAA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Pase	-----TCA-ATGA-----	A	TAAGAGG	TCAT	GCC	TGCC	CTGTGAC
Trel	-----CC----TG-----	A	TAAGAGG	TCCA	GCC	TGCC	CTGTGAC
Lifa	-----CT--T-GT-----	A	TAGGAGG	TCAT	GCC	TGCC	CGGTGAC
Acur	-----TT-GAA-----	A	TAAGAGG	TCCA	GCC	TGCC	CAGTGAC
Ampe	-----GTA-ATGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Urja	-----CCA-ATAA-----	A	TAAGAGG	TCCC	ACC	TGCC	CACTGAC
Enet	-----A--GT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Ptbr	-----A--CTAATA-----	A	TAGGAGG	TCCC	GCC	TGCC	CGGTGAT
Safa	-----ACA--AAT-----	A	TAGGAGG	TCCC	GCC	TGCC	CTGTGAT
Icae	-----C-A-AAGA-----	A	TAAGAGG	TCCA	GCC	TGCC	CTGTGAC
Asmi	-----CAA-CAGT-----	A	TAGGAGG	TCCT	GCC	TGCC	CAGTGAC
Foal	-----AAAA-----	A	TAAGAGG	TCCC	GCC	TGCC	CAGTGAC
Drze	-----T-T-AAGA-----	A	TAAGAGG	TCAC	GCC	TGCC	CGGTGAC
Rhas	-----CAC-A-AT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Elac	-----CAA-TACT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Kugu	-----AAGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Plor	-----CCC-ACAA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Sgun	-----TTAATGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Zaco	-----GC-A-ACGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Zbfl	-----C-A-ACGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Spba	-----AAACCCAGT-----	A	TAAGAGG	TCTC	GCC	TGCC	CAGTGAC
Game	-----ATA-ACGA-----	A	TAAGAGG	TCCA	GCC	TGCC	CTGTGAC
Thth	-----ACAA-AGA-----	A	TAAGAGG	TCCA	GCC	TGCC	CTGTGAC
Xigl	-----CAAAGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CAGTGAC
Hyja	-----AAGA-----	A	TAAGAGG	TCCA	GCC	TGCC	CTGTGAC
Psan	-----ACA-AAGA-----	A	TAAGAGG	TCTA	GCC	TGCC	CTGTGAC
Cupa	-----CGT-AAGA-----	A	TAAGAGG	TCCA	GCC	TGCC	CTGTGAC
Mpch	-----CTA-AGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Char	-----AAAA-----	A	TAAGAGG	TCCC	GCC	TGCC	CAGTGAC
Pser	-----CC--AAAA-----	A	TAAGAGG	TCCA	ACC	TGCC	CAGTGAC
Prol	-----A-C-AAGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CAGTGAC
Plbi	-----CCA-CAGT-----	A	TAAGAGG	TCCC	GCC	TGCC	CAGTGAC
Calu	-----CTTGTAGA-----	A	TAAGAGG	TCTA	GCC	TGCC	CAGTGAC
Papa	-----G--AT-----	A	TAAGAGG	TCCT	GCC	TGCC	CAATGAC
Sufr	-----TCA-AAGA-----	A	TAGGAGG	TCCA	GCC	TGCC	CTGTGAC
Stci	-----C--CCAC-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC
Taru	-----ATGA-----	A	TAAGAGG	TCAC	GCC	TGCC	CTGTGAC
Rala	-----CTA-ATGA-----	A	TAAGAGG	TCCC	GCC	TGCC	CTGTGAC

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		37'	38	38'	39	
Scca	--AAT-----	GTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Muma	AAT-----	GTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Erca	TAAA-----	GTTTAAC	GGC	CGCGGT	ATC-TTGACCGTC	CAAAAGGTAG
Pose	--ATGA-----	GTTTAAC	GGC	CGCGGT	ATC-CTGACCGTC	CAAAAGGTAG
Actr	CAAAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Scal	--CAAAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Posp	CAA-AA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Atsp	T---TA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Leoc	T-----T-A	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Amca	--AAAT-----	TTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Osbi	TTCAAAA-----	GTTAAAC	GGC	CGCGGT	ATT-TTAACCGTC	CTAAAGGTAG
Pabu	ATATA-----	GTTAAAC	GGC	CGCAGT	ATT-TTAACCGCC	CTAAAGGTAG
Hial	--TCTGA-----	GTTAAAT	GGC	CGCGGT	ATT-TTAACCGTC	CAAAAGGTAG
Elha	CCAAAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Mlcy	-TAACAA-----	GTTCAAC	GGC	CGCGGT	ATT-CTGACCGTC	CGAAAGGTAG
Algl	GTAAAA-----	ATTTAAC	GGC	CGCGGT	ATT-CTGACCGTC	CAAAAGGTAG
Ptgi	CAAGA-----	GTTTAAC	GGC	CGCGGT	ATT-CTGACCGTC	CGAAAGGTAG
Alaf	A-TATAA-----	GTTAAAC	GGC	CGCGGT	ATT-CTGACCGTC	CTAAAGGTAG
Nock	A-AAAA-----	GTTAAAC	GGC	CGCGGT	ATT-CTGACCGTC	CTAAAGGTAG
Anja	CACAAA-----	GTTTAAC	GGC	CGCGGT	ATC-CTGACCGTC	CGAAAGGTAG
Gyki	-AGCAGT-----	GTTTAAC	GGC	CGCGGT	ATT-CTAACCGCC	CGAAAGGTAG
Syka	CAAAGT-----	GTTTAAC	GGC	CGCGGT	ATC-CTGACCGTC	CGAAAGGTAG
Opma	C-AATGT-----	GTTTAAC	GGC	CGCGGT	ATC-ATAACCGTC	CGAAAGGTAG
Comy	AA-TAG-----	GTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Sasp	CCGA-----	TTTCAAC	GGC	CGCGGT	ATT-ATGACCGTC	CAAAAGGTAG
Eupe	C--CG-----	TTTCAAC	GGC	CGCGGT	ATT-ATGACCGTC	CTAAAGGTAG
Enja	TCTAA-----	GTTTAAC	GGC	CGCGGT	ATT-CTAACCGTC	CGAAAGGTAG
Same	CAA-----	TTTCAAC	GGC	CGCGGT	ATT-TTAACCGTC	CGAAAGGTAG
Chch	TATA-G-----	GTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Grgr	TAT-----	GTTCAAT	GGC	CGCGGT	ATT-TTGACCGTC	CTAAAGGTAG
Caau	T-ACAA-----	GTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Cyca	TACAA-----	GTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Dare	-A--ATA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Cost	CACAA-----	GTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Leec	T-ACAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
CrIa	C-TACAA-----	GTTCAAC	GGC	CGCTGT	ATT-TTGACCGTC	CAAAAGGTAG
Clmc	A-ACTA-----	GTTAAAC	GGC	CGCGGT	ATT-TTGACCGTC	CTAAAGGTAG
Phin	ATTCGT-----	GTTAAAC	GGC	CGCGGT	ATT-TTGACCGTC	CTAAAGGTAG
Icpu	-----AT-----	GTTAAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Psto	---AA-----	GTTAAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Cora	T--AT-----	GTTGAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Eisp	---A-----	TTTCAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
Apal	TCT-GT-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CAAAAGGTAG
EsLu	--TATAC-----	GTTTAAC	GGC	CGCGGT	ATT-TTAACCGTC	CGAAAGGTAG
Dape	TATGG-----	GTTTAAC	GGC	CGCGGT	ATT-TTAACCGTC	CGAAAGGTAG
Glse	C---TTG-----	GTTTAAC	GGC	CGCGGT	ATT-CTGACCGTC	CGAAAGGTAG
Naar	--TCTAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Baoc	T--ATAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Opso	CCTGG-----	GTTTAAC	GGC	CGCGGT	ATC-TTGACCGTC	CGAAAGGTAG
Alte	--TCTAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG
Plap	TTTAA-----	GTTTAAC	GGC	CGCGGT	ATT-TTGACCGTC	CGAAAGGTAG

Plal	CCTGG-----	GTTAAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CGAAC	GTAG
Sami	CCCTGG-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Rere	-T-CTGG-----	GTTAAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CGAAC	GTAG
Gama	TATGA-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CAAAC	GTAG
Onmy	TATGG-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Sasa	T---ATG-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Cola	T--ATGG-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Dita	C-ACAA-----	GTTAAAC	GGC	CGCGGT	ATA-TTG	ACCGTC	CAAAC	GTAG
Gogr	CAC--GT-----	GTTAAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CAAAC	GTAG
Chsl	AATT-----	GTTAAAC	GGC	CGCGGT	ATA-ATA	ACCGTC	CTAAC	GTAG
Atja	--AATT-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CAAAC	GTAG
Iido	AATTA-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CAAAC	GTAG
Auja	--CTAAG-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Chag	TTGTAT-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Hami	TCGAG-----	GTTAAAC	GGC	CGCGGT	ATC-TTG	ACCGTC	CGAAC	GTAG
Saun	TTAAGA-----	GTTAAAC	GGC	CGCGGT	ATC-TTG	ACCGTC	CGAAC	GTAG
Nema	TATAT-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Disp	--TATAT-----	GTTAAAC	GGC	CGCGGT	ATT-CTG	ACCGTC	CGAAC	GTAG
Myaf	T--ATAC-----	GTTAAAC	GGC	CGCGGT	ATC-TTG	ACCGTC	CAAAC	GTAG
Lagu	AAT--A-----	GTTAAAC	GGC	CGCGGT	ATT-CTG	ACCGTC	CGAAC	GTAG
Trtr	C-----AAAA	GTTAAAC	GGC	CGCGGT	ATT-ATG	ACCGTC	CAAAC	GTAG
Zucr	-TAGAA-----	GTTAAAC	GGC	CGCGGT	ATT-ATG	ACCGTC	CAAAC	GTAG
Pxja	T-----CTAT	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Pxlo	TCTAT-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Pctr	AA--AT-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Apsa	AT-CTA-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Cabe	-----TATAC	GTTAAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CAAAC	GTAG
Bzze	TA-----TAA	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Siim	T-----ATAT	GTTAAAC	GGC	CGCGGT	ATT-CTG	ACCGTC	CGAAC	GTAG
Ctru	--AATAC-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Dpbr	AATAT-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Caki	--TAAAT-----	GTTAAAC	GGC	CGTGGT	ATC-TTA	ACCATC	CGAAC	GTAG
Phja	-GA--AA-----	GTTAAAC	GGC	CGCGGT	ATT-CTA	ACCGTC	CGAAC	GTAG
Brsp	TATAT-----	GTTAAAC	GGC	CGTGGT	ATC-TTA	ACCATC	CTAAC	GTAG
Gamo	T--ATAA-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Lolo	TATAA-----	GTTAAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CGAAC	GTAG
Batr	--CCA-----	GTTCAAC	GGC	TGCAGT	ATC-ATG	ACTGTA	CTAAC	GTAG
Prmy	-ATA-----	ATTAAAC	GGC	TGCAGT	AAC-ACA	ACTGCA	CAAAC	GTAG
Loli	-ACATA-----	GTTAAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CGAAC	GTAG
Loam	AATTA-----	GTTCAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Chab	-T-ACAA-----	GTTCAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Chto	TAC--AA-----	GTTCAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Majo	TCTAAGA-----	GTTAAAC	GGC	TGCGGT	ATT-TTG	ACCGTC	CAAAC	GTAG
Hlst	TGTTTAA-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CAAAC	GTAG
Clpe	TAT-TA-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CGAAC	GTAG
Mlmr	TAATTTA-----	GTTAAAC	GGC	CGCGGT	ATC-ATG	ACCGTC	CAAAC	GTAG
Crcr	C---CC-----	GTTCAAC	GGC	CGCGGT	ATT-TTA	ACCGCC	CAAAC	GTAG
Muce	CCCT-----	GTTCAAC	GGC	CGCGGT	ATT-TTA	ACCGCC	CAAAC	GTAG
Bege	TATAT-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CAAAC	GTAG
Mela	T---ATA-----	GTTAAAC	GGC	CGCGGT	ATC-TTG	ACCGTC	CGAAC	GTAG
Hats	T-----ATAA	GTTAAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CGAAC	GTAG
Orla	--TAAAA-----	GTTAAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CAAAC	GTAG

Cosa	TC-TA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Exsp	A-AAAA-----	GTTTAAC	-GGC	-CGCGGT	ATC-TTG	ACCGTC	CG	AAG	GTAG
Depa	-ACCA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Rima	-ACA-AT-----	GTTC AAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	TG	AAG	GTAG
Fuol	---AAT-----	ATTTAAC	-GGC	-CGCGGT	ATC-TTG	ACCGTC	CA	AAG	GTAG
Gmaf	TTAA-A-----	TTTTAAC	-GGC	-CGCGGT	ATC-TTG	ACCGTC	CA	AAG	GTAG
Xeei	TTTATA-----	GTTTAAC	-GGC	-CGCGGT	ATC-TTG	ACCGTC	CA	AAG	GTAG
Pros	TAT--GT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Scmi	T-ATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Rolo	--TATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Cere	ATATGTTTAACTGTGACATAT	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Daga	---ATCT-----	GTTTAAC	-GGC	-CGCGGT	ATT-CTG	ACCGTC	CA	AAG	GTAG
Anco	T---ATA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Dmve	TA-ATT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Dmar	AATT-----	GTTC AAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Anka	T-ATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Moja	TATA-T-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Hoja	TATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Bede	TATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Besp	TA-TAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Mysp	T-ATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Osja	TATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Sgro	-T-ATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Pzpa	T-TTAA-----	GTTTAAC	-GGC	-CGCGGT	ATC-TTG	ACCGTC	CG	AAG	GTAG
Zeja	--TTTTAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Zzne	-TTAAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Zefa	TT-AAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Acni	T-TTAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Ncrh	TTTTAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Agca	--TAAAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Hydy	T-ATA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Gsac	--TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Pevo	CAAA-AT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Hiku	CATG-A-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Inpa	--AAT-----	ATTTAAC	-GGC	-CGCGGT	ATT-CTA	ACCGTC	CA	AAG	GTAG
Auch	TATAT-----	GTTC AAC	-GGC	-CACGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Fico	CC-TAG-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
MacS	TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Moal	---ACAT-----	GTTTAAC	-GGC	-CGCGGT	ATC-CTA	ACCGTC	CA	AAG	GTAG
Syma	T---ATA-----	GTTC AAC	-GGC	-CACGGT	ATC-CTA	ACCGTC	CA	AAG	GTAG
Mafr	ACCCAA-----	GTTC AAC	-GGC	-CGCGGT	ATC-CTG	ACCGTC	CA	AAG	GTAG
Dcpe	TAT--AA-----	GTTTAAC	-GGC	-CGCGGT	ATA-ATG	ACCGTC	CG	AAG	GTAG
Dcti	--TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-ATG	ACCGTC	CG	AAG	GTAG
Hehi	TATTA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Stam	T-ATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Hogi	T-ATTA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Erzo	C--ATGA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Hxot	T--ATTT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Core	TAT--TT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Apve	TATTAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Latj	AACTG-----	GTTC AAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Laja	--TATAA-----	GTTC AAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG

Syja	T-ATAT-----	GTTCAAC	-GGC	-CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Epme	TATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Grse	T---ATA-----	AGTTTAAC	-GGC	-CGCGGT	ATT-CTG	ACCGTC	CG	AAG	GTAG
Clja	TAT--AT-----	GTTTAAC	-GGC	-CGCGGA	ACC-CTG	ACCGTC	CG	AAG	GTAG
Ogcy	-CCT-GA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Plna	TCATGA-----	GTTCAAC	-GGC	-CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Lema	-T-ATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Etzo	TAT--AT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Apse	--TAT-T-----	GTTTAAC	-GGC	-CGCGGT	ACT-CTG	ACCGTC	CG	AAG	GTAG
Epde	TATA-A-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Slja	CCTAGT-----	GTTCAAC	-GGC	-CGCGGT	ATCACTA	ACCGCC	CG	AAG	GTAG
Bsja	TC-TAT-----	GTTTAAC	-GGC	-CGCGGT	ATA-CTG	ACCGTC	CG	AAG	GTAG
Ecna	AATTA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CT	AAG	GTAG
Cohi	A---CC-----	AGTTTAAC	-GGC	-CGCGGT	ATC-CTG	ACCGTC	CG	AAG	GTAG
Caar	AATATG-----	GTTCAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Came	T-ATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Mema	TGA-----	TTGAGTTTAAC	-GGC	-CGCGGT	ATT-CTG	ACCGTC	CA	AAG	GTAG
Lenu	TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Brja	TAT-AT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTA	ACCGTC	CG	AAG	GTAG
Plma	T-ATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTA	ACCGTC	CG	AAG	GTAG
Emst	TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Ptti	T-GAAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Losu	TAT-AT-----	GTTCAAC	-GGC	-CGCAGT	ATT-TTA	ACCGCC	CG	AAG	GTAG
Geoy	TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Dipi	CAAAG-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Pama	T-----	ATAGTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Leob	TA-TAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Neba	T--ATAT-----	GTTAAAC	-GGC	-CGCGGT	ATA-CTG	ACCGTC	CC	AAG	GTAG
Pdpl	AACCCAA-----	GTTCAAC	-GGC	-CGCGGT	ATT-CTG	ACCGTC	CG	AAG	GTAG
Nimi	C---ATG-----	TGTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Uptr	TGTA-A-----	GTTTAAC	-GGC	-CGCGGT	ACT-CTG	ACCGTC	CG	AAG	GTAG
Pesc	-TATAT-----	GTTCAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Baar	T---ACA-----	TGTTTAAC	-GGC	-CGCGGT	ATT-CTA	ACCGTC	CG	AAG	GTAG
Moar	TA-TAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Toja	-ACACT-----	GTTCAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Chau	-TATA-----	TGTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Chse	T-ATAC-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Enar	T-ATTA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Hpty	-TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Nana	ATAAACT-----	GTTTAAC	-GGC	-CGCGGT	ATC-CTG	ACCGTC	CA	AAG	GTAG
Mcst	TATAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-CTG	ACCGTC	CG	AAG	GTAG
Rhox	TATA-T-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Opfa	T-----	ATAGTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Paar	TATAC-----	GTTTAAC	-GGC	-CGCGGT	ATC-CTG	ACCGTC	CA	AAG	GTAG
Gozo	-AATA-----	AGTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Ackr	TAT--AT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Elev	GATGA-----	GTTCAAC	-GGC	-CGCGGT	ATT-CTG	ACCGTC	CA	AAG	GTAG
Trdu	--TATAA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Amoc	AACATT-----	GTTTAAC	-GGC	-CGCGGT	ACT-TTG	ACCGTC	CG	AAG	GTAG
Hame	TA-TAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Chso	TA-TAT-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Lyto	TATTA-----	GTTTAAC	-GGC	-CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG

Encr	T-ATTA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Bvar	--TATAT-----	GT	CAAC	GGC	CGCGGT	ATT-TTA	ACTGCC	CG	AAG	GTAG
Noco	-TATTA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGCC	CG	AAG	GTAG
Chsp	CAC--GA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Arja	T-ATTT-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Pase	-----GAAAT	GT	TTA	AC	CGCGGT	ATC-TTA	ACCGTC	CA	AAG	GTAG
Trel	CAAA-A-----	GT	CAAC	GGC	CGCGGT	ATA-CTG	ACCGTC	CG	AAG	GTAG
Lifa	TTTAGT-----	GT	TTA	AC	CGCGGT	ATC-TTG	ACCGTC	CG	AAG	GTAG
Acur	TACTAA-----	GT	TTA	AC	CGCGGT	ATT-CTA	ACCGTC	CG	AAG	GTAG
Ampe	-TCTAA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Urja	T-ATAT-----	GT	TTA	AC	CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Enet	--AC-AC-----	GT	TTA	AC	CGCGGT	ATT-CTG	ACCGTC	CA	AAG	GTAG
Ptbr	TTTTA-----	AT	TTA	AC	CGCGGT	ATC-CTA	ACCGTC	CA	AAG	GTAG
Safa	CTAGA-----	AT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Icae	--TATAT-----	GT	TTA	AC	CGCGGT	ATT-CTA	ACCGTC	CG	AAG	GTAG
Asmi	-A-T--A-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Foal	-TTTAT-----	GT	TTA	AC	CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Drze	-ATACAA-----	GT	TTA	AC	CGCGGT	ATC-CTA	ACCGTC	CA	AAG	GTAG
Rhas	-GT--AA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Elac	CAAAG-----	GT	TTA	AC	CGCGGT	ATC-CTG	ACCGTC	CG	AAG	GTAG
Kugu	TTACGA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Plor	-T-ATAA-----	GT	TTA	AC	CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Sgun	TATAT-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Zaco	TATAA-----	GT	CAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Zbfl	--TTAAA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Spba	TATAT-----	GT	CAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Game	TATAT-----	GT	TTA	AC	CGCGGT	ATT-TTA	ACCGTC	CG	AAG	GTAG
Thth	TATAT-----	GT	TTA	AC	CGCGGT	ATT-TTA	ACCGTC	CA	AAG	GTAG
Xigl	AATCTA-----	GT	CAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Hyja	T---ATA-----	GT	CAAC	GGC	CGCGGT	ATT-TTA	ACCGTC	CG	AAG	GTAG
Psan	TATAT-----	GT	TTA	AC	CGCGGT	ATT-TTA	ACCGTC	CG	AAG	GTAG
Cupa	TAT--AT-----	GT	TTA	AC	CGCGGT	ATT-TTA	ACCGTC	CG	AAG	GTAG
Mpch	A-AAAA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Char	A---CTA-----	GT	CAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Pser	C-ATGT-----	GT	TTA	AC	CGCAGT	ATT-TTG	ACTGTC	CG	AAG	GTAG
Prol	-ATCATA-----	GT	CAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Plbi	AACT-TA-----	GT	CAAC	GGC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Calu	AAT-AT-----	GT	CAAC	GGC	CGCAGT	ATT-TTG	ACTGTC	CT	AAG	GTAG
Papa	ATACAT-----	GT	CAAT	GGC	CGCGGT	ATA-TTA	ACCGTC	CG	AAG	GTAG
Sufr	TTTTAC-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG
Stci	TCTGG-----	GT	TTA	AC	CGCGGT	ATC-TTA	ACCGTC	CG	AAG	GTAG
Taru	T---ATA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CA	AAG	GTAG
Rala	TATAA-----	GT	TTA	AC	CGCGGT	ATT-TTG	ACCGTC	CG	AAG	GTAG

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	39'	40	40'	36'	33'						
Scca	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAA	GGC	ACCA	CGA	GAGTTT	GACTG
Muma	CGTAATCA	TTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAA	GGC	ACCA	CGA	GAGTTT	AACTG
Erca	CGTAATCA	CTT	-GTCCTT	TAAAT	AGGGAC	TGGTATGAAT	GGC	CAAA	CGA	GGGCTC	GACTG
Pose	CGTAATCA	CTT	-GTCCTT	TAAAT	GAGGAC	TGGTATGAAT	GGC	CCCA	CGA	GGGCTC	AACTG
Actr	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTC	AACTG
Scal	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATTA	CGA	GGGCTC	AACTG
Posp	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTC	GACTG
Atsp	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ATCA	CGA	AGGCTC	ACCTG
Leoc	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ATCA	CGA	GGGCTC	ACCTG
Amca	CGTAATCA	CTT	-GTCTTT	TAAAT	AAAGAC	CTGTATGAAT	GGC	ATCA	CGA	GGGCTC	ATCTG
Osbi	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAA	GGT	ACCA	CGA	AGACCT	TACTG
Pabu	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAA	GGC	ACCA	CGA	GGGCCC	TACTG
Hial	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ATCA	CGA	GGGCCC	AGCTG
Elha	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	AACA	CGA	GGGCTC	AGCTG
Mlcy	CGTAATCA	CCT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAA	GGC	ACCA	CGA	GGGCTC	AACTG
Algl	CGTAATCA	TTT	-GTCTTT	TAAAT	AAAGAC	CTGTATGAAT	GGC	ATCA	CGA	GGGCTC	GACTG
Ptgi	CGTAATCA	CTT	-GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ACCA	CGA	GGGCTC	GACTG
Alaf	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAC	GGC	ATCA	CGA	GGGCTC	AACTG
Nock	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ATCA	CGA	GGGCTC	AGCTG
Anja	CGTAATCA	TTT	-GTCTTT	TAAAT	AGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGTTT	AACTG
Gyki	CGTAATCA	CTT	-GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGACTT	AACTG
Syka	CGTAATCA	TTT	-GTCTTT	TAAAT	GAAGAC	CAGTATGAAT	GGC	ATCA	CGA	GGGTTT	AACTG
Opma	CGTAATCA	CTT	-GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ACCA	CGA	GGGTTT	AACTG
Comy	CGTAATCA	CCT	-GTCTTT	TAAAT	AAAGAC	CTGTATGAAT	GGC	AAGA	CGA	GGGTTT	TACTG
Sasp	CGTAATCA	CTT	-GTCTTT	TAAAT	AAAGAC	CTGTATGAAT	GGC	TTAA	CGA	GGGGCT	TACTG
Eupe	CACAATCA	CTT	-GTCTTT	TAAAT	AAAGAC	CTGTATGAAT	GGC	ACAA	CGA	GGGATT	AACTG
Enja	CGCAATCA	ATT	-GCCTTT	TAAAT	GAAGGC	CTGTATGAAT	GGT	ATAA	CGA	GGGTCT	AGCTG
Same	CGCAATCA	ATT	-GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGTTT	AACTG
Chch	CGCAATCA	CTT	-GTCTCT	TAAAT	AGAGAC	CTGTATGAAT	GGC	ACGA	CGA	GGGCTT	AACTG
Grgr	CGCAATCA	CTT	-GTCTCT	TAAAT	GGAGAC	CTGTATGAAG	GGC	GCCA	CGA	GGGCTT	GACTG
Caau	CGCAATCA	CTT	-GTCTTT	TAAAT	AGAGAC	CTGTATGAAT	GGC	TAAA	CGA	GGGCTT	AACTG
Cyca	CGCAATCA	CTT	-GTCTTT	TAAAT	AGAGAC	CTGTATGAAT	GGC	TAAA	CGA	GGGCTT	AACTG
Dare	CGCAATCA	CTC	-GTCCTT	TAAAT	AGGGAC	CTGTATGAAT	GGC	CAAA	CGA	GGGCTT	AACTG
Cost	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	TAAA	CGA	GGGCTT	AGCTG
Leec	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	CAAA	CGA	GGGCTT	AACTG
Cr la	CGCAATCA	CTT	-GTCTTT	TAAAT	AAAGAC	CTGTATGAAT	GGC	CAAA	CGA	GGGCTT	AACTG
Clmc	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGT	GGAA	CGA	GGGCTT	AACTG
Phin	CGCAATCA	CTT	-GTTTTT	TAAAT	GAAGAC	CTGTATGAAT	GGT	GGAA	CGA	GGGCTT	AACTG
Icpu	CGCAATCA	CTT	-GTCTCT	TAAAT	GGAGAC	CTGTATGAAT	GGT	GGAA	CGA	GGGCTT	AACTG
Psto	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGT	GGAA	CGA	GGGCTT	AACTG
Cora	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGT	GGAA	CGA	GGGCCT	AACTG
Eisp	CGTAATCA	CTT	-GTCTTT	TAAAT	AAAGAC	CTGTATGAAT	GGC	AAAA	CGA	GGGCTT	AACTG
Apal	CGCAATCA	CTT	-GTTTCA	TAAAT	TGAAAC	CCGTATGAAT	GGC	AAGA	CGA	AGGCTT	AACTG
Es lu	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATCA	CGA	GGGCTT	AGCTG
Dape	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATCA	CGA	GGGCTT	AGCTG
Glse	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ACGA	CGA	GGGCTT	AGCTG
Naar	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ACAA	CGA	GGGCTT	GACTG
Baoc	CGTAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ACGA	CGA	GGGCTT	AACTG
Opso	CGCAATCA	CTT	-GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Al te	CGCAATCA	CTT	-GTCTTT	TAAAT	GAGGAC	CTGTATGAAT	GGC	ATCA	CGA	GGGCTT	AGCTG
Plap	CGCAATCA	CTT	-GTCTTT	TAAAT	GAGGAC	CTGTATGAAT	GGC	ATCA	CGA	GGGCTT	AGCTG

Plal CGCAATCA**CTT** - **GTCCTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**TAGA**CGAGGGCTT**AACTG
 Sami CGCAATCA**CTT** - **GTCCTT**TAAAT**GAGGAC**CTGTATGAAT**GGC**TAGA**CGAGGGCTT**AGCTG
 Rere CGCAATCA**CTT** - **GTCCTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**TAGA**CGAGGGCTT**GACTG
 Gama CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CCGTATGAAT**GGC**AAGA**CGAGGGCTA**AGCTG
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 Lolo CGTAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATCA**CGAGGGCTT**AGCTG
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 Chab CGTAATCA**TTT** - **GTCTTT**TAAAT**TAAGAC**CAGTATGAAA**GGT**GAGA**CGAGGGCTT**AGCTG
 Chto CGTAATCA**TTT** - **GTCTTT**TAAAT**TAAGAC**CAGTATGAAA**GGT**GAGA**CGAGGGCTT**AGCTG
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Cosa CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Exsp CGCAATCA**CTT** - **GTTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATGA**CGAGGGCCA**ACCTG
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 Moal CGTAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAAGGCTT**AACTG
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 Dcti CGTAATCA**CTC** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**TTGA**CGAGGGCTT**GACTG
 Hehi CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ACAA**CGAGGGCTT**AACTG
 Stam CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
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 Apve CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CCGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
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 Laja CGTAATCA**CC**T - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ACGA**CGAGGGCTT**GACTG

Syja CGCAATCA**CTT** - **GTCCTT**TAAAT**AGGGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
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 Grse CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Clja CGCAATCA**CTT** - **GTTTCT**TAAAT**GGGGAC**CTGTATGAAT**GGC**TTC**CGAGGGCTT**AACTG
 Ogcy CGCAATCA**TTT** - **GTCTTT**TAAAT**AAAGAC**CCGTATGAAT**GGC**AAGA**CGAGGGCTT**AACTG
 Plna CGTAATCA**CTT** - **GTTTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Lema CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ACAA**CGAGGGCTT**AGCTG
 Etzo CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Apse CGCAATCA**CTT** - **GTCTCT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATGA**CGAGGGCTT**AGCTG
 Epde CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ACCA**CGAGGGCTT**AGCTG
 Slja CGCAATCA**CTT** - **GCTCTT**TAAAT**GGGGGC**CCGTATGAAT**GGC**GTGA**CGAGGGCTT**GACTG
 Bsja CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAC**CGAGGGCTT**AACTG
 Ecna CGTAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGT**ATGA**CGAGGGCTT**AACTG
 Cohi CGTAATCA**TTT** - **GTCTTT**TAAAT**GGGGAC**TTGTATGAAT**GGT**ATAA**CGAGGGCTT**AACTG
 Caar CGTAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Came CGTAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Mema CGTAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ACAA**CGAGGGCTT**AGCTG
 Lenu CACAATCA**CTT** - **GTCCTT**TAAAT**GGGGAC**CTGTATGAAT**GGT**ATGA**CGAGGGCTT**AGCTG
 Brja CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ACGA**CGAGGGCTT**AACTG
 Plma CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Emst CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AGCTG
 Ptti CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AGCTG
 Losu CGCAATCA**CTT** - **GTCCTT**TAAAT**GGGGAC**CAGTATGAAT**GGC**ATCA**CGAGGGCTT**AACTG
 Geoy CGCAATCA**CTT** - **GTCCTT**TAAAT**GAAGAC**CCGTATGAAT**GGC**ATCA**CGAGGGCTT**TACTG
 Dipi CGCAATCA**CTT** - **GTCTCT**TAAAT**GGGGAC**CCGTATGAAT**GGC**ATAA**CGAGGGCTT**AGCTG
 Pama CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATCA**CGAGGGCTT**AACTG
 Leob CGTAATCA**CTT** - **GTCTCT**TAAAT**GGGGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Neba CGCAATCA**CTT** - **GCCCTT**TAAAT**GGGGGC**CCGTATGAAT**GGC**ATCA**CGAGGGCTT**ATCTG
 Pdpi CGTAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**AAGA**CGAGGGCTT**AACTG
 Nimi CGCAATCA**CTT** - **GTCTTC**TAAAT**AGAGAC**CCGTATGAAT**GGT**AAAA**CGAGGGCTT**AACTG
 Uptr CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**GACTG
 Pesc CGTAATCA**CTT** - **GTCTCT**TAAAT**GGAGAC**CTGTATGAAT**GGC**AAGA**CGAGGGCTT**AACTG
 Baar CGAAATCA**TTT** - **GTCTTT**TAAAT**GGGGAC**CAGTATGAAT**GGC**ACAA**CGAGGGCTT**AGCTG
 Moar CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AGCTG
 Toja CGTAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**AAGA**CGAGGGCTT**AACTG
 Chau CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ACAA**CGAGGGCTT**AACTG
 Chse CGAAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Enar CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ACGA**CGAGGGCTT**AGCTG
 Hpty CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ACGA**CGAGGGCTT**AGCTG
 Nana CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AGCTG
 Mcst CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CCGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Rhox CGTAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CCGTATGAAT**GGC**ATGA**CGAGGGCTT**AACTG
 Opfa CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CCGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Paar CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**GACTG
 Gozo CGAAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ACGA**CGAGGGCTT**AACTG
 Ackr CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CCGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Elev CGCAATCA**ATT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Trdu CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG
 Amoc CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ACGA**CGAGGGCTT**AACTG
 Hame CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ATCA**CGAGGGCTT**AACTG
 Chso CGCAATCA**CTT** - **GTCTTT**TAAAT**GGAGAC**CTGTATGAAT**GGC**ACGA**CGAGGGCTT**AACTG
 Lyto CGCAATCA**CTT** - **GTCTTT**TAAAT**GAAGAC**CTGTATGAAT**GGC**ATAA**CGAGGGCTT**AACTG

Encr	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Bvar	CGAAATCA	CTT	-	GTCTTT	TAAAT	GGGGAC	CTGTATGAAT	GGC	ATGA	CGA	GGGCTT	AACTG
Noco	CGCAATCA	CTT	-	GTCTCT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ACGA	CGA	GGGCTT	AGCTG
Chsp	CGCAATCA	CTT	-	GTCTCC	TAAAT	GAAGAC	CTGTATGAAT	GGC	AAGA	CGA	GGGCTT	AACTG
Arja	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CCGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Pase	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CCGTATGAAT	GGC	TAAA	CGA	GGGCTT	AACTG
Trel	CGCAATCA	CTT	-	GTCCCT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATTA	CGA	GGGCTT	AGCTG
Lifa	CGTAATCA	CCT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	CTCA	CGA	GGGCTT	TACTG
Acur	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGT	CAAA	CGA	GGGCTT	AACTG
Ampe	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Urja	CGCAATCA	CTT	-	GTCCCT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ACAA	CGA	GGGCTT	AACTG
Enet	CGCAATCA	CTT	-	GTCTTT	TAAAT	AGAGAC	CTGTATGAAT	GGC	ACAA	CGA	GGGCTT	AACTG
Ptbr	CGCAATCA	CTT	-	GTCCCT	TAAAT	AGGGAC	CTGTATGAAT	GGC	ACAA	CGA	GGGCTT	AACTG
Safa	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	GACTG
Icae	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Asmi	CGTAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	AAAA	CGA	GGGCTT	AACTG
Foal	CGTAATAA	CTT	-	GTCTTT	TAAAT	GAAGAC	TGGTATGAAT	GGC	ATCA	CGA	GGGCTT	GACTG
Drze	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CAGTATGAAT	GGC	ACAA	CGA	GGGCTT	CACTG
Rhas	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Elac	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Kugu	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Plor	CGCAATCA	CTT	-	GTCCCT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ACGA	CGA	GGGCTT	GACTG
Sgun	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Zaco	CGCAATCA	CTT	-	GCCTTT	TAAAT	GAAGGC	CCGTATGAAT	GGC	ACGA	CGA	GGGCTT	AGCTG
Zbfl	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ACAA	CGA	GGGCTT	AACTG
Spba	CGTAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	GGAA	CGA	GGGCTT	AACTG
Game	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATTA	CGA	GGGCTT	AACTG
Thth	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATTA	CGA	GGGCTT	AACTG
Xigl	CGTAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Hyja	CGTAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATTA	CGA	GGGCTT	AACTG
Psan	CGTAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATTA	CGA	GGGCTT	AACTG
Cupa	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Mpch	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ACGA	CGA	GGGCTT	GACTG
Char	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Pser	CGTAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGT	AAAA	CGA	GGGCTT	AACTG
Prol	CGTAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Plbi	CGTAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Calu	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CTGTATGAA	GGT	ATGA	CGA	GGGCTT	GACTG
Papa	CGCAATCA	CTT	-	GTCTTT	TAAAT	GAAGAC	CCGTATGAAT	GGC	AAGA	CGA	GGGCTT	AACTG
Sufr	CGCAATCA	CTT	-	GTCTCT	TAAAT	GGGGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AACTG
Stci	CGTAATCA	CTT	-	GTCTCT	TAAAT	AGAGAC	CTGTATGAAT	GGC	ATGA	CGA	GGGCTT	AGCTG
Taru	CGCAATCA	CTT	-	GTCCCT	TAAAT	GTGGAC	CTGTATGAAT	GGC	ATAA	CGA	GGGCTT	AGCTG
Rala	CGCAATCA	CTT	-	GTCTTT	TAAAT	GGAGAC	CTGTATGAAT	GGC	ACGA	CGA	GGGCTT	AACTG

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	32'	31'	25'	A'	41	41'	42
Scca	TCTCTACTCTC	-TAATC	AATGAAAT	TIGATCT	TCTCC	TGCAGAAG	CGAGTATGATAACATAA
Muma	TCTCTATTTTC	-TAATC	AATGAAAT	TIGATCT	ATTCC	TGCAGAAG	CGAATATAATAACATTA
Erca	TCTCTTTTTCTC	-CTGTC	AATTAAC	TIGATCT	ACCCC	TGCAGAAG	CGGGTATAAAAACATAA
Pose	TCTCTTTTTCTC	-CTGTC	AATTAAC	TIGATCT	ACCCC	TGCAGAAG	CGGGTATAAAAACATAA
Actr	TCTCCTTTTTC	-CAGTC	AGTGAAAT	TIGACCT	GCTCC	TGCAGAGG	CGAGCATAACCCCATAA
Scal	TCTCCTTTTTC	-CAGTC	AGTGAAAT	TIGACCT	GCTCC	TGCAGAGG	CGAGCATAACCCCATAA
Posp	TCTCCTTTTTC	-CAGTC	AGTGAAAT	TIGACCT	GCTCC	TGCAGAGG	CGAGCATAACCCATAA
Atsp	TCTCCTTTTTC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATATAAACATAA
Leoc	TCTCCTTTTTC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATGTAAACATAA
Amca	TCTCTCTTTTC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATATGCCATAA
Osbi	TCTCCTTCCTC	-AAGTC	AGTGAAAT	TIGATCT	ATTCC	TGCAGAAG	CGAATATCACAAATAA
Pabu	TCTCCTTCCCC	-AAGTC	ATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAATAATAA
Hial	TCTCCTTTTTCC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGGCATGTAAACATAA
Elha	TCTCCCGCCTC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAATAACATAA
Mlcy	TCTCCTACCCC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAAAATAA
Algl	TCTCCTATCCC	-TAATC	AGTGAAAT	TIGATCT	GTCCC	TGCAGAAG	CGGGCATAAAGATAA
Ptgi	TCTCCTCCCCC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAAAATAA
Alaf	TCTCCTCTCCC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAAAATAA
Nock	TCTCCTCTCTT	-CGGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAACAATAA
Anja	TCTCCTTCCCC	-TAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAATAATAA
Gyki	TCTCCTTTTTCC	-TGTC	AATGAAAC	TIGATCT	GCCCC	TGCAGAAG	CGGGCATGTTAAATAA
Syka	TCTCCTTCCCC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAAAATAA
Opma	TCTCCTTCCCC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAACAAATAA
Comy	TCTCCTCCCCC	-CAGTC	AATGAAAT	TIGATCT	ACCCC	TGCAGAAG	CGGGTATAAAAAATAA
Sasp	TCTCCCCCCCC	-CAGTC	AATGAAAT	TIGATCT	ACCCC	TGCAGAAG	CGGGTACAACCATAA
Eupe	TCTCCTTCCCC	-CAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGAGCATAAACAATAA
Enja	TCTCTTTTTTC	-TAGTC	AGTTAAAC	TIGATCT	GTCCC	TGCAGAAG	CGGACATAAATAATAGAA
Same	TCTCTTTTTTC	-CGGTC	AATGAAAC	TIGATCT	GCCCC	TGCAGAAG	CGGGCATATTCAACAA
Chch	TCTCTCCTCCC	-CAGTC	AGTGAAAT	TIGATCT	GTCCC	TGCAGAAG	CGGACATTATACAGAA
Grgr	TCTCCCTCCCC	-CAGTC	AGTGAAAT	TIGATCT	GTCCC	TGCAGAAG	CGGACATTACCCCGAA
Caau	TCTCCCTTTTC	-CAGTC	AGTGAAAT	TIGATCT	ACCCC	TGCAGAAG	CGGGTATAATAATAGAA
Cyca	TCTCCCTTTTC	-AAGTC	AGTGAAAT	TIGATCT	ACCCC	TGCAGAAG	CGGGTATAATAATAGAA
Dare	TCTCCCCATC	-AAGTC	AGTGAAAT	TIGATCT	ATCCC	TGCAGAAG	CGGATATAATAATAGAA
Cost	TCTCCCTTTTC	-CAGTC	AGTGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAAAATAGAA
Leec	TCTCCCTTTTC	-TAGTC	AGTGAAAT	TIGATCT	ACCCC	TGCAGAAG	CGGGTATAATAATAGAA
CrIa	TCTCCCTTTTC	-AAGTC	AGTGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAACATAGAA
Clmc	TCTCCCTTTTT	-AGGTC	AGTGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGGCATAAACAATAGAA
Phin	TCTCCCCCTCC	-CAGTC	AATGAAAC	TIGATCT	GTTCC	TGCAGAAG	CGAACATATACATAGAA
Icpu	TCTCCCTTTTC	-AAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATATAAAATAGAA
Psto	TCTCCCTTTTC	-AAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAACATAGAA
Cora	TCTCCCTTTTC	-AGGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGGTATACAAAATAGAA
Eisp	TCTCCCTTTTC	-TAGTC	AGTGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAAACATAGAA
Apal	TCTCCCTTTTC	-AGGTC	AGTGAAAT	TIGATCT	GCCCC	TGAAGAAG	CGGACATACTTAATAGAA
EsLu	TCTCCTCTTTC	-AAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAGAAATAGAA
Dape	TCTCCTTTTTTC	-AAGTC	AATGAAAT	TIGATCT	GCCCC	TGCAGAAG	CGGACATAAATAATAGAA
Glse	TCTCCTTCTCC	-CAGTC	AATGAAAT	TIGATCT	CCCCC	TGCAGAAG	CGGGCATTAACCATAGAA
Naar	TCTCCTTCTCT	-TCGTC	AATGAAAT	TIGATCT	TCCCC	TGCAGAAG	CGGGAATATATACGTAA
Baoc	TCTCCTTCTCT	-TCGTC	AATGAAAT	TIGATCT	CCCCC	TGCAGAAG	CGGGCATAAAAATAGAA
Opso	TCTCCCTCTCC	-TAGTC	AATGAAAT	TIGATCT	CCCCC	TGCAGAAG	CGGGCATAGAACATAGAA
Alte	TCTCCTTTTTCC	-AAGTC	AATGAAAT	TIGATCT	ACCCC	TGCAGAAG	CGGGTATACCCATAGAA
Plap	TCTCCTTTTTCC	-AAGTC	AATGAAAT	TIGATCT	ACCCC	TGCAGAAG	CGGGTATACCCATAGAA

Plal TCTCCTCCCC -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATTCTCCATIAA
 Sami TCTCCTCCCC -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATTACACATIAA
 Rere TCTCCTCTCCC -CAGTCAAGTAAATTTGATCTCCCC TGCAGAAGCGGGCATTGTAGCATIAA
 Gama TCTCCTTCTCC -AAGTCAAGTAAATTTGATCTCCCC TGCAGAAGCGGGCATTCCCTCATIAA
 Onmy TCTCCTCTTCC -AAGTCAATGAAATTTGATCTGCCCC TGCAGAAGCGGACATAAGCATIAA
 Sasa TCTCCTCTTCC -AAGTCAATGAAATTTGATCTGCCCC TGCAGAAGCGGACATAAACACATIAA
 Cola TCTCCTCTTCC -AAGTCAAGTAAATTTGATCTGCCCC TGCAGAAGCGGACATAAGTACATIAA
 Dita TCTCCTCTCCC -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATCCCGATATAA
 Gogr TCTCCTCTCCC -TAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGACTTTTCCATIAA
 Chsl TCTCCTTTCCC -CAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGATACCTATATAA
 Atja TCTCCTTATCC -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAACACATIAA
 lido TCTCCTTGCCC -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAACACATIAA
 Auja TCTCCCCCTC -CAGTCAATGAAATTTGATCTCCTCC TGCAGAAGCGAGCATACCCCATIAA
 Chag TCTCCCTATC -CTGTTAGTAAATTTGATCTCCCC TGCAGAAGCGGGCATAACTACATIAA
 Hami TCTCCCTACCC -CAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGATAACACATIAA
 Saun TCTCCCCCTC -TAGTCAATGAAATTTGATTTTCCCC TGCAGAAGCGGATAGTCTCCATIAA
 Nema TCTCCCTTTA -AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAGCCTCGTAA
 Disp TCTCCCTTTA -AGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATACTCGTAA
 Myaf TCTCCCTTTA -TAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACACTCGTAA
 Lagu TCTCCCTTCT -CCGTCAAGTAAAATTTGACCTACCCC TGCAGAGGCGGGTACACCCCACAA
 Trtr TCTCCCCCTT -CGGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACTCCACAA
 Zucr TCTCCCTTCT -ATGTCATGAAATTTGATTTCCCC TGCAGAAGCGGGCATGCAGTACAA
 Pxja TCTCCCTTTT -TAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAAATIAA
 Pxlo TCTCCCTTTT -TAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAAATIAA
 Pctr TCTCCTTTTT -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATGCGCATIAA
 Apsa TCTCCTTTTT -CAGTCAAGTAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAAATIAA
 Cabe TCTCTTCTTC -GAGTCAATGAAATTTGATCTTCCCC TGCAAAAGCGGGCATGAACAACACG
 Bzze TCTCCCTTCT -AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAACACATIAA
 Siim TCTCCCTTTT -TGGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCTAGCCACATTA
 Ctru TCTCCTTTTT -CAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGATTTTATAATIAA
 Dpbr TCTCCTTTTT -CAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGATAAAAAATIAA
 Caki TCTCCCTTCC -CAGTCAATGAAATTTGACCTCCCC TGCAGAGGCGGGCATACAACATATAA
 Phja TCTCCCTTCT -TAGTCAATGAAATTTGACCTTCCCC TGCAGAGGCGGATAACTATATAA
 Brsp TCTCCTTCCC -CAGTCAATGAAATTTAAACTTCCCC TGCAGATGCGGATAATGTACATIAA
 Gamo TCTCCATCTC -CAGTCAATGAAATTTGACCTCCCC TGCAGAGGCGGGCATAATTACATIAA
 Lolo TCTCCCTCTC -CAGTCAATGAAATTTGACCTCCCC TGCAGAGGCGGGCATAATTACATIAA
 Batr TCTCCCCCTC -CAGTCAATGAAATTTGTCCTCTTCC TGAAGAAGCGAACATTAAAAATATAA
 Prmy TCTCTATTTT -TAATCAATAAAATTTGTTCTCTTCC TGCAGAAAAGAACATACCCATATAA
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 Majo TCTCCTTTCC -CGGTCAATGAAATTTGATCTCCCC TGAAGAAGCGGGCATATAACATATAA
 Hlst TCTCCTTTTT -CAGTCAATGAAATTTGATCTCCCC TGAAGAAGCGGGCATAAAGCTATATAA
 Clpe TCTCCTCTATC -TAGTCAAGTAAATTTGATTTCCCC TGCAGAAGCGGGCATAAACCATIAA
 Mlmr TCTCCTCTCTC -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATGACTACATIAA
 Cr cr TCTCCTTTTT -CAACCAATGAAATTTGATCTTCCCC TGCAGAAGCGGATAACTAACATIAA
 Muce TCTCCTTTTT -CAACCAATGAAATTTGATCTTCCCC TGCAGAAGCGGATAACCAACATIAA
 Bege TCTCCTTTTT -TAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACAACATIAA
 Mela TCTCCTTTTT -CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAACCATIAA
 Hats TCTCCTTTTT -TAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAACCATIAA
 Or la TCTCCTCTCCC -TAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAAATIAA

Cosa TCTCCTTTTT - CAGTCAATGAAATTTGATTTCTCCCTGCAGAAGCTGACATATTTACATAA
 Exsp TCTCCTTCTCC - TAGTCAATGAAATTTGATCTCCCCCGGCATAAGTACATAA
 Depa TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCCCGGCATAAACCCATAA
 Rima TCTCATCCTCC - CAGTCAATGAAATTTGATCTCCCCCGGCATAAACACATAA
 Fuol TCTCCTTCCCT - AAGTCAATGAAATTTGATCTTCCCGGCATAAATAATACATAA
 Gmaf TCTCCTCCCC - CAGTCAATGAAATTTGATCTCCCCCGGCATAAACACATAA
 Xeei TCTCCTTCCCT - AAGTCAATGAAATTTGATCTTCCCGGCATAACTCACATAA
 Pros TCTCTTTTCTC - CGTCAATGAAATTTGATCTCCCCCGGCATAATCCGATAA
 Scmi TCTCTTTTCTC - TAGTCAATGAAATTTGATCTCCCCCGGCATAATTTACATAA
 Rolo TCTCCTTTTT - TAGTCAATGAAATTTGATCTCCCCCGGCATTATAACATAA
 Cere TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCCCGGCATAAAAAACATAA
 Daga TCTCCTTTTT - TAGTCAATGAAATTTGATCTTCCCGGCATGACATACATAA
 Anco TCTCCTTTTT - AAGTCAATGAAATTTGATCTTCCCGGCATAACTATACATAA
 Dmve TCTCCTTTTT - AAGTCAATGAAATTTGATCTTCCCGGCATGTTAAACATAA
 Dmar TCTCCTTTTT - AAGTCAATGAAATTTGATCTTCCCGGCATGACAAACATAA
 Anka TCTCCTCTTT - AAGTCAATGAAATTTGATCTTCCCGGCATAGCCACATAA
 Moja TCTCCTTTTT - AAGTCAATGAAATTTGATCTTCCCGGCATAACTACATAA
 Hoja TCTCCTTTTT - AAGTCAATGAAATTTGATCTTCCCGGCATAAACACATAA
 Bede TCTCTTTTCTCAAGTCAATGAAATTTGATCTCCCCCGGCATACAAAACATAA
 Bosp TCTCTTTTCTCAAGTCAATGAAATTTGATCTCCCCCGGCATACAAAACATAA
 Mysp TCTCCTTTTT - CAGTCAATGAAATTTAATCTCCCCCGGCATACAAACATAA
 Osja TCTCCTTTTT - CAGTCAATGAAATTTAATCCCCCCCGGCATAAATCCATAA
 Sgro TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCCCGGCATATAACATAA
 Pzpa TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATAACTACATAA
 Zeja TCTCCTTTTT - TAGTCAATGAAATTTGATCTCCCCCGGCATATTCACATAA
 Znne TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATGAATAATACATAA
 Zefa TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATAATAATACATAA
 Acni TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATAATAACATAA
 Ncrh TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATAATAACATAA
 Agca TCTCCTCTTT - AAGTCAATGAAATTTGATTTCCCCCGGCATACCCACATAA
 Hydy TCTCCTTTTT - CGTCAATGAAATTTGATCTCCCCCGGCATACTACATAA
 Gsac TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCCCGGCATTACTACATAA
 Pevo TCTCCTTTCCC - CAGTCAATGAAATTTGATCTCCCCCGGCATTTACCATAA
 Hiku TCTCCTCACCC - CAGTTAATGAAATTTGATCTTCCCGGCATTAACACATAA
 Inpa TCTCCTCTTT - TAGTCAATGAAATTTGATCTCCCCCGGCCTACAAGCATAA
 Auch TCTCCTCCCTC - CAGTCAATGAAATTTGATCTCCCCCGGCATTTCCACATAA
 Fico TCTCCTCCCC - CAGTCAATGAAATTTGATCTTCCCGGCATATGCCATAA
 Macs TCTCCTTTCTC - CAGTCAATGAAATTTGATCTCCCCCGGCATAAAGCCATAA
 Moal TCTCCTCTTTA - AAGTCAATAAAATTTGATCTCCCCCGGCATTACACATAA
 Syma TCTCCTCTTTA - AAGTCAATAAAATTTGATCTCCCCCGGCATAAACACATAA
 Maf r TCTCCTTTCTC - TAGTCAATGAAATTTGATCTCCCCCGGCATAACTCCATAA
 Dcpe TCTCCTCTTT - AAATCAATGAAATTTGATCTCCCCCGGCATATGCCATAA
 Dct i TCTCCTCTTT - AAATCAATGAAATTTGATCTCCCCCGGCATATGACATAA
 Hehi TCTCCTCTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATATAAACATAA
 Stam TCTCCTCTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATAACCTCATAA
 Hogi TCTCCTTTTT - CGTCAATGAAATTTGATCTCCCCCGGCATACTAACATAA
 Erzo TCTCCTCTCTC - CAGTCAATGAAATTTGATCTTCCCGGCATATATAACATAA
 Hxot TCTCCTCTTT - AAGTCAATGAAATTTGATCTTCCCGGCATATAAACATAA
 Core TCTCCTCTTT - CAGTCAATGAAATTTGATCTCCCCCGGCATATAAACATAA
 Apve TCTCCTCTTT - AAGTCAATGAAATTTGATCTTCCCGGCATTTAAACATAA
 Lat j TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCCCGGCATAAAAAACATAA
 Laja TCTCCTTTTT - CAGTCAATGAAATTTGATCTCTCCCGGCATACCAAACATAA

Syja TCTCCTTTTT - AAGTCAATGAAATTTGATCCCCCC TGCAGAAGCGGGCATAAGCA CATAA
 Epme TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGACATAAACT CATAA
 Grse TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCCTACACT CATAA
 Clja TCTCCTCCCTC - CAGTCAATGAAATTTGATCTTCTCC TGAAGAAGCGAGAATTA AAA CATAA
 Ogcy TCTCCTTTTT - TAATCAATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATTA ACC CATAA
 Plna TCTCCTTTTT - CAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATTCACA CATAA
 Lema TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGAGCATAAAAAC CATAA
 Etzo TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAATAA CATAA
 Apse TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATTTA CATAA
 Epde TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATACA CATAA
 Slja TCTCCTTTTT - AGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATTA CATAA
 Bsja TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAAC CATAA
 Ecna TCTCCTCACTC - TAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATAAATA CATAA
 Cohi TCTCCTCCCTC - TTGTCATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACTCT CATAA
 Caar TCTCCTCTCTC - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATTTA CATAA
 Came TCTCCTCTTC - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAGTA CATAA
 Mema TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAACAA CATAA
 Lenu TCTCCCTCTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACAAA CATAA
 Brja TCTCCTCCCTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATGAGCC CATAA
 Plma TCTCCTTCCTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACACC CATAA
 Emst TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATAAC CATAA
 Ptti TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACGCA CATAA
 Losu TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACTAA CATAA
 Geoy TCTCCTTTTT - CAGTCAATGAAATTTGAGCTCTCC TGCAGAAGCGGGCATCAAA CATAA
 Dipi TCTCCTTTTT - AGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACCCA CATAA
 Pama TCTCCCTCCC - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAATAC CATAA
 Leob TCTCCTCTCTC - AAGTCAATGAAATTTGATCTCTCC TGCAGAAGCGGACATAACAC CATAA
 Neba TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAACC CATAA
 Pdpi TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAATTA CATAA
 Nimi TCTCCTTTTT - ATGTCATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATCTCCO CATAA
 Uptr TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAGTA CATAA
 Pesc TCTCCCTCTC - TGGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATCCCCO CATAA
 Baar TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATAAAA CATAA
 Moar TCTCCTCTTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATATAAA CATAA
 Toja TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATCCCCO CATAA
 Chau TCTCCTTTTT - AAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATAACTA CATAA
 Chse TCTCTCTTC - AAGCCATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACACA CATAA
 Enar TCTCCTTTTT - AGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAATA CATAA
 Hpty TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACGCA CATAA
 Nana TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAACCA CATAA
 Mcst TCTCCTTTTT - AGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGGCATAAAAAC CATAA
 Rhox TCTCCTTTCTC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAATAC CATAA
 Opfa TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAAC CATAA
 Paar TCTCCTTTCC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAA TATAA
 Gozo TCTCCTTTTT - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATAAAAA CATAA
 Ackr TCTCCTTTCCC - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATCTTAC CATAA
 Elev TCTCCTTTCT - AAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATAATAA CATAA
 Trdu TCTCCTTTTT - CAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACTAA CATAA
 Amoc TCTCCTTTTT - CAGTCAATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATAATAC CATAA
 Hame TCTCCTTTCTC - AAGCCATGAAATTTGATCTCCCC TGCAGAAGCGGGCATGAACC CATAA
 Chso TCTCCTTTCC - AAGTCAATGAAATTTGATCTCCCC TGCAGAAGCGGGCATACACT CATAA
 Lyto TCTCCTCTTC - CAGCCATGAAATTTGATCTTCCCC TGCAGAAGCGGGAATACAAA CATAA

Encr	TCTCCTCTCTC	-CAGTCAATGAAAT	TGATCT	TCCCC	TGCAGAAG	CGGGA	ATACAAA	CATAA	
Bvar	TCTCCTTTTTC	-AAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATGCCCC	CACAA	
Noco	TCTCCTCCCCT	-AAGTTAATGAAAT	TGATCT	TTCCC	TGCAGAAG	CGGGA	ATAAACA	CATAA	
Chsp	TCTCCTCCCCC	-CAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAACCC	CATCA	
Arja	TCTCCTCTTTC	-TAGTCAATGAAAT	TGATCT	TTCCC	TGCAGAAG	CGGGA	ATAAAAA	CATAA	
Pase	TCTCCTTTCCC	-AAATCAGT	GAAAT	TGATCT	CTCCC	TGCAGAAG	CGGGA	ATAAAAA	CATAA
Trel	TCTCCTTATTC	-CAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	GTAGAA	AATAA	
Lifa	TCTCCTCTCCC	-CAGTCAATGAAAT	TGATCT	GCCCC	TGCAGAAG	CGGGA	ATTGAAA	CATTA	
Acur	TCTCCTTTTTC	-ATGTCAGT	GAAAT	TGATCT	CCCCC	TGAAGAAG	CGGGA	GTGTTAA	TATAA
Ampe	TCTCCTTTTCTC	-TAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAGAAC	CATAA	
Urja	TCTCCTTTTTI	-AAGTCAATGAAAT	TGATTT	TCCCC	TGCAAAAG	CGGGA	ATAAAAC	CATAA	
Enet	TCTCCTTTCCC	-CAGTCCAT	GAAAT	TGATCT	TTCCC	TGCAGAAG	CGGAA	ATTCTAA	CATAA
Ptbr	TCTCCTTTTCTC	-CAGTCAATGAAAT	TGATTT	CCCCC	TGCAGAAG	CGGGA	ATAAAAC	CATAA	
Safa	TCTCCCCCTCC	-CAGTCAAGT	GAAAT	TGATCT	TTCCC	TGCAGAAG	CGGGA	ATACACA	CATAA
Icae	TCTCCTTTTTC	-AAGTCAAGT	GAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATACACC	CATAA
Asmi	TCTCCCTTTTT	-TAATCAGT	GAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAAAAT	CATAA
Foal	TCTCCACCCCT	-TAGTCAAT	TAAAT	TGATCT	CCCCC	TGCAGAAG	CTGGC	ATACACA	CATTA
Drze	TCTCCTTTTCTC	-TAGTCAAGT	GAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATATACA	TATAA
Rhas	TCTCCCTTTCC	-CGTCAAT	GAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAAACT	CGTAA
Elac	TCTCCTTTTTC	-CAGTCAATGAAAT	TGATCT	GCCCC	TGCAGAAG	CGGGA	ATAAATA	CATAA	
Kugu	TCTCCTTTTCTC	-AAGTCAATGAAAT	TAACT	TCCCC	TGCAGAAG	CGGGA	ATAACAA	CATAA	
Plor	TCTCCTCTTTC	-CAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATTCTCC	CATAA	
Sgun	TCTCCTCTTTC	-AAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAATCT	CGTAA	
Zaco	TCTCCTTTTTC	-CAGTCAATGAAAT	TGATCC	CCCCC	TGCAGAAG	CGGGA	ATCCAAT	CATAA	
Zbfl	TCTCCTCTTTC	-CAGTCAATGAAAT	TAACT	TCCCC	TGCAGAAG	CGGGA	ATATACT	CATAA	
Spba	TCTCCTTTTTC	-AGTCAATGAAAT	TGATCT	CTCCC	TGCAGAAG	CGGAC	ATAACAC	CATAA	
Game	TCTCCTTTTTC	-AAGTCAAGT	GAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATATACC	CATAA
Thth	TCTCCTTTTTC	-TAGTCAAGT	GAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATGTAAC	CATAA
Xigl	TCTCCTCTTTC	-CAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATATAAC	CATAA	
Hyja	TCTCCTTTTTC	-AAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAATCC	CATAA	
Psan	TCTCCTTTTTC	-AAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAATAC	CATAA	
Cupa	TCTCCTTTTTC	-AAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAAATC	CATAA	
Mpch	TCTCCTTTTTC	-TAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAAGAA	CATAA	
Char	TCTCCTTTTTC	-AAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGAGG	ATGACAA	CATAA	
Pser	TCTCCTTTTTC	-TAGTCAATGAAAT	TGATCC	CCCCC	TGCAGAAG	CGGGA	ATACAAA	CATAA	
Prol	TCTCCTTCCCC	-CAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAACCT	CATAA	
Plbi	TCTCCTTCCCC	-CAGTCAATGAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAAAAT	CATAA	
Calu	TCTCCTCTCTC	-CGTCAAGT	GAAAT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATTCAAG	CATAA
Papa	TCTCCCCCCCC	-CAGTCAATGAAAT	TGATCT	TTCCC	TGCAGAAG	CGGAA	ATGATAA	CATAA	
Sufr	TCTCCTTTCCC	-AAGTTAATGAAAT	TGATCC	CCCCC	TGCAGAAG	CGGGA	ATAAGGA	CATAA	
Stci	TCTCCTTTTCTC	-AAGTTAATGAAAT	TGACCT	CCCCC	TGCAGAGG	CGGGA	ATATTAC	CATAA	
Taru	TCTCCTTTTCTC	-AAGTCAATGAACT	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAAAAC	CATAA	
Rala	TCTCCTTTTTC	-TAGTCAATGAAAC	TGATCT	CCCCC	TGCAGAAG	CGGGA	ATAACCC	CATAA	

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	42	43	44	!	HVR	!
Scca	GACGA	GAAGAC	CCTAT	GGAGCTT	CAAATA	CATAAATTAAT-----TATGTACA
Muma	GACGA	GAAGAC	CCTAT	GGAGCTT	TAAACA	CTTAAGTTAAT-----TATGT--A
Erca	GACGA	GAAGAC	CCTGT	GGAGCTT	TAGACC	TAATCCAAAC-----ACT--ACAA
Pose	GACGA	GAAGAC	CCTGT	GGAGCTT	TAGACT	AAATCCAAA-----TGACTACCA
Actr	GACGA	GAAGAC	CCTAT	GGAGCTT	AAACA	CAAGATCAA-----CTATGCTAT
Scal	GACGA	GAAGAC	CCTAT	GGAGCTT	AAACA	CAAGATCAA-----CTATGCTAT
Posp	GACGA	GAAGAC	CCTAT	GGAGCTT	AAACA	CAAGATCAA-----CTATGCTAT
Atsp	GACGA	GAAGAC	CCTAT	GGAGCTT	AAACA	CAAGACCAA-----CCACGCCAG
Leoc	GACGA	GAAGAC	CCTAT	GGAGCTT	AAACA	CAAGACCAACCAC----G-CCAGTAACCC-A
Amca	GACGA	GAAGAC	CCTAT	GGAGCTT	TAAACA	AAGAATCAA-----CCATGCATA
Osbi	GACGA	GAAGAC	CCTGT	GGAGCTT	AAGATG	TTTATTTACTTGC-----GCTTAGT-AA
Pabu	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	TAAGTCAAT-----CATGCCTA
Hial	GACGA	GAAGAC	CCTAT	GGAGCTT	AAGATA	TATGACCAA-----CC-GCGCTTA
Elha	GACGA	GAAGAC	CCTGT	GGAGCTT	TAGACC	TATGGCCAC-----CCATGCCGA
Mlcy	GACGA	GAAGAC	CCTGT	GGAGCTT	TAGGCA	CAAGGCCAA-----CCACGCCAA
Algl	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGATA	TAAGATCAC-----ACGTACTTA
Ptgi	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAAGGCCAAA-C-----ATGCCCA
Alaf	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAAAGCCAA-----ACATGTTAA
Nock	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAAAGCCAA-----TCATGTTTA
Anja	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAAGATCAA-----ACATGTA-A
Gyki	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGGCA	AATGATCAT-----GTA-CACCAAA
Syka	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGGCC	AAAGTCAA-----CATGTACA
Opma	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGGCT	AAAGGCCA-----AACATGTAAA
Comy	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGGCA	CACATCAA-----T-ATGTAAA
Sasp	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAACTAAAGCATTTTC-T-ATACTATGATAA
Eupe	GACGA	AAAGAC	CCTAT	GGAGCTT	TAGACA	AAGTCAACA-----TGCCTAAA
Enja	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	CTAGCCAACCTG-----TGAATAA
Same	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	CCAACCAAC-----CACGAAAA
Chch	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	CAAGACCAAC-----CATGTTA--A
Grgr	GACGA	GAAGAC	CCTTT	GGAGCTT	AAACA	TAAGGCCA-----CCACGT---
Caau	GACGA	GAAGAC	CCTTT	GGAGCTT	AAGGTA	CAAAACTCA-----ACCACGTAA
Cyca	GACGA	GAAGAC	CCTTT	GGAGCTT	AAGGTA	CAAAACTCAACC-----ACGTAA
Dare	GACGA	GAAGAC	CCTTT	GGAGCTT	AAGGTA	CAAGATTTA-----ATTTACATCAA
Cost	GACGA	GAAGAC	CCTTT	GGAGCTT	AAGGTT	CAAGTCCACCC-----GCGTTAA
Leec	GACGA	GAAGAC	CCTTT	GGAGCTT	AAGGTA	CAAACCCAC-----CTATGTTAA
CrIa	GACGA	GAAGAC	CCTTT	GGAGCTT	AAGGTA	CAAACCCAA-----CCACGT---
Clmc	GACGA	GAAGAC	CCTTT	GGAGCTT	TAGACA	TAAAGCCAA-----CTGTGTCAA
Phin	GACGA	GAAGAC	CCTTT	GGAGCTT	TAGACA	AAAGGCCAAC-----TATTCC-C
Icpu	GACGA	GAAGAC	CCTTT	GGAGCTT	TAGATA	CAAGATCAT-----CTATGT---
Psto	GACGA	GAAGAC	CCTTT	GGAGCTT	TAGACT	TAAGATCAA-----CTATGT---
Cora	GACGA	GAAGAC	CCTTT	GGAGCTT	TAGATT	AAAAATCAA-----CT-ATGTCAA
Eisp	GACGA	GAAGAC	CCTTT	GGAGCTT	TAGACC	CCGACCACCT-----ATGTTAA
Apal	GACGA	GAAGAC	CCTTT	GGAGCTT	TAGACT	TAAACCAACT-----GTGTAAC
EsIu	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	CCCGGCAGA-----CCCTGT---
Dape	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	CTAGGCAGAC-----CCTGTTAA
Glse	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAAGGCAGA-----CCACGTTTA
Naar	GTGGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAAGGCAGA-----CT-ACGTTAA
Baoc	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGACA	AAAGGCAGA-----CTACGTTAA
Opso	GACGA	GAAGAC	CCTAT	GGAGCTT	TAGATA	AAAGGTAGACC-----ACGTTTT
Alte	GACGA	GAAGAC	CCTGT	GGAGCTT	TAGATA	TAAGGTCAA-----CCACGTCAA
Plap	GACGA	GAAGAC	CCTGT	GGAGCTT	TAGACA	CAAGGTCAACC-----ACGTCAA

Plal **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CTAGACGGCCT-----ACGTAA
 Sami **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CTAGACAGC-----CCACGTTAC
 Rere **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CTAGACAACC-----CACGTCAA
 Gama **GACGA**GAAGAC**CCTATGGAGCTT****AGACC**CTAGGAAGACC-----ATGTTAA
 Onmy **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CCAGGCAGAT-----CACGTCAA
 Sasa **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CCAGGCAGATCAC-----GTCAAGT-AA
 Cola **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CCAGGCAGA-----TCACGTCAA
 Dita **GACGA**GAAGAC**CCCATGGAGCTT****AGACA**CTGGGCAAC-----CCACCCCTG
 Gogr **GACGA**GAAGAC**CCCATGAAGCTT****CAGACC**CCAGTCAACC-----CCTCCCC---
 Chsl **GACGA**GAAGAC**CCTGTGAAGCTT****AGACA**CTAGAAAGCC-----CCACCAA
 Atja **GACGA**GAAGAC**CCTGTGGAGCTT****AGATT**ATAAGTAGA-----CTATGTTAA
 lido **GACGA**GAAGAC**CCTGTGGAGCTT****AAATT**ATAAGTAGA-----CTAT-GTTA
 Auja **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**TCAAACAGC-----CCACGTAAA
 Chag **GACGA**GAAGAC**CCTGTGGAGCTT****AGACA**CTTAAGCGACC-----CAAATAGA
 Hami **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**TCAAGCAGCC-----TACAG-CA
 Saun **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**TCAAGCAGC-----CCACAAA-A
 Nema **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CAAGGCGGCC-----ACGTCAA
 Disp **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**TAAAGCGAC-----CCACGT---
 Myaf **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**TAAAGCAAC-----CCATGTTAA
 Lagu **GACGA**GAAGAC**CCTGTGGAGCTT****AGGCC**CAAGAAAGAGGACA-----
 Trtr **GACGA**GAAGAC**CCTATGGAGCTT****GAGACT**TTGGAAAGCC-----TGCCTT-A
 Zucr **GACGA**GAAGAC**CCTGTGGAGCTT****AGACT**TTAGTGAGC-----TT-GCCCAA
 Pxja **GACGA**GAAGAC**CCTATGGAGCTT****GAAACC**TATGATAGTA-----CACGTC-A
 Pxlo **GACGA**GAAGAC**CCTATGGAGCTT****GAAACC**TATGATAGTGC-----ACGTCAA
 Pctr **GACGA**GAAGAC**CCTATGGAGCTT****AGACC**TCCCCGAC-----CCATGTGAC
 Apsa **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CCCCCTAAC-----CTATGC-GA
 Cabe **GACGA**GAAGAC**CCTGTGGAGCTT****GAAACA**ATTGGGGATT-----CAGATC-A
 Bzze **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CAAAGCAGAC-----CATGTT-A
 Siim **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CTAAGGAAGCC-----CA-GTCAA
 Ctru **GACGA**GAAGAC**CCTATGGAGCTT****AGATA**CTAAGACAG-----ATCATGTTAA
 Dpbr **GACGA**GAAGAC**CCTATGGAGCTT****AGATA**CTAAGATAGA-----T-CATGT-TA
 Caki **GACGA**GAAGAC**CCTGTGGAGCTT****AGACT**TAAAATAACC-----CTAT---
 Phja **GACGA**GAAGAC**CCTGTGGAGCTT****AGACC**TAAAATAAA-----TCACAT---
 Brsp **GACGA**GAAGAC**CCTTTGGAGCTT****CAGACC**CTAATAAG-----TTATGTT-T
 Gamo **GACGA**GAAGAC**CCTATGGAGCTT****AGACC**TAAAGTAAG-----TCACGTTTA
 Lolo **GACGA**GAAGAC**CCTGTGGAGCTT****AGACC**TAAGGTAAAGTC-----ACGTTTA
 Batr **GACGA**AAAGAC**CCCGTGGAGCTT****AGGAC**GCCTCAGAAAC-----
 Prmy **GACGA**GAAGAC**CCTGTGGAGCTT****CAAGTA**AACTAAGAG-----T--
 Loli **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CTAAGGCAGC-----TTACGTT-A
 Loam **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CCAAGGCAGATC-----ACGTTAA
 Chab **GACGA**GAAGAC**CCTGTGGAGCTT****AGACA**CTCGGGCAG-----ACTATGTCAA
 Chto **GACGA**GAAGAC**CCTGTGGAGCTT****AGACA**CTCGGGCAG-----ACTATGT---
 Majo **GACGA**GAAGAC**CCTGTGGAGCTT****AAACA**CCAGGTGAG-----CCCATGT---
 Hlst **GACGA**GAAGAC**CCTGTGGAGCTT****AAACA**AGTAGCGGG-----CCAT-GTCA
 Clpe **TACGA**GAAGAC**CCTATGGAGCTT****AGACC**CAAGTGCAG-----TCCTGTTTT
 Mlmr **GACGA**GAAGAC**CCTATGGAGCTT****AGACA**CTAGAACAG-----ACT-ATATACA
 Crcr **GACGA**GAAGAC**CCTGCGGAGCTT****AGACC**CCAGAACAG-----ATCACGTCA-
 Muce **GACGA**GAAGAC**CCTGCGGAGCTT****AGACC**CCAGAACAG-ATC-----ACGTCAA
 Bege **GACGA**GAAGAC**CCTGTGGAGCTT****AGACA**ACAGGGCAG-----ACCATGTCAA
 Mela **GACGA**GAAGAC**CCTGTGGAGCTT****AGACC**AGAGCAGCTC-----ACTTTCA
 Hats **GACGA**GAAGAC**CCTGTGGAGCTT****AGACA**AAAGAACAG-AC-----CATGTCAA
 Orla **GACGA**GAAGAC**CCTGTGGAGCTT****AGACC**ATAAATAGA-----CC-ATGTCAA

Cosa GACGA GAAGAC CCTAT GAGCTT AGACC AAGGGCAGA-----CCATGTTAA
 Exsp GACGA GAAGAC CCTT TGGAGCTT TAGACT ACAGGCAGA-----CCATGCTTA
 Depa GACGA GAAGAC CCTGT GGGAGCTT TAGATA ATATGATGG-AC----C-----ATGTTAA
 Rima GACGA AAAGAC CCTGT GGGAGCTT TAGATT ACAGAGCAG-----
 Fuol GACGA GAAGAC CCTAT GGGAGCTT CAGACA CAAGGGCAT-----ATCATGT---
 Gmaf GACGA GAAGAC CCTAT GGGAGCTT TAGACC CACTAGCAG-----ATCATAA---
 Xeei GACGA GAAGAC CCTAT GGGAGCTT TAGACA CAAGGACAG-----ATCATGTTAA
 Pros GACGA GAAGAC CCTAT GGGAGCTT TAGACA CAAAGTAGC-----CCAAAC---
 Scmi GACGA GAAGAC CCTAT GAAAGCTT TAGACC CAAAGCGAA-----CCAAACCAC
 Rolo GACGA GAAGAC CCTAT GGGAGCTT CAGACA CAAAGCAGT-----CCACTC---
 Cere GACGA GAAGAC CCTAT GGGAGCTT TAGACA AAATAGTAG-TC-----CATATA-A
 Daga GACGA GAAGAC CCTGT GGGAGCTT TAGACA TGAGCAGAG-----C-AAGCTGA
 Anco GACGA GAAGAC CCTAT GGGAGCTT CAGACA CAAAGCAGC-----CCACGTTAA
 Dmve GACGA GAAGAC CCTAT GGGAGCTT TAGACC CAAGGCAGC-----CCACGTC-A
 Dmar GACGA GAAGAC CCTAT GGGAGCTT CAGACA TAGGGCAGC-----TCAC-GTCA
 Anka GACGA GAAGAC CCTAT GGGAGCTT CAGACA CAAGGCAGC-----TCATGTTAA
 Moja GACGA GAAGAC CCTAT GGGAGCTT CAGACA CAAAGCAGC-----C-CACGT--T
 Hoja GACGA GAAGAC CCTAT GGGAGCTT CAGACA CAAGGCAGC-----C-CACGT-TA
 Bede GACGA GAAGAC CCTAT GGGAGCTT TAGACA CAAAGCAGTC----C-----AGATTAA
 Bsp GACGA GAAGAC CCTAT GGGAGCTT TAGACA CAAAGCAGC-----CCA-AATTA
 Mysp GACGA GAAGAC CCTGT GGGAGCTT TAGACA AAAGACCGA-----CCTTGCAAA
 Osja GACGA GAAGAC CCTGT GGGAGCTT TAGACA TAAAGCGGAC-----C-----ACATAAA
 Sgro GACGA GAAGAC CCTGT GGGAGCTT TAGACA CAAGACAGA-----CCATAAAGA
 Pzpa GACGA GAAGAC CCTGT GGGAGCTT TAGACC TAGTGCAGC-----CCACAA--A
 Zeja GACGA GAAGAC CCTAT GGGAGCTT TAGACC TAGTGCAGC-----CCACGAAAA
 Zne GACGA GAAGAC CCTAT GGGAGCTT TAGACC TAGTGAAGA-----CCA--CGAA
 Zefa GACGA GAAGAC CCTAT GGGAGCTT TAGACC TAATGCAGT-----CCACGAATA
 Acni GACGA GAAGAC CCTAT GGGAGCTT TAGACC TAGTGCAGA-----CCACGAAAA
 Ncrh GACGA GAAGAC CCTAT GGGAGCTT TAGACC TAGTGCAGA-----TCACGA---
 Agca GACGA GAAGAC CCTAT GGGAGCTT TAGACA CAAGGTAAG-----TTATGTTAA
 Hydy GACGA GAAGAC CCTAT GGGAGCTT TAGACA CTAGAGTAG-----ACCATGTTAA
 Gsac GACGA GAAGAC CCTAT GGGAGCTT TAGACA CTAAGTGG-----ATCATGTCAA
 Pevo GACGA GAAGAC CCTAT GGGAGCTT TAGACT ACCAAGCAG-----ATTAAGT---
 Hiku GACGA GAAGAC CCTGT GGGAGCTT CAGACA ATAGATGAA-T-----T-TATTA---
 Inpa GACGA GAAGAC CCCGT GGGAGCTT TAGACA TAAAGCAAC-----T-TGT-AA
 Auch GACGA GAAGAC CCTAT GGGAGCTT TAGACA CCCAACAGAC-----C-----AAGTAAA
 Fico GACGA GAAGAC CCTAT GGGAGCTT TAGACA TAAGACAGC-----CTATGTTAA
 Macs GACGA GAAGAC CCTAT GGGAGCTT TAGATA TCAAAGCAG-CT-----CGTGTAA
 Moal GACGA GAAGAC CCTGT GGGAGCTT TAGACC CTAAGCAG-----CCCACGAACT
 Syma GACGA GAAGAC CCTGT GGGAGCTT TAGGCA CTAAGTAA-----TGT-AC
 Maf r GACGA GAAGAC CCTGT GGGAGCTT TAGACA CAAAGCAGA-----TC-TGGCAA
 Dcpe GACGA GAAGAC CCTGT GGGAGCTT TAGACA CAAGACAAA-----ATCACGT---
 Dct i GACGA GAAGAC CCTGT GGGAGCTT TAGACA TAAGACAAA-----ATCACGT---
 Hehi GACGA GAAGAC CCTAT GGGAGCTT TAGACA CCAAGAAG-ATC-----CTGTCAA
 Stam GACGA GAAGAC CCTAT GGGAGCTT TAGACA CCAAGGAG-A-----TCATGTTTA
 Hogi GACGA GAAGAC CCTAT GGGAGCTT TAGACC ACAAGTCGG-----GTCATGTCAA
 Erzo GACGA GAAGAC CCTAT GGGAGCTT TAGACA CCAAGCAG-----ATCACGTTAA
 Hxot GACGA GAAGAC CCTAT GGGAGCTT TAGACA CCAAGGCGG-----CCCACGTTAA
 Core GACGA GAAGAC CCTAT GGGAGCTT TAGACA CGAAGCAG-----CCCACGT---
 Apve GACGA GAAGAC CCTAT GGGAGCTT TAGACA CCAAGGCAG-C-----TTACGTT-A
 Lat j GACGA GAAGAC CCTAT GGGAGCTT TAGACA CCAGGATAG-CT-----CATGTTAA
 Laja GACGA GAAGAC CCTAT GGGAGCTT TAGACC CCAGGACAG-----ACCATGT---

Syja GACGA GAAGAC CCTGT GAGCTT TAGACA CTAAGCAG-----ATCAAGTTAA
 Epme GACGA GAAGAC CCTAT GAGCTT TAGACA CTAAGCAG-GC-----CA-GTATT
 Grse GACGA GAAGAC CCTAT GAGCTT CAGACA CCAAGCAG-----ACCATAT-AC
 Clja GACGA GAAGAC CCTAT GAGCTT TAAACA CTCGAACAA-----TTATGT---
 Ogcy GACGA GAAGAC CCTGT GAGCTT TAGGCA ACAGAAAGG-----ATCTTGT---
 Plna GACGA GAAGAC CCTAT GAAGCTT TAGACA CCAGAACAG-----CCCAGATCAA
 Lema GACGA GAAGAC CCTAT GAGCTT TAGACC CCAGAATAA-----ATCATGTCAA
 Etzo GACGA GAAGAC CCTAT GAAGCTT TAGATA TAAGACAGA-----TCACGT---
 Apse GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGCGG-----ACCATGT---
 Epde GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGACAG-A-----TCATGTT-A
 Slja GACGA GAAGAC CCTAT GAGCTT TAGACA CTAAGGCAG-A-----C-CACGT--T
 Bsja GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGCGG-----CCCACAGTTA
 Ecna GACGA GAAGAC CCTAT GAGCTT TAGATA CTAGAATAG-AC-----CATGTTAA
 Cohi GACGA GAAGAC CCTAT GAGCTT TAGATA CTAAGGTAG-----ACCATATTCC
 Caar GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGACAG-C-----C-CATGT-TA
 Came GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGACAG-A-----TCATGTT-A
 Mema GACGA GAAGAC CCTAT GAGCTT TAGACA CCCAGGACAG-CC-----CATGTTTA
 Lenu GACGA GAAGAC CCTAT GAGCTT TAGACA CCAGAACAG-A-----C-CACGT-TA
 Brja GACGA GAAGAC CCTAT GAGCTT TAGACA TACGGTATA-----TCCCGTTAA
 Plma GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGGCAT-G-----TCATGTT-A
 Emst GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGCAG-----ATCAT-GTTA
 Ptti GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGCAG-----ACCA-TGTTA
 Losu GACGA GAAGAC CCTAT GAGCTT TAGATA TTAAGCAGA-----CTGTGTTAA
 Geoy GACGA GAAGAC CCTAT GAGCTT TAGACT CAATGGGCAG-ACT-----ATGTTAA
 Dipi GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGACAG-ACC-----ATGTTAA
 Pama GACGA GAAGAC CCTAT GAGCTT TAGACC TCAGAGCAG-CC-----CATGTA-A
 Leob GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGGTAG-A-----TTTATGTTTA
 Neba GACGA GAAGAC CCTGT GAGCTT TAGATA CTAAGATTG-----ATC-CTCTTA
 Pdpi GACGA GAAGAC CCTGT GAGCTT TAGACC CAAGACAGA-----CTATGT---
 Nimi GACGA GAAGAC CCTAT GAGCTT TAGACA CCTAGACAG-----ACCACGT-CA
 Uptr GACGA GAAGAC CCTGT GAGCTT TAGACA CTAGGACAG-----ACCATGT---
 Pesc GACGA GAAGAC CCTGT GAGCTT TAGACA CTAATAATAG-----ACC-ATGTCCC
 Baar GACGA GAAGAC CCTAT GGAAGCTT TAGGCA CTAAGACAG-----ACCATGTTAC
 Moar GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGGTAG-----ATCATGTTAA
 Toja GACGA GAAGAC CCTAT GAGCTT TAGATG ATGAAACAG-----ACCACGTCAA
 Chau GACGA GAAGAC CCTAT GAGCTT TAGACA AAAGCAGGC-----CATGT-TA
 Chse GACGA GAAGAC CCTGT GAGCTT TAGACA CCAAGGCAG-----ATTATGTTAA
 Enar GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGGCAG-----TTTATGTTAA
 Hpty GACGA GAAGAC CCTAT GAGCTT TAGACA CTAAGACAG-----ACC-ATGTTAA
 Nana GACGA GAAGAC CCTAT GAGCTT TAGACA CCAA-ACAG-----ATTTTGTAAA
 Mcst GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGACAG-----CTCAAAGTTA
 Rhox GACGA GAAGAC CCTAT GAGCTT TAGACA CAAGGCAGA-----TCATGTTAA
 Opfa GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGGCAG-AT-----CATGTT-A
 Paar GACGA GAAGAC CCTAT GAGCTT TAGACA CCAACGCAG--ATC-----ACGCTAC
 Gozo GACGA GAAGAC CCTAT GAGCTT TAGACA CCAGAATAG-AC-----CATGT-TA
 Ackr GACGA GAAGAC CCTAT GAGCTT TAGACA CTAAGCAG-----GTCACGT---
 Elev GACGA GAAGAC CCTAT GAGCTT TAGACA TAAGCAGACC-----TTGTTAA
 Trdu GACGA GAAGAC CCTAT GAGCTT TAGACC CCAGAACAG-----ACCATGT---
 Amoc GACGA GAAGAC CCTGT GAGCTT CAGACA CTAATCAG-CC-----CTTGTCCA
 Hame GACGA GAAGAC CCTAT GAGCTT TAGACA CCAAGCAG-----CTTACGTCAA
 Chso GACGA GAAGAC CCTAT GAGCTT TAGACA CTAATAACAG-----CTCATGTTAA
 Lyto GACGA GAAGAC CCTAT GAAGCTT TAGACA CCAAGGCAG-ATC-----ATGTTAA

Encr GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGACAG-----ATCA-TGTTA
 Bvar GACGA GAAGAC CCTAT GAAGCTT TAGACA CAAGGCAGC-----CCCCGTAA
 Noco GACGA GAAGAC CCTAT GAAGCTT TAGACC TAAGGTAGA-----CCAGACTAC
 Chsp GACGA GAAGAC CCTGT GGAGCTT TAGATA CTAGAAAGA-----CCATTT---
 Arja GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGACAG-----CTCATGTAA
 Pase GACGA GAAGAC CCTAT GGAGCTT TAGACA CTAAGATAG-CC-----CCCCTC-C
 Trel GACGA GAAGAC CCTAT GGAGCTT TAGACA ACAGAATAG-A-----C-CAT-----
 Lifa GACGA GAAGAC CCTAT GGAGCTT TAGACA CAAAATAGCTC-----GTACCAC
 Acur GACGA GAAGAC CCTAT GGAGCTT CAGGCA CTAAGACAG-CT-----CATGTCCC
 Ampe GACGA GAAGAC CCTAT GGAGCTT TAGACC CCAAGACAG-----ACC-ATGTAA
 Urja GACGA GAAGAC CCTGT GGAGCTT TAGACA CTAAGCAGCCC-----ATGTTAC
 Enet GACGA GAAGAC CCTGT GGAGCTT CAGACA CCAAGGCAG-----CCCCCCC--
 Ptbr GACGA GAAGAC CCTGT GGAGCTT TAGACA AAAAATAAAT-----TTGTAA
 Safa GACGA GAAGAC CCTGT GGAGCTT TAGACA GCAGACTGC-C-----C-TTACA-CA
 Icae GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGGCAT-----ATC-ATGTAA
 Asmi GACAA AAAGAC CCTGT GGAGCTT AAACA CAAGAGAGG-AAT-----ACCCCCAACTC
 Foal GACGA GAAGAC CCTAT GGAGCTT TAGCCA AATTAGGCTT-----AAGTTA-CTG
 Drze GACGA GAAGAC CCTGT GGAGCTT TAGATG TAAAAGTAG-----ACTAAATTAAT
 Rhas GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAGGACAG-----ACCATGT---
 Elac GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAGAACAG-----ACCGCACTGA
 Kugu GACGA GAAGAC CCTAT GGAGCTT TAGACA AAACACAGA-----CTGCATCAA
 Plor GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGGCAG-----ACCATGTAA
 Sgun GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGCAGATC-----ATGTAA
 Zaco GACGA GAAGAC CCTAT GGAGCTT TAGATA CTAAGACAGATC-----ACGTCAC
 Zbfl GACGA GAAGAC CCTAT GGAGCTT TAGACA CTAAGACGA-----ATCATGT---
 Spba GACGA GAAGAC CCTGT GGAGCTT TAGGTA ACAAACAGATC-----GTGCCCA
 Game GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGGCATAT-----CATGTAA
 Thth GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGGCATATC-----ATGTCAA
 Xigl GACGA GAAGAC CCTAT GGAGCTT TAGACC TCAAAGCAGA-----TCATGTT-A
 Hyja GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAGGCAT-----ATCATGTTAC
 Psan GACGA GAAGAC CCTAT GGAGCTT TAGACA CTAAGGCAT-----ATCAT-GTAA
 Cupa GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAAGTAT-----ATCATGC---
 Mpch GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAAACAG-----ATCTTGTTAA
 Char GACGA GAAGAC CCTAT GGAGCTT TAGACA CCAGAGTAG-----CCCTGTCAA
 Pser GACGA GAAGAC CCTGT GGAGCTT TAGACC CCAGAGCAG-----ACCATGTAA
 Prol GACGA GAAGAC CCTAT GGAGCTT TAGACC CAAGGCAG-----ATC-ATGTCAA
 Plbi GACGA GAAGAC CCTAT GGAGCTT TAGACA CACAGGTG-----ACCATGT---
 Calu GACGA GAAGAC CCTGT GGAGCTT TAGACA ACCGGGTAG-----CCCATGTCAA
 Papa GACGA GAAGAC CCTGT GGAGCTT TAGACA GTTAACCGC-----CCAT-AACA
 Sufr GACGA GAAGAC CCTAT GGAGCTT TAGGCA ACAAGCAGA-----CCGTACCA-
 Stci GACGA GAAGAC CCTAT GGAGCTT TAGGTC TAAAACTG-----CTCAT-GT-A
 Taru GACGA GAAGAC CCTAT GGAGCTT TAGACA AAAAACAGC-----CCCTGTCA-
 Rala GACGA GAAGAC CCTAT GGAGCTT TAGACA CTAAGTAG-A-----T-CATGT-TA

* * * * * * * * * * * * * * * *

	HVR
Scca	TA---TTAATAAT-----CCCAGGACATAAACAAAAAAT-A-----TAATAC--TTCT
Muma	ACCATTTATTCTC-----AGGGTATAAACAAAATATAT-----AATACTTCT--
Erca	A---CCCTATAAAAAATATAG-----GTAAAC-----CCTATGTTA-----
Pose	ACTA-----TATTTT--A-----CCATATAGA-----TAAACA-CAGC-ATT-AT---
Actr	CAAGCCAAC-----TACCCACGGAAATAATA-----GCTAAAAGCATAATAGTACCCT
Scal	CAAGCCAACCACCTA-----CGGAAATAAC---AGCTAAAAGCACA--ATAGTA--CTAT
Posp	CAAGCCAACACACCAA--CAGG-AAT-----AACAGCTATAAGCATAATAGTACCTCT---
Atsp	CAACCCAACGTGTTTCGAAAGAC-----ATAAAAAATATAAAG---CACAGTGATCCCT----
Leoc	ATTGCTCGAAAGAC-----ATAAAAAATACAAAGCACAGTG---GTCTCT
Amca	CAAGTTTATCCCCCAA--CATG-AAATAACAACCTCAAGCA-CAT-----TGGCCTTC---
Osbi	-----AATT--AT-CAACT---AATTTTAAAGCC-----TAG----C-AACCCTA
Pabu	AACACTAT-AA-----ATAAATAACA-----AAGCAT-AA--TGA--CACT
Hial	-GTAACCCATAACCCAAAAGGAAACAAAAG-----GCA---AAAGCGTAGCGGAAC--AT
Elha	GC-----AGCCCCAC---AACAAA---AAAGCGAACAAGCCTAATGGTACC-----T
Mlcy	-GCACCACCCAA-----AAGACACAA---GCAC--AAC-AGCCA--CTG
Algl	ATAGCTAAT-----GCCCGACAGGAATAAAA---G-CTAGTTTATAATGCGTTGGTT
Ptgi	GCAACCCCACTAAACAAAAGAAATAAAAGGAAAA---CTAAGCCTAATGAAATGAT---
Alaf	ACGACCTATAAACCAATTTG-GGATAAAAAG--TACCTAAACCATATGCCA-----TCT
Nock	A--CAACTAATAAACCGACCGGATTA AAAAGTA ACTAAGCTCTG-TGATATA-----AT
Anja	AGAAACCAAGTTAACCAAAAAGGAACACAAAGGCCACGAA-----ACCCGACGTAAACT---
Gyki	-CCCTCTCTTCA-----TTCAAAGCCTG-----GGGAAACATAACGCTAAT----
Syka	AGGACCCGAAGCATTG--ATAAATAATAAAAGGCCTAACCTA---ACCAAATGTAAAAT
Opma	GAAATTTACATTTAAA-----CAAAGGAACAAAGCAAATTT-AACTCAATG--TATTAA
Comy	A-AACCAAATCTTCCA--ATA-GGCCTAAAAAATGA-----GAAAAACAAGTATTAA---
Sasp	ACCG--CTAGG---AATACAA-----ATGGACTCAATTGTGTCAA---
Eupe	AA-----ACCCCAAATG-ACCCAACAGAAC-AAAATGTTTATTAACCCAACATGTCA
Enja	GCGAC-TGAAGTGAAGCAAGTC-----CTAAATA-CCCGCAGCCTT---AT
Same	G-CGGCCCTAA-----TTGGAGCCCCAAC-----AAC-GTGATTCT
Chch	ACCACTTAAAACAA-----ACAAGTGGAACAG-----AGTGGTAAACCTT---
Grgr	-----TAAACAACCTC-----C---CCAAGGATAAG-----AACGGTATGGCAAGCA--CT
Caau	GCAA-----CTCAA--T-----AAAAATGAAAACCTTTGTGGAATA---
Cyca	GCAA--CTCAA-TAAAAAGC-----AAAAACCTTGTG-GACC-A---
Dare	-GCAAACC-AAT-----AAAAGTGATT---AACTAGTAAAAG-----A
Cost	ACAACCTACTAAATA-----AGA-AT-----TAAA-CCTAGCAGAAAA-----
Leec	ACAACCTA-----TTAA---CAAAGTATAA---ACCTAGTAGAGA-----A
CrIa	-----CAAGCAACC-----ACATAAATGGCATAAAAT--TAGTGAGTA--
Clmc	AA-ACCCA-----AATCAAAAAGAAGCTAA---ACAAAACAGCAA-----AA
Phin	AACCCCTACA-----TTAATA-----GGACAAA-----CGAAATACCAC---
Icpu	-----CAAGGACTT-----AGTCAAACCTAAA-TAGCAC--
Psto	-----CAAG-AAT-----C AAAAATAAAA---TTAAACTAAATAGCAA--
Cora	AT-----ATTTATC-----A--A--ATAAA---ACTAAAT--AGTAA-----
Eisp	TAAA---CCAGATTAATAA-----GA-----TTAAACTAAATA-GCTT-A---
Apal	AGACTAATTACCTTTA--GT----CA--AACTAAACCT-----TGC-A---
EsLu	-----TAAATAACT-----GAACTATCAGATTA AAAACA--AAGCGGCC--CT
Dape	GTAACCCCTATA-----TTAACGGGTAAA-ACAA-AGC-GGCC--CT
Glse	-----ACCCACCTCTT-----CT---ATAGGACTAAA---CACAGTGCCC----CCT
Naar	-AACCCCTCAT-----CACAGGACT-----AAACACAGTACCC-CC--T
Baoc	-----AACTCCTA---A---ACCACCAG-GAAAAACACAGT-----AGCCCT
Opso	AAACC-CTAA--ATCACAGGA-----CTAAACACATTGGCCCCT---
Alte	C-----AACCAAACCTC---A---AAGGTATAA---ACAAAGTGTGAACAT-----
Plap	ACAA---CCAAACTCAAAGGC-----ACAAACAAAGTGAAGCAT---

Plal GCTC--CCTACTCTAA-----TGGG-----AAAAGCATTATAGCCCC---
 Sami ---ACCCCCTCCATTA-----AG-A-GGGGAAAACATTGTG-----GCTCC---T
 Rere -ACACC-----CTTAGTCT-----GCTAGGAGA---GAACATTGTGGCCCT--T
 Gama A---C-----AACCCCTTGTGCGGGA-----GAGAACTTAGTGGCAC-CT---
 Onmy GCAACCTT-----GAA-----TTAACAAGTAAAAACGC-AGTAGACCCC--T
 Sasa -----CC-----TTGAAT-TAACA---AGT--AAAAACG---CAGT-GACC----CCT
 Cola GC-----AACCTTGA---G---TTAACAAG---TAAAAACGCAGTGACCCCT-----
 Dita ACCC-----CCTCG--G-----CCTACTGACGGGGACAATAACTGGCCTT---T
 Gogr -----TAACCTCTTC-----TACCAAAAA-----GGGGGCTATAGGGA-GAGACCC--CC
 Chsl ---CTACC-TATCTACCAGC-----GTAAATCCTAGGGCCC-TT---
 Atja TAAA-----ACAAA--A-----CAAAGTAATACAAACCAAGTAGATACT---
 lido A-TAC-GCC-----AAAATAAAGGACACTAA---ACCAAGTAG-A-----CAC
 Auja A-----CAATCA---CCAT---AAAGAGAACT---AACACAGTGAACCCTC-----
 Chag GCAAACCTCACC-----ACAAATGAGCTGACTCCCGATGGTAAGACA
 Hami AGCAACCCCAT-----AAACGGCTAC-AAACAA-CGTTAA-CC--C
 Saun AACAAACCCAT-----ACCA-----GTGGCCATAGAACAAC-----GTGGAATCC---
 Nema GTAC--CCTAATTTAA-AAC-----A-----ATAAACAAAGTGTACACC---
 Disp -----CAAAAACC-----CCCTAA-AAGGAAATGAACAAAA--TGAGCT--T
 Myaf AT-----ACCCCAA---TA-AAGGAACAAAACAAGATGGTCAT-----
 Lagu -----AGAGGACA-----TCAAGCCAGAAAC--AGCC---ACAGCCTAT--C
 Trtr AGTAAATTGAT-----ATTACCTATTTAAACCCCGG-CATCCCT---
 Zucr -GTATAAACCCC-----AACTATATAA-----AACACGGCTACCCT----
 Pxja AACACCTCAAC-----ATAAAGAAA-----AGAACTAAGTGTTTATC---
 Pxlo ACACC-TCAG--CACAAAGAA-----AAGAACTAAGTGTTTACC---
 Pctr ACACTCAA----CAAA--GGCA-GAA----CTTAATGG-----ACC-C---
 Apsa A-GATTCTTAAATCA---AAA----A-GAAAGAGCTAAATAG-----GC--C---
 Cabe AACACCCCTCC-----CAA----GGGGAC--TA-GCACGCT-GACCCT---
 Bzze AACACCCCTGA-----TTATA-GGA--CTAAACTGATTGGGACC---
 Siim ACGAACCTAAA-----TCAACAAGA--TGACTATACTGAAGACC---
 Ctru A-----GACCCCT-TA---CAAAGGAGCA-----AA-CTAAATGACCCC-----
 Dpbr AACAAACCTGACA-----AA----GGCAC-GAACTAAATGG-TCCC----
 Caki -----AAAATGAG-----CTT-----TAATACAAGAACAACTTAA--TGGGAC--T
 Phja -----TTAGCATAC-----TATAATAACAGTAAAAATCTAGTGAAAAA--T
 Brsp AATATTCTG--CATCCAGTAAAAACTTAA-----TAATTT---
 Gamo AC-----ATGC-TGT--GAT-AACAG--TAA--AACTTAGTGATATT-----
 Lolo ATATACTA--GAATAACA-GT-----AAAACTTAGTGATATT-----
 Batr -----T-AAAACA-----AACCACC-----
 Prmy -----GTTTCA---AAATACACCAA-----
 Loli AAAATCCTG-----CACCAAGGCCCTAAA-----CTAAATAATTCC---
 Loam AACC--CCCGA-ACAAAGGA-----A-----TAAACAAGATGAAAG-----
 Chab -GTACCCCTAAT-----AAAGGTGA---AAAC-----AGAGTATGCTA---C
 Chto -----CAAGTACCCC-----T-AATAAAGGT-----GGAAACAGAGTATGCTA--C
 Majo -----CAAGCACC-----TCCAGTAA-----GTAGAGATGAAACAAAATGAATA--C
 Hlst A--AC-ACA-----TTAATAAAGTGAACAAA-----A--ATGGATA-----
 Clpe AACCCCTTATACTAC--GCGG-GAACACAAC----GA-----GCC----CC
 Mlmr -CTAGTCTTAAC-----ACAA--TACA-----GAACCAAAAAAGACC--CC
 Crcr -----A-ATACCTCCCTCA---AATAG-----GTAACAA---CAAATGAA-C---C
 Muce ATACCTCTCTCAAACAG-----GTAACAACAAAATGAACC
 Bege TAT---AAT-----CT-GATTAAGAACAAA----ACCAATTGGAC-----CC
 Mela -----GCTTCCTC-TAATG---AAAGAATAAGAC-----TAATATGAATCC----
 Hats AAATCCCCCGG-----ATAAGGGAA--AG-----AAC-TAATTAGA---CCC
 Orla -GGACAAC--AA-----CAAATTACTC---AA-----ACAAATTGGCTA--C--

Cosa TTAACCTAACC---CA--AATA-GATTAACTAATTG-----G-----CTTTC---
Exsp TTAG-----ACCTAG--T-----TAAAGGA-----ACTAAGCC-AATTGGGTACC---
Depa CTAAA-CCTTACTTAACAAGA-----ACAAACCAATTGGA---ACC
Rima -----CCT-----T-AAT-----AAAA-----CTTTTTAAAGC--CCC
Fuol -----TAAA-GTA-----TTGATTTAAAACAATTTAAAACAAATTGAA--TTC
Gmaf -----AAAACATTCT-----TTTCA-AAAAATGA-----AACC---AACT--GACCCC
Xeei AACC-----CCTTA--T-----TTACA-----AGATAAAA--CCAA---TTGATTCC
Pros -----TTCACCCCA-----A-AA-----TAAAATTGAGGGGACAC--AATGGCCCC
Scmi CC-TGCC-----AAAAATCAAAGGGGCA-----ATAAAAT-----GGCACC
Rolo -----CAAACACC-----CCAAAATAAAGGG---GCAAATCA-A---GTGGCCCC
Cere AGTAACTTCAA-----ATAA-----AAAGT--TATATTT---TTT-GCCCC
Daga -ATGCTTTCAAT-----T-----AAAAAAGTT---AACTTGTGCCCC-T--G
Anco -----TAACCTCCAAACA---AGGACTAAA-----CTAAGTGA---TATCC
Dmve AGCACCCCC-----CGACAAAGGGTCAAA-----CCAAG---TGAAGCTC
Dmar AGCAC-CCC-----CCGATAAAGGG--CTAA-----ACCAAGTGAACCCC
Anka ---TAACC-----ATCAAACAAGAGAGTAA-----ACTA-----AATGAAAATC
Moja AAGA--AACCCCA-----ACAAGG---AACTAACT---AAGTGACGCC
Hoja ATAACTTTCAAAC-----AAGAAATAAACTAA---GT-GGAACCC
Bede GACT--CCAGAATTAACCG-----AGCAATAAAATGACAATCC---
Besp A--GACTCCAAAATTA--AAAC-GGAGCAATAAATGAC-----AACCC---
Mysp ACAA-----CCCTG--A-----ACAGAGGACAAA-----ACA-CCAAAGGATCC---
Osja ACAAC-CCAA--AATAAGGA-----CAAAACATAGGGGATCCC---
Sgro -ACAGTTAAAGAC-----AAAAACCA-----AACCCAAATGGACTT--TCTG
Pzpa AATGCTTTAA----AACAAAAAC--AAACC----CA-----ACGAGC-CC---
Zeja A-----TACTTTTACA---CAAGAAAGAA--AAG---CC-----CAATGGCCCC
Zzne AAAA--GCT-----TTAAATTAAAAAAGAA-----A---ACCCCA--GTGATTC
Zefa A-TACTTTTGATTAT----AAA-AGAAA----AGCTCAATGG-----ATCC
Acni A--TACTT-----TAAGACAAAAAGAAA--AGC-CCA-----ATGGCCCC
Ncrh -----AAAATACT-----TTAAGACAAAAA-----GA-AAAGCCCAATGACCC--C
Agca T-----ACCCCTCC----ACATAAGA--GGATTAACC-AA-----ATAACCCT
Hydy -TGAGCCT-----GAAC--AAAGGACTAA----ACAGAATG-----GACCC
Gsac T-----GACCCTAAT---AAAG-GATT----G----ACAAG-----ATGGAACC
Pevo -----CAATCC--CC-----TTAAA-----TAAAAGACTAAACC---AAATAACAC--C
Hiku AACAAATTAACACCA-----TATAAAAGGTATTTAAA----ACAA-----TAACC
Inpa CCCTCAGCCCA-----ACAAAGGCCTTG----AACTA-AACAAC---CCC
Auch AATTAGTCTAGACCAACAGAC-----AAGACT-----CGACTTGGACCCC---
Fico A-CACCC-CCGATAA--GGCC-TCCAAA-CAAATA----G-----GC-CC---
Macs TCACCTCCAAA-----A-AAGGA-----GTAAG-ACAA-AAC-GA-A--CCC
Moal A-----ACCTTGTC----ATAACAAGTTATTAACC----AGTGA-----AACCC
Syma -----ACATTA---CACA--AACATTCA-----TCT
Maf r AACTTA-----CACG--ACCC-AAGCTAAAAG-----A-----ACCC
Dcpe -----TCAGCAC-TT-----CAACACAAAGAATAAACTCTG-----TGAGCACAC--T
Dct i -----TCAACT-----TCAAATAAAGAATAAAAC---TTTG--TGAACA--CACT
Heh i A---TAACCCCAATAAGGGC-----CTG----AACT-AATGGAAT-CC---
Stam AACACCCTTC-----ATAATAGGC-TAAACCAA-----ATGAAT-CC---
Hog i A--CAATC-----CTAAATACAGGACCAA---A-CAAATGAAAG-----C
Erzo CA-----CCCCCTTA---AT--ACCGG---ACTA-----AACTAAATGAAGCC
Hxot AC-----ACCCCCA---AT--AAGGG---ACTA-----AACCAAGTGAGCCC
Core -----TAAGCACCC-----CAAACAA-----GGGACTAAACCAA-GTGGGCC--C
Apve AGCACCCCG-----ATAA--AGGACTAAA-----CCAAGTAAACCC---
Lat j G-ACACCCTGA-----ATAAAGGAC-TGAAC-----TT-ATTGACC--ACC
Laja -----CAAGCAAC-----CCCTGACAAGGGGTCA-----AACCAAA--TGCACC--C

Syja ACAACCCT-----AAAC---ACAGGGCCAA-----ACCAGACGAATA-----C
 Epme A-ATACCCCAA-----ATATGAGG-----CACGAATAA- ACTGAAT-- TTC
 Grse -----CCACTCTC-CCACA---AAGAGAA-----AAAGC---AAAT-G----ATCCCC
 Clja -----TAAGGCCCC-----CTAAA-AAGGAATAAA-----ACTTAAATACCA---C
 Ogcy -----CAAAAACCCT-----A-AACAAAAAAA-----AGAACTTATAGAAAACCC--CC
 Plna AAAC-----TTTCC--A-----TAA-----AAAGACTAAA--CCAACGGCCCC---
 Lema -ATACCCCAAAC-----ACAGGGCCG-----AACTAAATGA---GC--A
 Etzo -----TAAACTC-----CCTGAC-----AAGGGACAAAACCAG-GTGAATC--C
 Apse -----TAAGTAACC-----CCATATAAGGGC-----CTGAACC--TAGTGGCTA--C
 Epde AACACCCTTG-----AACAAAAGGACCAA-----CCAAATGAAACC---
 Slja AAAC---ATCCCCT-----GTGAAAGGG-----TTAAACTGTATG-----GCCAC
 Bsja A-TAACACCAAAC---AAAG-GACCAA---ACAACACAAC-----A-CTC---
 Ecna T-AAACTCTAA-----ATTAAGAATTGAACCT-AATG-GAATAC
 Cohi -----ATAACCCCTTGTTA-----AAGGAGTAAATC---TATGCTAA---TCC
 Caar AACACCCTGAACAC-----AACAGCCCAAACCTAATG---GCTTCC
 Came AACACCCCC-----AATAAAGGCC-CAAACCTA-----ATG---ACCACC
 Mema AACAACCCTAA-----ATAAATGGA--TTAA-----ACCAA---ATGAGAC
 Lenu AAAACCCCTAACA-----CACAGAAGA-----AACTAAAT---GGATGAC
 Brja ACACCCCTGGACAAAG--GACT-TAACTAAAG-----GA-----ACCA
 Plma AACATCCCTA-----GATAAAGGGC-TAAACC---AA-----ATGAA-ATA
 Emst A--AC-ACC-----CCCGAATAAGGGGCT---AA-----AC-----CAGATGAGACC
 Ptti AAAA-----CCCTAA--A-----ACAAA-----GACCAAACC-AAATGAAC-CC
 Losu GCACCCATTAAGGAC--T---AAACTTAA---C---GG-----CCCC-
 Geoy ATACT-CTTA--GACAAAAGA-----CCGAACG-GTATAAACAC
 Dipi ACAC--CCCTAATCAA-AGGG-----CCAACTAAATGGGTACC
 Pama AGCACCCCTTA-----ACAAAGGA-----A--AAAACCAA---ATGAA-GCC
 Leob A-CCTTCTCCAACAA---GAAA-AGAAAA-----ACTAAATAG-----ACTCC---
 Neba AT-----ATATACAG---AAC-AAAGA---TAT---CCAAAT-----AAGGAATAC
 Pdpi -----CACTAAC-CC-----CAAATAAAGGGCAC-----CAACTAATAAGAC-C--C
 Nimi -----AAACCCCC-TAACA---AAGGACTGA-----AC---TAAC-----TGAACCC
 Uptr -----TAAGCCTACC-----CTTGATAAAGGACTAAAC-----G---AAATGAGAC--C
 Pesc -TCCCCAAGTA-----TAAATGACA-----AAACT-----TAATG-ACCC--C
 Baar -----CTGTCCCCTAAACA---AAGGGCCAAA-----CCTAA-----TGACCC
 Moar -ACACCCCAAACAA-GGGGCCAAACCAG-----ATGAA-CCC
 Toja AGCAACCCTAAAT-----AAGGGACTG-----AACT--AACTGGCCA--C
 Chau AGCACCCCTCAA-----ATAAGA-----GGCT-AAACTC-AGTG--TT-CAC
 Chse A--CACTC-----CAGATCAACGGACCAA---ACTAATTAATTA-----C
 Enar ATACCTTC-----TCAC---AAGGACCAA---ACAAAATAATCC-----C
 Hpty -AGACCCCAAAA-----CAAGGGGT-----AAACCAAATGAACCC---
 Nana ACCTCCCCCT-----CATACGGGAA---CGAACAAAAA-----CACC
 Mcst A--GC-ACC-----CCTGAATAA--AGGACTAA-----ATGTATTGAAACC
 Rhox A-CACCCCTAAA--CA--AAG--GACTAAACCC--CGTGA-----ACAC
 Opfa AGCACCCCAA-----ATTAAGGG-----CCAAACCAGAG-----GAGCCC
 Paar TTAC--CCCG--AATAAGAA-----T-----AAAGCCAAA---CTGACTCC
 Gozo AACACCCCTAG-----AAAA-----CGGACT-AAACCA-A--ATGAG-ACC
 Ackr -----TAAAAGAATC-----T-----AACTACAGA--ACAGAACTAAATGACAT---C
 Elev ACAC--CCCTACT-AA-AGGA-----CTAAA-----CCAAA--TTG---ACCC
 Trdu -----TAAGCACCC-----TCAAATAAAGAACA-AA-----ACT--CATTGACCC--C
 Amoc A-AATCCCAAT-----TAAAGGACT-----GAACACTA-GAGTG--AGACC
 Hame A-TACCCCTAAACA-----AAG-GACTAAAC-----TAATTA-----ACCC
 Chso A--ACCCCTCCCA--CAAGAGG-----CCAACT---AGATG-ACCC
 Lyto ----TAACCCTGAATAAAGGC-----TTA-----AACCAAGT-----GGAACC

Encr ATAG-----TCCTGA--A-----TAAAGGAGC-AAACC-----AAG---TGGAA-TC
 Bvar A-----TAAATCTAATT-----AAAGGCCTAAAC---T-TA-----CAAACCCC
 Noco AAAG--ACC-----CCCTAATAAGGGCACAA----AC-----CAAA--AGGACCCC
 Chsp -----CGCACATCC-----CCACATAACGG-----GACAACCAAA--TGTAACCC
 Arja GCAC-----CCTTG--A-----TAAAGGACTAAACCAA-----ATGAGACC
 Pase CAACCCCTTAA-----AGGATACT--AGAGCT-----TGAAAGACCAC
 Trel GTCAATTAACCCC-----CACACGGACTG-----AACTAA-----TTGGATCC
 Lifa --TACCTACCA--CA--AAGA-GATCTAACCT---ACCGA-----CCTC
 Acur TGCCTATTACT-----AATAGAGGACAA-AC-----AA-AT---GAGACCT
 Ampe -ACACCTCCCA-----TAAGGAGCCC---A-----AACCAA---TGGTCCC
 Urja AATTACC-----CTTTACAAAGGATCAA----ACTAAAT-----GTTTAGCC
 Enet C-----TACCAAAGCT---TGATTAACAGCT---CACACCCTATGG--CCATTCCCC
 Ptbr GCGAA-CTTAC-ATGAAAAGA-----ATAACA-ATAAGAA---C-TTA
 Safa TAAACTCTTAATT-----ACAAGCT-----AAAGCCATAAGGA---CC
 Icae -ACACCCCAA-----ACAAAGGGTT---AAA-----CCAAATGAACA-C--A
 Asmi -GCCTTTTTAGATT-----GCTAGACTA---TG-----TATTTTA-CCTC--C
 Foal ---CTTT-----AAATTAATAA---CTGTG-AAC-TAATTA-----AACC
 Drze -TTAATACTAAC-----AACAGAAC-----AAACAAATTA---GATAC
 Rhas ----TAAACCCC-----TAAACAAAAGAC-----TAAACCAAATGACTC---C
 Elac TTA---AAC-----CTTAATTAAGAACA---GCC-----AGACACCCC
 Kugu ATAGATTA-----AAAATAAATAAACCTAA-----ACCA-----GCAATCC
 Plor -ACACACCCAAAC-----ACGGAACCA-----AACTAAAT--GA---TAC
 Sgun A---CACCCCTTAATAAGAGA-----CTAAA-----CAA---GATGAAAC--C
 Zaco ACA-CCCC--TAAACAAAGGA---CTAAACCA-----A--GTGAAAC--C
 Zbfl -----TAAGTACC-----TCTAATAAAGAACCAAA-----CCAGA--TGAACC--TC
 Spba GCATA-CCTA--AATAAGGA-----CTGA-----GCCTAA---TGAAAC
 Game ACACCCCCAGA-----C-AAAGGGTTAA-A-----CCA-AAT---GAACCG
 Thth ACAC--CCCTAAACAAAGGA-----CTAAACCA-----AATG-----AATCA
 Xigl AACACCCCA-----AATAAG-GGACCAA-----CT-----AAATGACCCC
 Hyja -----CTATCCCTACACC---TGGAATTAAC---C-----TA---TTGAATCA
 Psan TCTAC-CCC-----TAAACCCTGAGGACTAA---AC--CT-----ATTGAAACA
 Cupa -----TAAACAC-CC-----TTAATAAAGATTAAGCC-----A--AATGATCTA
 Mpch ATAACCCC-----AAAT--AAAGGAAAA---ACC-----AAAAGAACAAC
 Char -----ACACCC--CAGTA---AAAGGGCAAAAC---CA-----A---AAGGACCC
 Pser ACAC-----CCCGA--A-----CTAAAGGAATAAAC--T-----GATTGGATGC
 Prol -ATACACCCAGC-----TAAGGGCCCT---GAA-----CT--AA--ATGAAAC
 Plbi -----CAAGTACCC-----C-AGCTAAGGTCCGAAC---A-----AATGG--AGCC
 Calu GGATCCACCTAAGGG--AA--AGAATAATT-----GGACCC
 Papa AACAC-CAC-----CAAACAAAGCAAAGTGA-----ACCA--TGGTGCC
 Suf r -----AGT-----AACCCTTATAAAGGA-----ACTA-----AACATACGTAAC
 Stci ATCAA-CCC-----CTAATAAAGGA-CTTA---AC-----CTTATGACCAC
 Taru -----ATAAACCTAATA---AAGGGAATAAAC---CTAGTGA-----A-CC
 Rala AACACCCCAAATTT-----AAAGGACTAAACC---AAA-----TG-AGCC

	44'	45	45'	46	46'								
Scca	AATTTAAC	TATTTT	GGTTG	GGG	TGACC	-AA	GGGG	AAA	-AATGAATC	CCCC	TTA	-TCGAC	
Muma	AACTTAAC	TGTTTT	GGTTG	GGG	TGACC	-GA	GGGG	GAA	-AACAAATC	CCCC	TCA	-TCGAT	
Erca	TGGCTAAA	TGTCTT	AGTTG	GGG	CGACC	-AC	TGAC	AAC	-AAATAAAC	CTCA	GAG	-ATGAT	
Pose	GGCCATAA	AGTCTT	AGTTG	GGG	CGACC	-AC	TGAC	AAC	-AAATAATC	CTCA	GCG	-ATGAT	
Actr	GATCCTAA	TGTTTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	GAC	-AAAAAAGC	CTCC	ATG	-TCGA-
Scal	GATCCTAA	TGTTTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	GAC	-AAAAAAGC	CTCC	ATG	-TCGA-
Posp	GATCCTAA	TGTTTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	GAC	-AAAAAAGC	CTCC	ATG	-TCGA-
Atsp	GGTCCTAA	TGTTTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	AAA	-AACAAAAC	CTCC	ATG	-TCGA-
Leoc	GGTCCTAA	TGTTTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	AAAA	-ATA-AAAC	CTCC	ACG	-TCGAT
Amca	TGATTCTA	CGTTTT	TC	GGTTG	GGG	CGACC	-AA	GGAC	AAA	-AACAAACC	CTCC	ATG	-TCGAC
Osbi	ACATACAA	CATCTT	TC	GGTTG	GGG	CGACC	-AT	GGAC	GAC	-AAAAAAGC	CTCC	AAG	-AAGAA
Pabu	GACCCACT	TGTCTT	TC	GGTTG	GGG	CGACC	-AA	GGAC	GAAA	-ACA-CAGC	CTCC	TAG	-AAGAA
Hial	GGACTGAA	TATCTT	TC	GGTTG	GGG	CGACC	-GC	GGAC	GAA	-AACAAAGC	CTCC	ATG	-TGGAC
Elha	GGCCACGA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGAC	GAA	-AACCTAGC	CTCC	ATG	-TGGAC
Mlcy	GCCCCACA	TGCCTT	TC	GGTTG	GGG	CGACC	-GC	GGAC	AAA	-AACAAAAC	CTCC	ACG	-TGGAC
Algl	GATTGGAT	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGAC	GAG	-AAAAAAGC	CTCC	ATG	-TGGAG
Ptgi	GGCCGGA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGAC	GAA	-AAAACAGC	CTCC	ATG	-TGGAA
Alaf	GGCTAAAA	TGTCTT	TC	GGTTG	GGG	CGACC	-TC	GGAC	GAA	-AAACAAGC	CTCC	GCA	-TGGAC
Nock	GGCCAGAA	TGTCTT	TC	GGTTG	GGG	CGACC	-TC	GGAC	GAA	-AAACAAGC	CTCC	GTG	-TGGAC
Anja	GATCCAAA	TGTCTT	TC	GGTTG	GGG	CGACC	-AT	GGGG	GAG	-AAAAAAGC	CCCC	ACG	-AGGAA
Gyki	GATCAATA	TGCCTT	TC	GGTTG	GGG	CGACC	-GT	GGAC	GAG	-AGAAAAGC	CTCC	ATG	-TAGAA
Syka	GACTTATA	TGCCTT	TC	GGTTG	GGG	CGACC	-AT	GGAC	GAA	-AACAAAGC	CTCC	ACA	-TGGAA
Opma	TGACCACA	TGCCTT	TC	GGTTG	GGG	CGACC	-AC	GGGG	GAA	-AACAAAGC	CCCC	GAA	-TGGAA
Comy	TGATTAAT	TGCCTT	TC	GGTTG	GGG	CGACC	-AC	GGGG	AAA	-AATAAAAC	CCCC	ACA	-TGGAA
Sasp	TTAGTGCA	TGTCTT	TC	GGTTG	GGG	CGACC	-AT	GGGG	GAT	-AAAAAAGC	CACC	ATA	-AAGAT
Eupe	TTGACTAA	TGTCTT	TC	GGTTG	GGG	CGACC	-AT	GGGG	GAA	-AAGAAAGC	CCCC	ACA	-CAGAC
Enja	GGTAATGT	AGTCTT	AGTTG	GGG	CGACC	-AC	GGGA	GAA	-AGTAAAGC	TCCC	AAG	-CAGAC	
Same	GGCATAAG	TGTCTT	TC	GGTTG	GGG	CGACC	-AC	GGGA	GATA	-GCA-CAGC	TCCC	GAG	-TGGA-
Chch	GGTCCGCC	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGG	CAA	-AGACAAAC	CCCC	ATG	-TGGAA
Grgr	GGCCTGCC	TGTTTT	TC	GGTTG	GGA	CGACC	-GC	GGGG	GAG	-AACCGAGC	CCCC	ATG	-TGGAG
Caau	TGAGATTT	TACCTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	GAA	-AAAAAAGC	CTCC	AGG	-TGGAC
Cyca	TGAGATTT	TACCTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	GAA	-AGAAAAGC	CTCC	AGG	-TGGAC
Dare	TAAACCTC	TACCTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	TAA	-AAAACAAC	CTCC	AAG	-CGGAA
Cost	TGGAGCTT	TACCTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	AAA	-AAATTATC	CTCC	GAG	-TGGAT
Leec	TGAAGTTT	TACCTT	TC	GGTTG	GGG	CGACC	-AT	GGAC	AAT	-AAAAAATC	CTCC	AAG	-TGGAA
CrIa	GTGGAATT	TACTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	AAA	-AAAAGATC	CTCC	GAG	-TGGAC
Clmc	CTGGCTGA	CGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGG	TAA	-AACAAAAC	CCCC	ACG	-TGGAA
Phin	CTGACCAA	AGTCTT	AGTTG	GGG	CGACC	-AT	GGGG	AAA	-AACAAAAC	CCCC	ACG	-TGGAA	
Icpu	CTGATCCT	AATCTT	TC	AGTTG	GGG	CGACC	-AC	GGGA	GAA	-AATAAAGC	TCCC	ACG	-CGGAC
Psto	CTGATCCC	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGA	GAA	-AACAAAGC	TCCC	ACG	-CGGAC
Cora	CTGATCAT	AATCTT	TC	GGTTG	GGG	CGACC	-AC	GGAA	TAA	-AAACAAC	TCCC	ACA	-TGGAC
Eisp	TTGGTCCC	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGAC	GAA	-AACAAAGC	CTCC	ATG	-TGGAA
Apal	CTGGCCTA	CGTCTT	TC	GGTTG	GGG	CGACC	-AC	GGAC	AAA	-AACAAAGC	CTCC	GCG	-CAGAA
EsLu	GGCCTACA	TGTCTT	TC	GGTTG	GGG	CGACC	-AC	GGGG	GAA	-AACAAAGC	CCCC	ACG	-AGGAT
Dape	GGCCACA	TGTCTT	TC	GGTTG	GGG	CGACC	-AT	GGGG	GAAA	-ATA-AAGC	CCCC	ACG	-AGGAC
Glse	GACCTTAA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGAC	GAA	-AACTAAGC	CTCC	ATG	-TGGAC
Naar	AGCCAACA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGG	GAA	-AATCAAGC	CCCC	ATG	-TGGAC
Baoc	CGCCAACA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGG	GAA	-AACCAAGC	CCCC	ATG	-TGGAA
Opso	AGCCTGAA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGG	AAA	-AATTAAC	CCCC	ACG	-TGGAT
Alte	GACCAACA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGG	GAG	-AAACAAGC	CCCC	ACG	-TGGAC
Plap	GACCAGCA	TGTCTT	TC	GGTTG	GGG	CGACC	-GC	GGGG	GAA	-AAACAAGC	CCCC	ACG	-TGGAC

Plal GTCTCTCC TGTCTTC GGTTC GGG CGACC -GC GGAC GA - -CAAAAAGC CTCC ATG-TGGAC
 Sami GCCTCCCC TGTCTTC GGTTC GGG CGACC -GC GGAC GAT - -AGCAAAGC CTCC TTG-TGGAC
 Rere GTCTCACC TGTCTTC GGTTC GGG CGACC -GC GGAC GAC - -AAAA-AGC CTCC ATG-TGGAC
 Gama ATCTTGAC TGTCTTC GGTTC GGG CGACC -GC GGGG GAA - -AAGACAGC CCCC ATG-TGGAA
 Onmy AGCCCATATGTCTTT GGTTC GGG CGACC -GC GGGG GGAA -AATTAAGC CCCC ACT-GTGGAA
 Sasa AGCCCATATGTCTTT GGTTC GGG CGACC -GC GGGG GAA - -AACAAAGC CCCC ATG-TGGAA-
 Cola AGCCCATATGTCTTT GGTTC GGG CGACC -GC GGGG GAA - -AACAAAGC CCCC ATG-TGGAC
 Dita CTCCCACT TGTCTTT GGTTC GGG CGACC -GA GGAC GAG - -AAGA-AGC CTCC ACA-CGGAC
 Gogr TTCCTAAG CGTCTTT GGTTC GGG CGACC -AC GGGG GAC - - -AAAAGC CCCC CCG-CGGAC
 Chsl AATCTACT TGTCTTT GGTTC GGG TGACC -AC GGAC GAA - -AAATTAGC CTCC ATG-AGGAC
 Atja GCTTTGAA TATCTTT GGTTC GGG CGACC -AC GGGG GAA - -AAGTAAGC CCCC ATG-AGGAC
 lido TACTTTAA TATTTT GGTTC GGG CGACC -AC GGGG GAC - -AAATAAGC CCCC ACG-AGGAC
 Auja TGTTGAAA TGTCTTT GGTTC GGG CGACC -GT GGGG AAA - -ACAA-AAC ACCC ATG-TGGAC
 Chag CCGTTTAG TGTCTTT GGTTC GGG CGACC -GT GGGG AAAA -GAA -AAAC CCCC ATG-AGGAC
 Hami TGCTGAAC TGTCTTC GGTTC GGG CGACC -GT GGGG TAAA -ATT -AAC TCCC ATG-AGGAC
 Saun TGCTGAAC TGTCTTC GGTTC GGG CGACC -GT GGGG TAT - -AAAAAAC TCCC ATG-AGGAC
 Nema CGCCGAAA TGTCTTT GGTTC GGG CGACC -GC GGGG AAA - -GAAAAAAC CCCC ACG-TGGAC
 Disp CGCTGAAA TGTCTTC GGTTC GGG CGACC -GC GGGG AAA - -AACAAAAC CCCC ACA-TGGAC
 Myaf TGCTGGGA TGTTTTC GGTTC GGG CGACC -AC GGGG AAA - -AACAAAAC CCCC ACA-TGGAC
 Lagu TTTCCCAA TGCCCTTT GGTTC GGG CGACC -AC GGAC ATA - -AACAAAAC CCCC GCG-TGGAC
 Trtr TATCTAAA TGTCTTT GGTTC GGG CGACC -GC GGAC ACAA -ATC -TAAC CCCC GCG-TGGAT
 Zucr CCCCTAAA TGTCTTT GGTTC GGG CGACC -GC GGAC ATA - -AACTAAAC CACC GCG-TGGAT
 Pxja TATCAAAG TGTTTT GGTTC GGG CGACC -GC GGGG AAA - -ACA -AAAC CCCC ATG-TGGAC
 Pxlo TATCAAAG TGTTTT GGTTC GGG CGACC -GC GGGG AAA - -A -CAAAAC CCCC ATG-TGGAC
 Pctr CGGGAAAC TGTCTTT GGTTC GGG CGACC -GC GGGG GAT - -GAAA -AGC CCCC ATG-TGGAA
 Apsa TTAGTAAG TGTCTTT GGTTC GGG CGACC -AC GGGG GAC - -AATAAGC CCCC ATG-CGGAA
 Cabe TCCTCATA TGTTTTC GGTTC GGG CGACC -AA GGGG TACA -ACG -GAAC TCCC ACG-TGGAT
 Bzze TGCCCTAC TGTCTTT GGTTC GGG CGACC -GC GGGG AAAA -ACA -AAAC CCCC ACG-TGGAA
 Siim TTCCATAA TGTCTTC GGTTC GGG CGACC -AC GGGG TAAA -AAA -CAAC CCCC ACG-TGGGA
 Ctru CGTCCTAA TATCTTT GGTTC GGG CGACC -GC GGGG TAA - -CATAAAC CCCC ATG-TGGAG
 Dpbr TATCCTAA TATCTTC GGTTC GGG CGACC -GC GGGG CAA - -CACAAAAC CCCC ATG-TGGAA
 Caki TATTTAAA TGTCTTT GGTTC GGG TGACC -AC GGGG CAA - -AACATAAC CCCC ACG-AAGAT
 Phja TATTGAAG TGTCTTT GGTTC GGG CGACC -AT GGGG TAA - -AACATAAC CCCC ATA-CGGAC
 Brsp TATTC AAG GGTCTTA GGTTC GGG CGACC -AC GGAC TAA - -AATAAAC CTCC ACG-AAGAA
 Gamo TACTGAAG TGTCTTT GGTTC GGG CGACC -GC GGGG TAA - -AACACAAC CCCC ATG-TGGAC
 Lolo TATCGAAG TGTCTTT GGTTC GGG CGACC -GC GGGG TAA - -AACACAAC CCCC ATG-TGGAC
 Batr TGAGCTTC TTCCTTT GGTTC GGG CGACC -AT GAGA AAT - -AAAACAAC TCTC ATA-AGGCA
 Prmy CTTACGCT TACTTTC GGTTC GGG CGACC -GT GAAC AAC - -AAAATAAC CTTG ATA-AGGAA
 Loli TGACCTGA CGTCTTC GGTTC GGG CGACC -GC GGGG GAA - -AGAAAAAC CCCC ACG-TGGAC
 Loam CTACCCTA TGTCTTT GGTTC GGG CGACC -GC GGGG CAA - -AAAGTACC CCCC ATG-TGGAA
 Chab TGTCCCAA TGTCTTC GGTTC GGG CGACC -AT GGGG AAA - -TAAGAAAC CCCC AAAGTGGAA
 Chto TGTCCCAA TGTCTTC GGTTC GGG CGACC -AT GGGG AAA - -TAAAAAAC CCCC AAAGTGGAA
 Majo TCACCTAA TGTTTT GGTTC GGG CAACC -GC GGGG TAA - -TAGAAAAC CCCC GCG-TGGAA
 Hlst CCTCTTAC AGTTTTC GGTTC GGG CGACC -GC GGGG TAA - -CAGAAAAC CCCC ACG-TGGAA
 Clpe TGTCTGG TGTCTTC GGTTC GGG CGACC -AC GGGG TAA - -TAGATACC CCCC GCG-CGGAA
 Mlmr TGTTC AAT TGTCTTC GGTTC GGG CGACC -AC GGGG CAA - -TACAAAAC CCCC GCG-CGGAA
 Crcr CTGTTCCA CGTCTTA GGTTC GGG CGACC -AC GGTC AAC - -AGAAAAAC CCCC GCG-TGGAC
 Muce CTGTTCCA CGTCTTA GGTTC GGG CGACC -AC GGTC AAC - -AGAAAAAC CCCC GCG-TGGAC
 Bege TGCCCCA TGTCTTT GGTTC GGG CGACC -GC GGGG GAA - -CAAAAAGC CCCC ATG-TGGAG
 Mela TGCCCTAA TGTCTTT GGTTC GGG CGACC -GC GGGG CAC - -CAAAAACC CCCC ACG-TGGAA
 Hats TGTTCTAA TGTCTTT GGTTC GGG CGACC -AC GGGG AAAC -GAA -AATC CCCC ATG-TGGAA
 Orla TGTTTTTA TGTCTTT GGTTC GGG CGACC -GC GGGG AAA - -TAAGAATC TCCC ATG-AGGAT

Cosa TGCCCTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - TAAAAAC CCCC ACG - TGGAA
Exsp TGCCCTAA TGTCT TTTGGTTG GGGCGACC -AC GGGC AAA - - CAAAGAAC CCCC ATG - AGGAG
Depa CACCTTAA TATCT TTTGGTTG GGGCGACC -GC GGGC CAA - - TAAAAAC CCCC ATG - TGGAA
Rima TGCTCATT TATCT TTTGGTTG GGGCGACC -AC GGAC A - A - - AACTTATC CTCC ACG - CTGCA
Fuol TGCCGCAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACCAAAC CCCC GCG - CGGAA
Gmaf TGCTCAA TGTCT TTTGGTTG GGGCGACC -CC GGAC TAA - - TAAAAAC CCCC GAG - CGGAC
Xeei TGTCATGA TGTCT TTTGGTTG GGGCGACC -AC GGGC AAA - - CAACCAAC CCCC ACG - TGGAG
Pros TGCTCAA TGTCT TTTGGTTG GGGCGACC -CT GGGC AAA - - AACACAAC CCCC ACA - TGGAA
Scmi CCGCTCAA TGTCT TTTGGTTG GGGCGACC -CT GGGC AAA - - AACGAAAC CCCC GCG - CGGAA
Rolo TGCTCAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AATAAAC CCCC ACG - TGGAA
Cere TGCTTGA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAAT - AAA - TAAC CCCC ATG - TGGAT
Daga CTTTTAAG TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - - GCAAAAC CCCC ATG - TGGAA
Anco TGCCAGAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACCAAAC CCCC ATG - TGGAA
Dmve TGCCCCAG TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACTAAAC CCCC ATG - TAGAT
Dmar TACCCCAA TGTCT TTTGGTTG GGGCGACC -AC GGGC AAA - - AACCAAGC CCCC ACG - CGGAC
Anka TGCCAGAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AGCAAAC CCCC ATG - TGGAA
Moja TGCCAGAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - GACTAAAC CCCC ATG - TGGAA
Hoja TGCCAGAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACACAAC CCCC ATG - TGGAA
Bede TGCTCAA TGTCT TTTGGTTG GGGCGACC -AT GGGC AAA - - AACAAAAC CCCC ACG - TGGAA
Besp TGCTCAA TGTCT TTTGGTTG GGGCGACC -AT GGGC AAA - - AACGAAAC CCCC ACG - TGGAA
Mysp CGCCAAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AATTAAC CCCC ACG - TGGAA
Osja CGCCAAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACAAAAC CCCC ACG - TGGAA
Sgro CCTGATTA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACAAAAC CCCC ACG - TGGAA
Pzpa TGCACAAC TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACAAAAC CCCC ACG - AGGAC
Zeja CGCACAAC TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACAAAAC CCCC ACG - AGGAG
Zzne TCCACAAC TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACAAAAC CCCC ACG - AGGAT
Zefa TGCACACC TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AATAAAC CCCC ACG - AGGAT
Acni TGCACAAC TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACAAAAC CCCC ACG - AGGAC
Ncrh TGCACAAC TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - AACAAAAC CCCC ACG - AGGAC
Agca TACCTCTA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - TAAAAAC CCCC ACG - TGGAA
Hydy TCCCCTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC TAC - - TAAACAAC CCCC ACG - TGGAG
Gzac CACCCTGA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAG - - TAAATAAC CCCC ATG - TGGAG
Pevo TGCTTCCC TGTCT TTTGGTTG GGGCGACC -AC GGGC AAA - - AGAATAAC TCCC GCG - TGGAA
Hiku TCATCCTA AGTCT TTTAGTTG GGGCGACC -GC GGAC CAA - - AACAAAAC CTCC GTG - AGGAA
Inpa TGCCCAAC AGTCT TTTGGTTG GGGCGACC -GA GGGC TATG - ACA - CAAC CCCC ACG - CGGAA
Auch TGCTTGA TGTCT TTTGGTTG GGGCGACC -AC GGGC AAA - - AATAAAC CCCC ACG - TAGAA
Fico TGCTTGA TGTCT TTTGGTTG GGGCGACC -GC GGGC ACA - - TAAAGAAC CCCC ACG - TGGAA
Macs TGTTTGA TATCT TTTGGTTG GGGCGACC -GC GGGC AAAT - AAA - TAAC CCCC ACG - TGGAC
Moal TGCTTCCC TGTCT TTTGGTTG GGGCGACC -AG GAGA AAC - - TAAAAAC TCTC CCG - AGGAG
Syma TATTTCAA TGCT TTTGGTTG GGGCGACC -AA GGAC AAT - - TAACCAAC CCCC ACG - TGGAA
Mafr TGCTCTAA TGTCT TTTGGTTG GGGCGACC -AC GGGC AAA - - AAAACAAC CCCC ACG - CAGAC
Dcpe TGCTTAAA TGTCT TTTGGTTG GGGCGACC -GC GGGC CAA - - TAAACAAC CCCC AAG - AGGAC
Dcti TGCTTGA TGTCT TTTGGTTG GGGCGACC -GC GGGC CAA - - CAAACAAC CCCC AAG - AGGAC
Hehi TTCCCTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - CAAAAAC CCCC ACG - TGGAA
Stam TCCCCTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - GAAAAAC CCCC ATG - TGGAA
Hogi CAACTTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAA - - CAAAAAC CCCC ATG - TGGAA
Erzo TGCCGAA TGTCT TTTGGTTG GGGCGACC -GC GGGC CAT - - TAAAAAC CCCC ACG - TGGAA
Hxot CGCCCTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAT - - TACAAAAC CCCC ACG - TGGAA
Core TGCCCTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAT - - TAAAGAAC CCCC ACG - TGGAA
Apve TGCCCTAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAC - - TAAATAAC CCCC ACG - TGGAA
Latj TACTCAA TGTCT TTTGGTTG GGGCAACT -AT GAGC - AAC - AAA - AAC CCTC ACG - TGGAA
Laja TGTCCAA TGTCT TTTGGTTG GGGCGACC -GC GGGC AAC - - TACAAAAC CCCC ACG - TGGAA

Syja TGCCCGAA TGTCTTTGGTTGGGGCGACC-ACGGGC AA--CACAAAACCCCCGCG-TGGAT
 Epme TGCCCTAA TGTCTTAGGTTGGGGCGACC-GCGGACCAAC-AAA-AAACCCCCGCA-AGGAC
 Grse TGCCCTAG TGTCTTCGGTTGGGGCGACC-GCGGACAAA--AAAGAAACCCCCGCA-CGGAA
 Clja TGCCCCTG TGTCTTAGGTTGGGGCGACC-ACGGGC TAT--TAGATAACCCCCATG-TAGAA
 Ogcy CCCTTCTG TGCCTTTGGTTGGGGCGACC-GCGGGGACA--AAAATAACCCCCATG-TGGAA
 Plna TTTTCTAA TGTCTTTGGTTGGGGCGACC-ATGGAC AAT--CATAAAGCCTCCACG-CGGAA
 Lema TTATTCCA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--TAAAAAACCCCCACG-TGGAC
 Etzo TGTCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CAAAAAACCCCCACG-TGGAA
 Apse TGCCCGAC TGTCTTTGGTTGGGGCGACC-ACGGACAAA--AAGTAAACCCCCGTG-TGGAA
 Epde TGTCCGCA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CATAGAACCCCCACG-TGGAA
 Slja TGCCCTAA TGTCTTCGGTTGGGGTGACC-GTGGGGGAA--AACAGAGCCCCCATG-CGGAA
 Bsja CGCCCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGTAG--TACAAAACCTCCGCG-TGGAA
 Ecna TATTTTTA TATCTTCGGTTGGGGCGACC-ATGGAC AAT-ATA-AAACCCCCACG-TGGAA
 Cohi TACCCTA TATCTTCGGTTGGGGCGACA-ATGGGGAAA--TAAAAATCCCCATG-CGGAA
 Caar TGTCTAA TGTCTTCGGTTGGGGCGACC-ATGGGG AAG--CACAAAACCCCCATG-CGGAA
 Came TGTCTAA TGTCTTCGGTTGGGGCGACC-ATGGGG CAG--CACAAAACCCCCATG-TGGAT
 Mema CTGCCCTC TGTCTTCGGTTGGGGCGACC-ATGGGG AAAC-AAA-AAACCCCCACG-TGGAC
 Lenu TGTTCAAA TGTCTTTGGTTGGGGCGACC-ACGGACCAT--CAAAAAACCCCCGCG-TGGAA
 Brja TACCCCC TGTCTTTGGTTGGGGCGACC-ACGGGGAAA--CAAAGAACCCCCATG-TGGAA
 Plma TGCCCTA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--TAAAAAACCCCCACG-TGGAA
 Emst TGCCCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CACAAAACCCCCACG-TGGAA
 Ptti TGCCCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CACAAAACCCCCACG-TGGAA
 Losu TGTCTAA TACCTTTGGTTGGGGCGACC-ATGGGG AA--TAAGAACCCCCCACG-TGGAC
 Geoy TGTCCAA TGTCTTTGGTTGGGGCGACC-CTGGGG AAC--AA-AAATCCCCATG--AAGA
 Dipi TGTCTAA TGTCTTCGGTTGGGGCGACC-GCGGGGAAA--CACAAAACCCCCACG-TGGAA
 Pama TGCCCTAA TGTCTTTGGTTGGGGCGACC-GCGGGG AAAT-ACA-AAACCCCCATG-TGGAG
 Leob TACCCTAA TGTCTTTGGTTGGGGCGACC-GTGGGG-CA--CACAAAACCCCCACG-TGGAG
 Neba AATCCGAC TATCTTTGGTTGGGGCGACC-GCGGGG ACT--AAAAAACCCCCATG-TGGAC
 Pdpi TGTCTCCTC CGTCTTCGGTTGGGGCGACC-ATGGGG AAC--TAAATACCCCCCACG-CGGAC
 Nimi TGTCTAG TGTCTTTGGTTGGGGCGACC-ACGGGG AAC--TACACAACCCCCGCG-TGGAA
 Uptr TGTCTCA TGTCTTTGGTTGGGGCGACC-GTGGGG TAA--CAAACAACCCCCATG-TGGAC
 Pesc TATCTAC TGTCTTCGGTTGGGGCGACC-GCGGACAAA--CAAACATCCTCCACG-CGGAA
 Baar TGCTCTGA TGCCTTAGGTTGGGGCGACC-CCGGGG AAT--AA-AAACCCCCCGCG-TGGAA
 Moar TGCCCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--TACAAAACCCCCATG-TGGAC
 Toja TGTTTTTA TGTCTTCGGTTGGGGCGACC-ATGGGG AAG--TAAAAAACCTCCACG-TGGAA
 Chau TGCCCTAA TGTCTTTGGTTGGGGTGACC-GCGGGG AAAT-AAA-TAACCCCCGTG-TAGAA
 Chse TGCCCTAA TGTCTTAGGTTGGGGCGACC-GCGGGGAAA--TGAAAAACCCCCATG-TGGAA
 Enar TGCCCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CAAAAAACCCCCATG-TGGAA
 Hpty TGCCAAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CATAAACCCCCACG-TGGAA
 Nana TGTCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CAAAAAACCCCCACG-TGGAA
 Mcst TGCCCTAA TGTCTTCGGTTGGGGCGACC-GCGGGGAAA--CAAATAACCCCCATG-TGGAA
 Rhox TGCCCTAA TGTCTTTGGTTGGGGCGACC-ACGAGGAAA--A--AGAACCCCCGTG-CGGAC
 Opfa TGCCCTAA TGTCTTTGGTTGGGGCGACC-GTGGGG AAAC-AAA-AAACCCCCATG-TGGAA
 Paar TGCCCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--TAGAGAACCCCCACG-TGGAA
 Gozo TATTCCAA TGTCTTTGGTTGGGGCGACC-GCGGGG AAAC-AAA-AAACCCCCACG-TGGAA
 Ackr TGCCCTAA TGTCTTTGGTTGGGGCGACC-CCGGACCA--CAAAAACCCTCCGCG-TGGAA
 Elev TGTCTAAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--TAAAAAACCCCCATG-AGGAC
 Trdu TGTCTAA TGTCTTTGGTTGGGGCGACC-GCGGGGAAA--CAAAAAACCCCCATG-TGGAC
 Amoc TGATATAA TGTCTTCGGTTGGGGCGACC-TCGGGG AAAG-AAA-AAACCCCCACG-CGGAG
 Hame TGCCCTAA TGTCTTCGGTTGGGGCGACC-CCGGGGAAA--TAAGTAACCCCCATG-AGGAC
 Chso TGTCTAT TGTCTTTGGTTGGGGCGACC-ACGGGG CAA--CAAAAAACCCCCGCG-CGGAA
 Lyto TGCCCGAA TGTCTTTGGTTGGGGCGACC-GCGGGG CAT--TGAAAAACCCCCACG-TGGAA

Encr	TGTCCTAA	TGTCT	TT	GGTTG	GGG	CGACC	-GC	GGGC	AAT	-	TAGAAAAC	CCCC	ACG	-	TGGAA	
Bvar	TGCCCTTA	TGTCT	TC	GGTTG	GGG	CGACC	-GC	GGGC	TAA	-	AAATTAAC	CCCC	ACG	-	TGGAA	
Noco	TACCCCGA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	GAAAAAAC	CCCC	ACG	-	TAGAA	
Chsp	TTTCCTCA	TATCT	TT	GGTTG	GGG	CGACC	-AT	GGGC	AAA	-	CAAACAAC	CCCC	GTA	-	TGGAT	
Arja	TGTCCTAA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAT	-	TAAATAAC	CCCC	ACG	-	TGGAA	
Pase	TATCCTAA	TGTCT	TC	GGTTG	GGG	CGACC	-GA	GGGC	GAAC	-	ACT	TAAC	CCCC	ATG	-	CAGAA
Trel	TGCTCGAA	TGTCT	TC	GGTTG	GGG	CGACC	-AC	GGAC	AAA	-	CAAGAAAC	CCCC	GTA	-	TGGA	
Lifa	CTATTTAA	CGTCT	TG	GGTTG	GGG	CGACC	-AA	GGGC	AAA	-	AGAAAAAC	CCCC	TTG	-	CGGAA	
Acur	GTTTTACT	TGCC	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAAT	-	AAA	AAAC	CCCC	ATG	-	AGGAT
Ampe	TGCCCTAG	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	CATAAAC	CCCC	ATG	-	TGGAA	
Urja	TGCCTTAG	TATCT	TC	GGTTG	GGG	CGACC	-CC	GAGC	AAC	-	AAAAAAC	CCCC	GGG	-	TGGAC	
Enet	TGCCTTAT	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGAC	TAA	-	CATTAAC	GTCC	ACG	-	AGGAC	
Ptbr	TTTTGAAC	TGTCT	TC	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	AATTTAAC	CCCC	ATG	-	AGGAA	
Safa	CCGTTTCA	TGTCT	TC	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	TAAAAAAC	CCCC	ATG	-	TGGAA	
Icae	TGCCCGTA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	TAAAAAAC	CCCC	ACG	-	TGGAC	
Asmi	CTCTCCAC	TGTTT	TC	GGTTG	GGG	CGACC	-GC	GGTC	TAC	-	TAAATAAC	CCCC	GCG	-	AGGAC	
Foal	CCTTAAAA	TGTTT	TTT	GGTTG	GGG	CGACC	-TT	GGGA	AAA	-	CAAGCAAC	TCCC	ATG	-	TCGAG	
Drze	TACTTAGA	TATCT	TTT	GGTTG	GGG	CGACC	-CT	GGGC	AAA	-	AAAAGAAC	CCCC	ATG	-	TGGAC	
Rhas	TGTCCCC	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	CAAAAAAC	CCCC	ACG	-	TGGAA	
Elac	TGTTCTCC	TGTCT	TC	GGTTG	GGG	CGACC	-GC	GGGC	-	AA	-	CAAAAATC	CCCC	ACG	-	TGGAA
Kugu	CTGTCCAA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	CAAAAAAC	CCCC	ACG	-	TGGAA	
Plor	CTGCCAGA	TGTCT	TTT	GGTTG	GGG	CGACC	-AC	GGGC	AA	-	-	CACGAAAC	CCCC	GCG	-	CGGAA
Sgun	TGCCCTAA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	CACAAAAC	CCCC	ACG	-	TGGAA	
Zaco	TGTCCTAA	TATCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	TACAAAAC	CCCC	ATG	-	TGGAA	
Zbfl	GCCCTATA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	TACAAAAC	CCCC	ACG	-	TGGAA	
Spba	TGTTTTTA	TGCC	TC	GGTTG	GGG	CGACC	-AT	GGAC	TAA	-	TAAAAATC	GTCC	AAG	-	TGAGA	
Game	TGCCCTTA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAAT	-	AAA	AAAC	CCCC	ACG	-	TGGAA
Thth	TGCCCCCA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	TAAAAAAC	CCCC	ACG	-	TGGAA	
Xigl	TGCTTTAA	TGTCT	TC	GGTTG	GGG	CGACC	-AT	GGGC	AAA	-	TAAAAAAC	CCCC	ACG	-	CGGAC	
Hyja	TGCCCTA	TGTCT	TC	GGTTG	GGG	CGACC	-AC	GGGC	AAA	-	TAAAGAAC	CCCC	GCG	-	TGGAA	
Psan	TGCCCTA	TGTCT	TC	GGTTG	GGG	CGACC	-AC	GGGC	AAA	-	TAAAAAAC	CCCC	GCG	-	TGGAG	
Cupa	TACTCCTA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	TAAAAAAC	CCCC	ATG	-	TGGAA	
Mpch	TGTCCTAA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	CAAACAAC	CCCC	ACG	-	TGGAC	
Char	TACTCCCC	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AA	-	-	TACAAAAC	CCCC	ATG	-	TGGAA
Pser	TGCTCCA	TGTCT	TC	GGTTG	GGG	CGACC	-GT	GAGC	AAATTA	-	AAAAAAC	GTCC	ACG	-	TGGAA	
Prol	AGCCCTGA	TGTCT	TC	GGTTG	GGG	CGACC	-AT	GGGC	-	AA	-	CACAAAAC	CCCC	ACG	-	TGGAA
Plbi	TGCCTTGA	TGTCT	TC	GGTTG	GGG	CGACC	-AT	GGGC	-	AA	-	TACAAAAC	CCCC	ACG	-	TGGAA
Calu	TGCCCTAG	TGTCT	TA	GGTTG	GGG	CGACC	-AT	GGGC	AA	-	-	CACCCAAC	CCCC	ATG	-	AGGAC
Papa	CGTCCCAC	TGTCT	TC	GGTTG	GGG	CGACC	-TT	GGGC	TAA	-	TATATAAC	CCCC	ACA	-	TGGAA	
Sufr	TGTCCTAA	TGCC	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	CAAAAAAC	CCCC	ATG	-	TGGAA	
Stci	AGTTTGA	TGCC	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	CAAAAAAC	CCCC	ACG	-	TGGAC	
Taru	TGTTTTAA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	TAA	-	CAAAAAAC	CCCC	ATG	-	TGGAA	
Rala	TACCCTAA	TGTCT	TTT	GGTTG	GGG	CGACC	-GC	GGGC	AAA	-	TAAAAAAC	CCCC	ATG	-	TGGAC	

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	HVR	
Scca	--CGAGTATTCAAA-----TAC-----	
Muma	--TGAGTA-CTCAGTAC-----TTG-----	
Erca	--TGAAGCACAG-----CTTT-----	
Pose	--TGAAGCACAGC-----TTT-----	
Actr	--CGGGGGCACTGC-----CCC-----	
Scal	--CGGGGGCACTG-----CCCC-----	
Posp	--CGGGGGCACTG-----CCCC-----	
Atsp	--CTGGAGA-----TAGCCTCT	
Leoc	--TGGAGATA-----ACCTCTA-A----	
Amca	--TAGGAA-TACTTTAA-----TATAATTCCTAA----	
Osbi	--ACTCGGGGAATAG-----TCAAACAA	
Pabu	--TTAAGATTAATTATCTTAA-----AGA----	
Hial	--TGAGGGCCAAGCC--CTTAAA-----	
Elha	--CGGGGGGACTATTACTACC-----CCTAAA----	
Mlcy	--CAAGGACA--CAGTCCT-----CAAA----	
Algl	--TGGGGTAATATTCCTAA-----A----	
Ptgi	--TGAACAA-----CCCC-----	
Alaf	--TGGGGGCA--CACCCCT-----AAA----	
Nock	--TGGGGTTTATAA-----TTTACCCTAAA----	
Anja	--CAGGGAC-----TAA-TCCCTAA----	
Gyki	--CGGGAACCC-----TTAA-----	
Syka	--TGGGGA-----TATC-----CCCTAA----	
Opma	--CGAAAA--CATC-----TTCCTA-A----	
Comy	--TGGGTA-AAATTA-----TCCTAA----	
Sasp	--AAAGAATATAAGACTAA-----TCTTA----	
Eupe	--AAGGA---TAAACTCCT-----A----	
Enja	--CGGGAA-----AAC-----CCT-----	
Same	--TGGGGGAC-----ACCCT-----	
Chch	--TGAA-C-----AAACCATT-----TA-----	
Grgr	--TGGGG--CAACCCTAG-----	
Caau	--CGGGAG-AAT-----TTCCT-----	
Cyca	--TGGGAAAACC-----T--CCT-----	
Dare	--CGGG--CACAGC--CCTAAA-----	
Cost	--TGGGT-TAACAA-----A-CCT-----	
Leec	--TGGGATAA-----A--TCC--T-----	
CrIa	--TGAGCCAACA-----AG--CTT-----	
Clmc	--TGGGAAA-----ACTCCT-----	
Phin	--TAG---ACC-----ATTCTCT-----	
Icpu	--TGGGGC--AA-TCCCCCTAA-----	
Psto	--CGGGATAACA-----TCCTA-----	
Cora	--TGAGG--ACTA--ACCT-----TA-----	
Eisp	--TGGGGCTATCGC-----CCC-----	
Apal	--TAGGAA-AAATA-----TTCC-T-----	
EsLu	--TAAGGAAAAC-----CT--CCTT-----	
Dape	--TGAGGGTAATA--CCCTT-----	
Glse	--CGGGAGAAC-----CCTACTCCT-----	
Naar	--TGGGAAAACCTT--TCCTACA-----	
Baoc	--TGGAAAACCTTTTCCAC-----	
Opso	--TAGGAAAACCC-----TTCCC-----	
Alte	--CGGGATTATTCCT-----	
Plap	--CGGGATATC-----CC-----	

Plal	--CAGGGTCACAGACC-----CC-----
Sami	--CAAGGTTACGAA-----C-CTCA-----
Rere	--TGAAGTAACTACCCTT-----CA-----
Gama	--CGGGAGGAAATA-----CTCCTA-----
Onmy	-CTGGGGGGCACTGCCCCA-----C-----
Sasa	-CTGGGGGCACTG-----CCA-----
Cola	--TGGGGGCACTG----CCCC-----C--AC-----
Dita	--TGGGAG-CACA-----CATCCTAG-----
Gogr	--TGAGGG--CACTGCCCCCA-----
Chsl	--TAGG-GCTTCTA-----CCC-----
Atja	--TAGGAA-AACC-----TTCCTAA-----
lido	--CAGGAAA--ATCTTCCTA-----A-----
Auja	--CGAGGACAC---CTC-CTT-----AA-----
Chag	--CTGGGGCGACCCCCC-----AT-----
Hami	--CGGAATAAACATTCC-A-----A-----
Saun	--CGGGAAAAC-----CTTCCCAA-----
Nema	--CGGGGCTACACACC-----CTAA-----
Disp	--CAGGGCTACCATA-----GCCTTA-----
Myaf	--CGGGGCCACTCAGCCCTA-----
Lagu	--CGAGAG-----ACCTCTCTTA-----
Trtr	--TGGGTA-----CCCCCTA-----
Zucr	--AGGGGGTAACC---CC-----TA-----
Pxja	--CGGGAATACT-----AATTCCTAC-----
Pxlo	--CGGGA-----ATACTAA--TTCCTAC-----
Pctr	--TAGAGA-AACAT-----CTC--TA-----
Apsa	--TAGGA--CAT-----CTCCTT-----
Cabe	--TGGAGTACA-----CTC--CA-----
Bzze	--TGGGAGTAC-----CCCTCCTA-----
Siim	--TGGAAATAAA-----GCACTTATTCCT-----
Ctru	--CGGGGACAC--TATTCACC-----A-----
Dpbr	--TGGAAAG-----TACCACC-----TCCCA-----
Caki	--CAGGGACATAAC-----CCTA-----
Phja	--TGGGGAT--ACT--ATCCCTAA-----
Brsp	--GGGGCCTCTA-----TAAG-----
Gamo	--CGGGGATATTA--TCCCTAATA-----
Lolo	--CGGGGATATTAT-----CCCTA-----
Batr	--TGGTA-----CACACACC-----
Prmy	--TAGAATAACCTT-----
Loli	--TGGGAGT--A-----CCTCTC-----
Loam	--AGGGAACACCCT-----T--CCT-----
Chab	--TGGAAACAGACCCTTTTC-----TAC-----
Chto	--TGGAAACAGACCCTTTTCTAC-----
Majo	--CGGGAGTACCC-----CTCCTAC-----
Hlst	--TGGGGACACCTCC-CCTA-----C-----
Clpe	--TGAAAG-CACAC-----CTTATTC-----
Mlmr	--CAAGGACAAACC-----TCCAC-----
Crcr	--TGAGAGCACATATTCACAC-----TCATTAATACTG-----
Muce	--TGAGAGCACATACT-CACACTTATCAATACCGC-----TTCT-----
Bege	--TGAGAGTACTTCTC-----CC-----
Mela	--TAGGAGAACC-----CTCCCA-----
Hats	--TGGAAACCACAC-----ACACACCT-----
Orla	--AGAGAAAACCCCTATT-----CTT-----

Cosa --AAAGAG-CACTTT-----CTCTT-----
Exsp --CAGGAG-AACTTT-----TCTCCC-----
Depa --TAAGAGAATC-TTCT-----CTT-----
Rima --CAAAACACCATGTTTTTAT-----
Fuol --TAAAAGCACAAT-----CTTTTA---A-
Gmaf --TGAAGACACT-----CTAGCTTCA---T-
Xeei --AAGAAA-CACCTT-----ATGTTTCCA---A-
Pros --CAGAAGAA---CTTCTTCCAC-----
Scmi --CAGAAAACAC-----TCCTTCCA---C-
Rolo --TGAG-AGAACTT-----CTCCCA---C-
Cere --TGAGAGAAC-----CTCTCCA---A-
Daga --CGAGAGAACATCTC-TT-----TA---A-
Anco --AAGGAGGA-----CTCCTCCT-----
Dmve --AAGGAAT--A-----GCCCTCCTA-----
Dmar --AAAGGAGTAACCCTCCTA-----
Anka --AAGGAGG-AC-----TCCTCCTA-----
Moja --AGGGAA-----GACTACCC-----TCCTA-----
Hoja --AAGGAG-----GACACC-----TCCTA-----
Bede --TGGAAG-AACTT-----CTTCT-----
Besp --CGGAAG-AACTTC-----TTC-----
Mysp --TGGGAG-AACA-----TCCCC-----
Osja --CAGGGAG-----ACCCTC-----CCC-----
Sgro --TGAGAGCA---CCCCTCT-----TAC-----
Pzpa --TAGAAGTTT-----ATACTCCTAT-----
Zeja --TGGAAGCAC--AAGCCACC-----CA-----
Zzne --TGAGAGTTCAACTCCTAA-----
Zefa --TGAGAG-TTCTAC-----TCCTAA-----
Acni --TGAGAGTTT-----TACTCCTAA-----
Ncrh --TGAGAGTTTTA-----CTCCTAA-----
Agca --AGGGAACAC---CCTTCCT-----AC-----
Hydy --TGGGAGTA-----C-CCCCTCCTGC-----
Gsac --TGGGAGCAC---CCCTCCT-----AC-----
Pevo --CGGAAACAC-----CT--TTCTAC-----
Hiku --TGAGGT-----AAAAACCT-----TAC-----
Inpa --TAAAACACCAGTTTTAC-----
Auch --TGGGAGCAACTTTCTCATACGTAC-----ATATTCTCTCATCCTCC-----
Fico --TGGGAG-TAC---TT-----CTCCCA-----
MacS --TGGGGGCACTTG-CCCCT-----A-----
Moal --TAGGAAGAC---TCTTCC-----A-----
Syma --TAGAAGTACTC-----CTTCTCA-----
Mafr --TAAGAG-GACAT-----CCTCT-----
Dcpe --AGGGAG--TAA-----ACTCC-----
Dcti --AGGGAGTAACA-----CTCC-----
Hehi --AGGGAGCACCC-----CTCC-----
Stam --TGGGAGAAC-----CCCTCCTAA-----
Hogi --TGAAAGTAAGA-----TACTTTTAC-----
Erzo --TGGGAGCACCA---TCCT-----CCTAC-----
Hxot --TGGGA--ACAC---CCCT-----CCTAC-----
Core --CGGGA---ACACTTTTCCTAC-----
Apve --CGGGAGAACC-----CCCTCCTAC-----
Latj --TGGGAGCACTACAACCCACTATTATT-----TCTTCCCCTCCTGC-----
Laja --TGGGAACACCT-----CCTAC-----

Syja --AGGGAGCACCCCTCCCCCTTA-----TACTCCTCCTAC----
 Epme --CGAATGTACTACATTC-----AC-----
 Grse --TAGGTACACTC-----ATACCAC
 Clja --TGGGAAA--ACTGACTGCCTAA-----
 Ogcy --GGGAAGATTAACCTCCTGA-----
 Plna --TGGGAT-CAA-----ACCTTTCTAC----
 Lema --TGAATTA--TGCTATTC-----CAC-----
 Etzo --CGGGAG--AACTTCCTCCTAC-----
 Apse --CAGGGATAGC-----CC--CCCTTA----
 Epde --TGGGAGCACC-----CCTCCTAC----
 Slja --AGGACC-----ACCGTGTCT-----CTG--
 Bsja --CGAGAG-GACTTCC-----CTCTTAC----
 Ecna --TAAGAGAATAACCCATAAT-----CAACCCTCTTAAA----
 Cohi --CGGGAAAATTT-----TATCTAAGAAAT-
 Caar --TAGGAGGACAACCCACTATCTTCCCCCTCC-----TCCCA----
 Came --TGGGAGAACAACCCAAAACCCTTTTCC-----CACACTCCCA----
 Mema --TGGGGACACATACCTCCC-----ACCCCTCCCA----
 Lenu --CAGAAA-----CACACACCGT-----TTCTG----
 Brja --GGGGAG-CACTG-----CTCC-TA-----
 Plma --TGGGAGCACT-----GCTTCCTA----
 Emst --TGGGAACACCCCTCCTA-----
 Ptti --TGAGAA-CACCTC-----CTCTCA----
 Losu --TGGAGA-CCTACATCATCTTTTAACCAA-----AGTCTAATA----
 Geoy --CAGGGAG-----AACATTTTTACTACTCCTA----
 Dipi --AGGGAGCACAACCT-----CCTA----
 Pama --TAGGAATACA-----CATTCCTA----
 Leob --CAGGAG-CACAATA-----CTCCCA----
 Neba --CGAGAATAAAAGTTTTTCTTATT-----CTTA----
 Pdpi --TGGGAGCTTAATCCCATATTTCTTTCTTT-----CTCCGCTCCCA----
 Nimi --TGAAGCATTT-----TGCTGCCA
 Uptr --AGGGAGGACT-----CC--TCCTA----
 Pesc --TAAGAGCACT-ACT-----CTTA----
 Baar --CTGGACCACCT-----TATCCCTT-
 Moar --TGGGAATACCCCT-----CCTA----
 Toja --TAGGAGCATTCAACCCTTTTCTCTAAC-----CCTCCTCCCA----
 Chau --AGAGGGCTCACTCCCTC-----T-----
 Chse --CGGGAGCAC-----CCCTCCCA----
 Enar --TGAGAACA-----C-CCTCT--TA-----
 Hpty --TGGGAACACCCACT-----CCTA----
 Nana --CGGAGACACC-TTC-----CCCT-----
 Mcst --TAGAGACACCCTCTCCTA-----
 Rhox --TGGGGG-CATACC-----CCCCTA----
 Opfa --TGGGAAAACC-----CTTTCCCTA----
 Paar --TAGGA-----TTATTT---TCCTT-----
 Gozo --TGGGAGTACTACTCCTA-----
 Ackr --TGAGAAAAA--CTTCTT-----A-----
 Elev --TGGAAACACTTTTC-----C-A-----
 Trdu --CGGGAGCACA-----CTGCCCA----
 Amoc --CAGAAGTACCATACTTC-----C-----
 Hame --TGAAG-CA-TGC-----TTCCA----
 Chso --CAGAAA-CATTG-----TTTCCA----
 Lyto --TGGG-AGCACCC-----CTCCT-----

Encr	--TGGGAG-CACC-C-----CTCCTAC----
Bvar	--CGGGGTATATACACCCCC-----CG----
Noco	--CAGGAGTACAACCTCCTTA-----
Chsp	--TGGGAGAA-AAATCTCTCCTAC-----
Arja	--TGGGAG-AACC-----CCTCCTAC----
Pase	--GTGAAGGCC-----TCCTTCCAA----
Trel	---GGGGA-----AAACTTCC-----TCA----
Lifa	--TGAAG-CTTTTT-----ACACCAATAAT-
Acur	---AGGAAGTATTACTTCT-----AC----
Ampe	--TGGGAGCACCTCT-C-----CTAC----
Urja	--TGGGACAGC-----ACACCCTAA----
Enet	--TGGAACTCT-TCCATTCT-----AC----
Ptbr	--TGAGGAC-----TTCATC-----CTCC----
Safa	--C---AT-----CATCACCTGT-----TTTT----
Icae	--TGGGAGCACTGCCT-----CCTA----
Asmi	--AGAAACCA--CTGTTTTT-----A----
Foal	--AAAGAA--CTAA--TCTTT-----CA----
Drze	--TGGGA-TACTTT-----CCTA----
Rhas	--CAGGGAT--ACC--CC-----CCTT----
Elac	--TGGGAACAACCT-----CCCT----
Kugu	--TAAGAG-----TACTCCTCTTT-----
Plor	--CGGAAGCA--CCTCCTTC-----TA----
Sgun	--TGGG-ACTACCCG-----TCCTA----
Zaco	--TGGGAATACCCCT-----CCT----
Zbfl	--TGGGAACACCCC-----TCCT----
Spba	-GGGAGCACTTCACCCTTTTCTACCTCTACATCCACCCTTATCTAACCCCTCT-----
Game	--TGGGAGCACTAC-CTCTC-----
Thth	--TGGGAGTACTAC-----CTCCT-----
Xigl	--TGGGAGCACTAAACCCC--TTCTTTACC-----TCTCCTCCC-----
Hyja	--TGGGAGCACTGA-----CTCCT-----
Psan	--TGGGAGTACAACCTTCTG-----
Cupa	--TAGGGGC-----ACTGCCCTA-----
Mpch	--CGAGAGCA-----T-ACTCT--TA-----
Char	--TGGGAGAACCC-----CTCCTG-----
Pser	--TGGGAGCAACAATCCCTCGAAGATCTTTCTCT-----TC--TTTGTCTCCCAC-----
Prol	--AAGGAGTACACC--CCTACATTCTCT-----CCTCC--TAC-----
PIbi	--AGGGAGCACACCCCTAAGTTACTT-----CTTCTCCCGC-----
Calu	--CGGGAGCACTGCAGGGAAAATCCCCAGCCT-----TTGACCACCCTCCTA-----
Papa	--T-GAAGC--ATTTACCCACCAC-----ACCTGTCATCCA-----
Sufr	--TGGGACCACCCGTCCTC-----
Stci	--TGGGACCCTACG-TCCTA-----A-----
Taru	--TGAAAACACC-----
Rala	--TGAGAG-----CACCCC-----TCTTA-----

	HVR	:	47	D	47'	:	HVR	:
Scca	----	TTAAAAGTTA	GAATTA	CAA	TTC	TAACC	-GATAAA-	-----A-A
Muma	-----	AAAATCA	GAATAA	CAA	TTC	TGATT	-AATAAA-	-----A-T
Erca	A-----	ATTAACTA	GAATGA	CAA	TTC	TAAGT	-ATCAGG-	-----A-T
Pose	----	ATA-AGTTAA	GAATGA	CAA	TTC	AACAC	-ATCAGG-	-----A-C
Actr	-----	TAAACCTA	GGCGA	CAG	CCC	AAAGC	-AACAGA-	-----A--
Scal	-----	TAAACCTA	GGCGA	CAG	CCC	AAAGC	-AACAGA-	-----A-C
Posp	-----	TAAACCTA	GGCGA	CAG	CCC	AAAGC	-AACAGA-	-----A-T
Atsp	A-----	AAACCAA	GAGCAA	CAA	CTC	TAAGT	-AACAG-	-----AAA
Leoc	-----	AACCAA	GAGCAA	CAA	CTC	TAAGT	-AACAGA-	-----A
Amca	-----	AACTAA	GAGCCA	CCA	CTC	TAAGT	-AACAGG-	-----A-C
Osbi	TCCCTAAGA	ACCAA	GAACCA	CAA	TTC	CAAGT	-AACAG-	-----AAA
Pabu	-----	ACCGA	GAGCTA	CTG	CTC	TAAGC	-AACAGA-	-----A-A
Hial	-----	GCCAA	GAGACA	CAA	CTC	TAAGC	-AACAGA-	-----C-A
Elha	-----	GCCAA	GAGACA	CAC	CTC	TAAGC	-AACAGA-	-----A--
Mlcy	-----	ACCAA	GAGACA	CAA	CTC	CAAGC	-AGCAGA-	-----A
Algl	-----	GCTGA	GAGCTA	CAG	CTC	TAAGA	-AGCAGA-	-----A--
Ptgi	-----	TAAACTAA	GAGAAA	CAC	CTC	TAAGT	-AACAGA-	-----A-C
Alaf	-----	ACTGA	GATACA	CAA	ATC	TAAGT	-AACAAA-	-----A--
Nock	-----	ACTAA	GAAATA	CAA	ATC	TAAGT	-AGCAA-	-----A--
Anja	-----	GCCAA	GAGAGA	CAT	CTC	TAAGC	-AACAGA-	-----AAA
Gyki	-----	GCTAA	GACAAA	CAA	GTC	TAAGT	-ATCAGA-	-----A
Syka	-----	ACCAA	GAAAGA	CAA	TTC	TAAGT	-AACAGA-	-----A-C
Opma	-----	ACCAA	GAGACA	CAT	TTC	CAAGT	-AACAGA-	-----A-A
Comy	-----	GCCAA	GAAAAA	CAA	TTC	TAAGC	-AACAAA-	-----A-T
Sasp	-----	AACCAA	GAAATA	CAC	TTC	AAGGC	-AACAGA-	-----A-A
Eupe	-----	AACCAA	GAAAAA	CAC	TTC	TAAGC	-AACAGA-	-----A--
Enja	-----	TAAGCCGA	GAATTG	CAA	CTC	TAAGC	-CGCAA-	-----A-T
Same	-----	AAAACCCA	GAGCCA	CAG	CTC	TAAGT	-CACAAA-	-----A
Chch	-----	GAGCTAA	GAGACA	CAT	CTC	TAAGC	-CACAGA-	-----A-C
Grgr	-----	AGCCCA	GAGAGA	CAC	CTC	TAAGC	-CACAGA-	-----C-A
Caau	-----	AAAACTAA	GAGAGA	CAT	CTC	TAAGC	-CACAGA-	-----A-C
Cyca	-----	AAAACCAA	GAGAGA	CAT	CTC	TAAGC	-CACAGA-	-----A-C
Dare	-----	ACCAA	GAGAAA	CAT	CTC	TAAGC	-CTCAGA-	-----A
Cost	-----	AAAACCAA	GAAAGA	CAT	TTC	TAAGC	-CACAGA-	-----A-A
Leec	-----	AAAACTAA	GAGAGA	CAT	CTC	TAAGT	-CACAGA-	-----A--
CrIa	-----	AAAACTAC	GAAAAA	CAT	TTC	TTTCT	-CTCTAT-	-----C-C
Clmc	-----	AATACCAA	GAGAGA	CAT	CTC	TAAGT	-CACAGA-	-----A--
Phin	-----	TTATCCGA	GAGAAA	TAT	CTC	TAAGT	-CACAGA-	-----ACA
Icpu	-----	AACCAA	GAGATA	CAC	CTC	TAAGT	-CGCAGA-	-----A-T
Psto	-----	AAACTAA	GAGAGA	CAT	CTC	TAAGT	-CACAGA-	-----A-C
Cora	-----	AAACCAA	GAAAGA	CAT	TTC	TAAGT	-CACAGA-	-----A--
Eisp	-----	AAAATTA	GAGGGA	CAC	CTC	TAAAT	-CGCAA-	-----A-C
Apal	-----	TGAACCAA	GAGAGA	CAT	CTC	TAAGC	-CACAGA-	-----A-C
EsLu	-----	ATAACCAC	GAGCGA	CAG	CTC	TAAGT	-CTCAGA-	-----A-C
Dape	-----	ATAAGCAT	GAGCTA	CAG	CTC	TAAGC	-ATCAGA-	-----A
Glse	-----	AAAGTCAA	GAGCCA	CAG	CTC	TAAGC	-AACAG-	-----AAC
Naar	-----	GCCAA	GAGCTA	CAA	CTC	TAAGC	-AACAGA-	-----A
Baoc	-----	AGCCAT	GAGTTA	CAA	CTC	TAAGC	-AACAGA-	-----A--
Opso	-----	ACAACTAA	GAGCTA	CGG	CTC	TAAGC	-AACAGA-	-----A-T
Alte	-----	AAAGCCAA	GAGGTA	CAC	CTC	TAAGC	-CTCAGA-	-----A--
Plap	-----	TAAACCAA	GAGGTA	CAC	CTC	CAAGC	-CTCAGA-	-----A-C

Plal -----ACAGCTGA**GGG**CTG-**CGG****CCC**CAAGC-AACAGA-----A-A
 Sami -----CACCTAA**GGG**CTG-**CCG****CCC**TAAGC-AACAGA-----A-A
 Rere -----CAGCTCA**GAG**CCG-**CGG****CTC**TACGC-AACAGA-----A
 Gama -----GAGCTAA**GAG**TTA-**CCA****CTC**TAAGC-AACAGA-----A-A
 Onmy -----CAGCCGA**GAG**CTA-**CAG****CTC**TAAGC-ACCAGA-----A
 Sasa -----CAACCAA**GAG**TCA-**CAA****CTC**TAAGT-ACCAG-----AAT
 Cola -----AGCCGA**GAG**CTA-**CAG****CTC**TAAGC-ACCAGA-----A--
 Dita -----GACTGA**GAG**TTA-**CAT****CTC**TAAGG-AACAGA-----A-C
 Gogr -----AGCTAT**GAG**CCA-**CAG****CTC**TAAGC-AACAGA-----A-C
 Chsl ---CCACAGCCAA**GGC**CCC-**CTA****ACC**CAAGC-AACAGA-----A-T
 Atja -----AACTAA**GAG**CCA-**CAG****CTC**TAAGT-AACAGA-----A-C
 lido -----AACCAA**GAG**CTA-**CAG****CTC**TAAGA-AACAGA-----A--
 Auja -----AACCAA**GAG**CAA-**CAG****CTC**TAAGT-ACCAGA-----A--
 Chag -----AGCCGA**GAG**CCCA**CCA****CTC**GAAGC-ATCAGA-----A
 Hami -----AACCAA**GGG**CTA-**CCG****CCC**TAAGC-AACAGA-----A-A
 Saun -----AACCAA**GGG**CTA-**CCG****CCC**TAAGC-AACAGA-----AAC
 Nema -----AACCGA**GAC**CCA-**CAG****CTC**AAAGC-AGCAGA-----A-C
 Disp -----GAACCCA**GAC**CCT-**CAA****GTC**AAATC-AACAGT-----A-C
 Myaf -----ATACATA**GAC**CCA-**CAG****GTC**AAATC-AACAGT-----A--
 Lagu -----GAACTAA**GAG**CCA-**CCC****CTC**CAAGC-ACCAGA-----A-C
 Trtr -----TAATCAA**GAG**CTA-**CAG****CTC**TAAAT-ATCAGA-----A
 Zucr -----TAATTAA**GAG**CTA-**CAG****CTC**TATAT-ATCAGG-----A
 Pxja -----AACCTA**GAG**CTA-**CCG****CTC**TAAGT-AACAGA-----A
 Pxlo -----AACCTA**GAG**CTA-**CCG****CTC**TAAGT-AACAGA-----A-C
 Pctr -----AAACCCA**GAG**CCA-**CTA****CTC**CAAGT-AACAGA-----A-C
 Apsa -----AACCTCA**GAG**CCA-**CCG****CTC**CAAGT-AACAAA-----A-C
 Cabe -----CAGCCAA**GAC**CCG-**CTC****GTT**TAAGC-ACCAGA-----A
 Bzze -----AAACTGA**GAG**CCG-**CAG****CTC**TAAGA-ATCAGA-----A
 Siim -----GAGCTAA**GAG**CTA-**CCG****CTC**TAAGC-AGCAGA-----A
 Ctru -----AATCCAA**GGG**CGA-**CAG****CCC**TAAGC-AACAGA-----A--
 Dpbr -----AAACCAA**GAG**CCA-**CAG****CTC**TAAGC-AACAGA-----A-C
 Caki -----ACACTAA**GAG**TCA-**CCC****CTC**TAAGT-AACAAA-----A-T
 Phja -----CACCCA**GAG**CCT-**CCG****CTC**CAAGT-AACAGA-----A-T
 Brsp --CCCTAAATCCC**GAT**AAT-**CAC****ATC**TAAGA-AACAGA-----ATC
 Gamo -----CTCAGA**GCC**TTC-**TTA****CTC**CAAGT-AACAGA-----A--
 Lolo -----ATACTCA**GAG**CCT-**CTA****CTC**CAAGT-AACAGA-----A-A
 Batr -----TAAATCAA**GAG**CCA-**CAC****CTC**TCGTT-AATACA-----AAA
 Prmy -----AAACAC**GAA**CAA-**CAG****TTC**TAGTT-ATCAGA-----A--
 Loli ----CTATCACCC**GAG**CTA-**CCG****CTC**TAATGTATCAGA-----ACC
 Loam -----ATCACCCA**GAG**CTA-**CCG****CTC**TAATT-ATCAGA-----A-T
 Chab -----AACTGA**GAG**TAC-**CCC****CTC**TAGCT-AACAGA-----A
 Chto -----AACTGA**GAG**TAC-**CCC****CTC**TAGCT-AACAGA-----A-T
 Majo -----AACTGA**GAG**CTG-**CCG****CTC**TAATT-AACGGA-----A-C
 Hlst -----AACTAC**GAA**CAA-**CCT****CTC**TAATT-AACGGA-----A--
 Clpe -----AACTGA**GAG**CTC-**CCG****CTC**TAATT-AGCAGA-----A-T
 Mlmr -----AAGCAA**GAG**CCC-**CCG****CTC**TAACT-AACAGA-----A
 Crcr CTTCTCACAACCAT**GAG**CTA-**CAA****CTC**TAAAT-AACAG-----AAC
 Muce -----CACAAACCAT**GAG**CTA-**CAG****CTC**TAAAT-AACAGA-----A-C
 Bege -----ACAACCAA**GAG**CGA-**CAG****CTC**TAAGT-AACAGA-----A--
 Mela -----CAACCAA**GAG**CGA-**CAG****CTC**TAAGT-AACAG-----AAC
 Hats ---TCTACAACCGA**GAG**TTA-**CAA****CTC**TAAGC-AACAGA-----A
 Orla -----ATAACCAA**GAG**CTT-**CCC****CTC**TAAGT-AACAGA-----A

Cosa -----ACAACCCA**GAG**TGA-**CAA****CTC**TAAGT-AACAGA-----A-C
 Exsp -----AGAACTAA**GAC**CGA-**CAG****GTC**TAAGT-ACCAGA-----A-A
 Depa -----ATAACCAA**GAG**TGA-**CAA****GTC**TAAGC-ATCAGA-----A-C
 Rima -----AGCCAA**GAC**CGA-**CAG****CTC**TAAGC-ACCAGA-----A-T
 Fuol -----AACCAA**GAG**CTA-**CAG****CTC**TAAGT-AACAGA-----A-C
 Gmaf -----AATAAA**GAG**CCG-**CAG****CTC**ACAAA-ACCAGA-----A-C
 Xeei -----ACCCAA**GAG**CCA-**CAG****CTC**TAAGT-AGCAGA-----A-T
 Pros -----AACCAA**GGG**CCC-**CCG****CTC**TAAGT-AACAGA-----A-C
 Scmi -----AACCAA**GAG**CCC-**CCG****CTC**TAAGT-AACAGA-----A--
 Rolo -----AACCAA**GAG**CCG-**CCA****CTC**TAAGT-AACAGA-----A-C
 Cere -----AACCAA**GAG**TCA-**CCA****CTC**TAAGT-AACAGA-----A
 Daga -----AGCCGA**GAA**CCC-**CAG****TTC**TAGGC-AACAGA-----A-T
 Anco -----ACAACCAA**GAG**CCA-**CTG****CTC**TAAGT-AACAG-----AAT
 Dmve -----CAACCAA**GAG**TCA-**CCA****CTC**TAAGC-AACAGA-----AAT
 Dmar -----CAACCAA**GAG**CCA-**CCA****CTC**TAAGT-AACAGA-----A--
 Anka -----CAACCAA**GAG**CCA-**CTA****CTC**TAAGC-AACAGA-----A--
 Moja -----CAGCCAA**GAG**CCA-**CTG****CTC**TAAGT-AACAGA-----A-T
 Hoja -----CAACCCA**GAG**CCA-**CTG****CTC**TAAGT-AACAGA-----A-C
 Bede -----ACAACCAA**GAG**TCG-**CCA****CTC**TAAGT-GACAGA-----A-C
 Bosp -----TACAACCAA**GAG**CCG-**CCA****CTC**CAAGT-GACAGA-----A-T
 Mysp -----AAAACCTAA**GAG**GTA-**CCC****CTC**TAAGA-AGCAGA-----A-C
 Osja -----AAAACCTAA**GAG**ATA-**CCC****CTC**TAAGA-AGCAGA-----A-C
 Sgro -----AACCGA**GAG**CTA-**CAT****CTC**TAAGA-AACAGT-----A
 Pzpa -----AACCAA**GAG**CCA-**CGG****CTC**TAAGT-CTCAGA-----AAT
 Zeja -----AGCCAA**GAG**CCA-**CAG****CTC**TAAGC-ATCAGA-----A--
 Znne -----AACCAA**GAG**CTA-**CAG****CTC**TAAGA-AACAGA-----A--
 Zefa -----AACCAA**GAG**CCA-**CAG****CTC**TAAGT-AACAGA-----A-A
 Acni -----AACCAA**GAG**CCA-**CAG****CTC**TAAGT-ATCAGA-----A--
 Ncrh -----AACCAA**GAG**CCA-**CAG****CTC**TAAGT-ATCAGA-----A-A
 Agca -----AAGTAA**GAG**CTC-**CCG****CTC**TAACA-AACAAA-----A--
 Hydy -----AGCCGA**GAG**TTA-**CAG****CTC**TAATA-AACAGA-----A--
 Gsac -----AGCTGA**GAG**TTA-**CAA****CTC**TAATA-AACAGA-----A--
 Pevo -----AACCAA**GAG**CGA-**CAG****CTC**TAAAG-AACAGA-----A-C
 Hiku -----ACCCAA**GAA**TGT-**CAT****TTC**TAAGT-ACCAA-----A-T
 Inpa -----AACCA**GAG**CCA-**CAG****CTC**TAAGC-AACAGA-----A-T
 Auch -----TTAAACCTA**GAA**TGC-**CAA****TTC**AAAGT-AGCAGA-----A-C
 Fico -----GAGCTAA**GAG**CTA-**CGG****CTC**TAGGC-AACAGA-----A-T
 Macs -----AAACCAA**GAA**CTA-**CAG****TTC**TAGTT-AACAGA-----A
 Moal -----AAACCAA**GAG**CCA-**CAC****CTC**TAATA-ATTAGA-----A--
 Syma -----AACCAA**GAG**TTA-**CAA****CTC**TAACC-AATAG-----AAC
 Maf r -----TAAAAACAA**GAG**CCA-**CCA****CTC**CAAAA-AACAGA-----A-C
 Dcpe -----TACACCAA**GAG**CCA-**CAG****CTC**TAATT-AACAGA-----A-C
 Dct i -----TACAACCGA**GAG**CCA-**CAG****CTC**TAATT-AACAGA-----A-C
 Hehi -----TACAATTA**GAG**CCG-**CAG****CTC**TAATT-AACAGA-----A-T
 Stam -----AACTAA**GAG**CTT-**CTG****CTC**TAAGT-AACAGA-----ACA
 Hogi -----AAATTT**GAG**CCA-**CAG****CTC**TAATT-AACAGA-----A--
 Erzo -----AGCCAA**GAG**CCA-**CAG****CTC**TAGGC-AACAGA-----A--
 Hxot -----AGCTAA**GAG**CTA-**CAG****CTC**TAGTA-AACAGA-----A--
 Core -----AACCAA**GAG**CTA-**CAG****CTC**TAGAA-AACAGA-----A-A
 Apve -----AGCTAA**GAG**CTA-**CAG****CTC**TAGTA-AACAGA-----ATT
 Lat j -----AACTAA**GAG**CCA-**CAG****CTC**TACCT-AACAGA-----A-A
 Laja -----AACTGA**GAG**CTT-**CCG****CTC**TAGTG-AACAGA-----A-A

Syja -----AATCAA**GAG**TCC-**CCA****CTC**TAATG-AACAGA-----A--
 Epme -----AACCAA**GAG**CGA-**CAG****CTC**TAATT-AACAGA-----C-A
 Grse -----AACCAA**GAG**CCA-**CAG****CTC**TAACT-ACCAG-----AAC
 Clja -----AACCAA**GAG**GGG-**CAC****CTC**AAAGG-AACAGA-----A-T
 Ogcy -----ACCCAA**GAG**CCA-**CAG****CTC**AAAAT-AACAGA-----A-C
 Plna -----AACCAA**GAA**TTA-**CAA****TTC**TAAGT-ATCAGA-----A-C
 Lema -----AACTAA**GAG**CCC-**CCG****CTC**TAGTT-AACAGA-----A
 Etzo -----AACTAA**GAG**CTA-**CTG****CTC**TAATT-AACAGA-----A-T
 Apse -----AACCCA**GAG**TGA-**CAG****CTC**TAACA-AACAGA-----A-T
 Epde -----AGCTAA**GAG**CTC-**CCG****CTC**TAGCA-AACAGA-----AAT
 Slja -----AACCAA**GAG**CTT-**CCA****CTC**TAATG-CCCAGA-----A-T
 Bsja -----AGCTAA**GAG**CTA-**CCG****CTC**TAAGA-AACAGA-----A-T
 Ecna -----AACATA**GAG**CCA-**CAC****CTC**CAATT-AACAGA-----A
 Cohi TATTCTTACCATAA**AGC**TAC-**TTC****CCC**AAATT-AAGAGTGACAGCTCTAAATTACAGTAT
 Caar -----CAAGCAA**GAG**TTA-**CAA****CTC**TAGCT-AACAGA-----A-C
 Came -----CAAGCAA**GAG**CTA-**CAA****CTC**TAACT-AACAGA-----ATC
 Mema -----CAAACAA**GAG**CTA-**CAA****CTC**TAACA-AACAGA-----A
 Lenu -----AGATTAA**GAG**CCC-**CCA****CTC**AAAGT-CCCAGA-----A-T
 Brja -----CAACCAA**GAG**CCG-**CAA****CTC**TAGTG-AACAGA-----A-C
 Plma -----CAACCAA**GAG**CCG-**CAG****CTC**TAAA-AACAGA-----AAT
 Emst -----CAACTGA**GAG**CTC-**CCG****CTC**TAGCG-AACAGA-----A--
 Ptti -----CAACCAA**GAG**CTC-**CCG****CTC**TAATA-AACAGA-----A-T
 Losu -----AAACTAA**GAG**CTC-**CCG****CTC**TAATA-CTCAGA-----A-C
 Geoy -----CAAACAA**GAA**CGA-**CAG****CTC**TAGTT-AACAGA-----A-A
 Dipi -----CAGCCAA**GAG**CTT-**CCG****CTC**TACTA-AACAGA-----A-C
 Pama -----AACCCAA**GAG**CTC-**CCG****CTC**TAATG-AACAGA-----A
 Leob -----CAGCTAA**GAG**CTA-**CCG****CTC**TAATA-AGCAGA-----A-T
 Neba -----CAATCAA**GAG**TTA-**CCA****CTC**TAACT-AACAGA-----A--
 Pdpi -----AAACCAA**GAG**CCA-**CCA****CTC**TAACT-AGCAGA-----A-C
 Nimi -----CAACTAA**GAG**CTC-**CCG****CTC**TAATA-AACAG-----AAT
 Uptr -----AAAGCAA**GAA**CCG-**CAA****TTC**TAACT-AACAGA-----A-T
 Pesc -----CAAACAA**GAT**TTC-**CCA****CTC**TAACGTAACAGA-----A
 Baar --ATCCTAAATCAA**GAG**CCC-**CCG****CTC**TACTG-AACAG-----AAA
 Moar -----CAACTAA**GAG**CTC-**CCG****CTC**TAATA-AACAGA-----A-T
 Toja -----GAATTAA**GAG**CTA-**CAG****CTC**TAACT-AACAGA-----A
 Chau -----GAATCGA**GAG**CTT-**CCG****CTC**AAACA-AACAGA-----A-T
 Chse -----CAATCAA**GAG**TCC-**CCA****CTC**TAACA-AACAGA-----A--
 Enar -----CAGCTGA**GAG**CTC-**CCG****CTC**TAATA-AACAGA-----A--
 Hpty -----CAACTAA**GAG**CTC-**CCG****CTC**TAGTA-AACAGA-----A
 Nana -----GAAATAA**GAG**TTA-**CAA****CTC**TAACT-AGCAGA-----A-C
 Mcst -----AAACAGA**GAG**CTC-**CCG****CTC**TAATG-AACAGA-----ACC
 Rhox -----TCACCAA**GAG**CTC-**CCG****CTC**TAATG-ACCAGA-----A-T
 Opfa -----AAACTAA**GAG**CCC-**CCG****CTC**TAATA-AACAGA-----A
 Paar -----AAATCAA**GAG**CTA-**CCG****CTC**TAAATCAACAGA-----A-A
 Gozo -----AAACTAA**GAG**CTC-**CCG****CTC**TAGAA-AACAGA-----A-T
 Ackr -----GAAGCGC**GAG**CGC-**CAG****CTC**TAACT-AACAGA-----A-T
 Elev -----CAGCTAA**GAG**CTC-**CCG****TTC**AAGGA-AACAGA-----A-T
 Trdu -----CAACCCA**GAG**TTA-**CAA****CTC**CAAGT-AACAGA-----A-C
 Amoc -----AAAATAA**GAG**CCA-**CCG****CTC**AAAGT-ATCAGA-----A
 Hame -----AAACCAA**GAG**CCT-**CTG****CTC**TAAGA-ATCAGA-----A-C
 Chso -----GAACCAA**GAG**TTT-**CCA****CTC**TAAGT-AACAAG-----ACC
 Lyto -----ACAATAA**GAG**CCA-**CAG****CTC**TAGTA-AACAGA-----A-A

Encr -----AACTAA**GAG**CTA-**CAG****CTC**TAGTA-AACAGA-----A-A
 Bvar -----AGTCAA**GAA**TTA-**CAT****CTC**CAGGC-AGCAGA-----A--
 Noco -----AACTCA**GAG**CCA-**CAG****CTC**TAAGA-AACAAA-----A--
 Chsp -----AACTTA**GGG**CCT-**CCA****CCC**TAAGT-CACAGA-----A-C
 Arja -----AACTAA**GAG**CTA-**CAG****CTC**TAGTA-AACAGA-----A-C
 Pase -----AAACAA**GAG**CTA-**CCG****CTC**TAATT-CTCAGA-----A-
 Trel -----AACTGA**GAG**CGA-**CAG****CTC**CAAGA-AGCAGA-----A-C
 Lifa GTTTCCTAAAACAC**GAA**CAA-**CCA****TTC**TAGTT-ATCAGA-----A-T
 Acur -----AATTA**GAG**CCA-**CCG****CTC**TAGTT-AACAGA-----A-
 Ampe -----AACTAA**GAG**CTA-**CAG****CTC**TAATG-AACAGA-----A-
 Urja -----AACCAA**GAG**CCA-**CCG****CTC**TAATC-AACAGA-----A--
 Enet -----AACCCA**GAG**CAC-**CCG****CTC**TAAGC-AACAGA-----A--
 Ptbr -----GAACTTA**GAG**TGG-**CAA****CTC**AAAGT-TACAAA-----A-C
 Safa -----GAACGAA**GAG**CGA-**CAA****CTC**AAAGT-ACCAGA-----A-C
 Icae -----CAACCAA**GAG**CTG-**CAG****CTC**TAGCA-AACAGA-----A-
 Asmi -----CAGAGAA**GAA**CCA-**CAG****TTC**TTCCA-CACAAA-----A-
 Foal -----AACTAA**GAG**AAA-**CAA****GTC**CAGGT-CACAGA-----A-
 Drze -----AAAGCTA**GAA**CCC-**TTA****TTC**TAACT-AACAGA-----A-
 Rhas -----AAAACCA**GAG**CCA-**CAG****CTC**TAACA-AGCAGA-----A-C
 Elac -----AAAATA**GGG**CCA-**CAC****CCC**TAATA-AACAGA-----A--
 Kugu -----AAACCAA**GAG**CCA-**CAG****CTC**TAAAA-AACAGA-----A--
 Plor -----CAACCAA**GAG**TTC-**CCA****CTC**CAATA-AACAGA-----A-
 Sgun -----CAGCCATA**GAG**CTC-**CCG****CTC**TAAGC-AACAGA-----A-T
 Zaco -----ACAATCCA**GAG**CTC-**CCG****CTC**TAACG-AACAGA-----AAA
 Zbfl -----ACAACTCA**GAG**CTC-**CCG****CTC**TAATA-AACAGA-----A-C
 Spba -----AAAACCAA**GAG**CTA-**CGA****CTC**TAACT-AGCAGA-----A-A
 Game -----ACAACCAA**GAG**CTG-**CAG****CTC**TAATG-AACAGA-----A-
 Thth -----ACAACCAA**GAG**CTG-**CAG****CTC**TAAAG-AACAGA-----A-T
 Xigl -----ACAACTAA**GAG**CTA-**CAG****CTC**TAACT-AACAGA-----ATA
 Hyja -----ACGACCAA**GAG**CTG-**CAG****CTC**TAACG-AACAG-----AAT
 Psan -----CAACCAA**GAG**CTG-**CAG****CTC**TAACA-AACAAA-----A--
 Cupa -----CAACCAA**GAG**CTG-**CAG****CTC**TAATA-AACAGA-----A-T
 Mpch -----CAGCTAA**GAG**ACA-**CTA****CTC**TAAGC-AACAGA-----A--
 Char -----AAACCAA**GAG**CCA-**CGG****CTC**TAAGC-AATAG-----AAC
 Pser -----AACTAA**GAG**CCA-**CAG****TTC**TAAGC-AACAGA-----A-T
 Prol -----AAGCTA**GAG**CGA-**CAG****CTC**TAATC-AGCAGA-----A-
 Plbi -----AAGCCA**GAG**CAA-**CAG****CTC**TAACA-AGCAGA-----A-A
 Calu -----GAAACCC**GGG**CTC-**CGG****CCC**TAGTT-CACGAA-----A-A
 Papa -----AAGTCA**GAG**CTAA**CAA****CTC**TAACT-AACAGA-----A--
 Suf r -----AAAAAA**GAG**CCC-**CTG****CTC**TAAAA-AACAGA-----A--
 Stci -----AAACAA**GAG**CAC-**CCG****CTC**TAATT-AACAGA-----A--
 Taru CTTTTTAAACCAA**GAG**TCA-**CCA****CTC**TAGGA-TACAG-----AAC
 Rala -----CATCCTA**GAG**TTA-**CCA****CTC**TAATA-AACAGA-----A-A

	48	48'	D'	43'
Scca	T-TTTATCG--AAAAAT---GACC	CAGGATTTT-----	CTGATCAATCAACC	AAGTTIAC
Muma	A-TTTATCGA-A-AAAT---GACC	CAGG-ATT-----	TCCTGATCAATCAACC	AAGTTIAC
Erca	AC-CTG-TCATTAA-----GATC	CAGA-CTAA-----	CTGATCAACCAACC	AAGTTIAC
Pose	A-TCTGACAT-T-A--A---GATC	CAGACTAAT-----	CTGATCAACCAACC	AAGTTIAC
Actr	CATCTGACGA-ACAAT---GACC	CAGGC-T--A-AAGC	CTGATCAACCAACC	AAGTTIAC
Scal	A-TCTGACG--AACAAT---GACC	CAGGCCAAA---GC	CTGATCAACCAACC	AAGTTIAC
Posp	A-TCTGACGA-A-CAAT---GATC	CAGGCCCAGC-----	CTGATCAACCAACC	AAGTTIAC
Atsp	-ATCTGAC--GATAA---ATGATC	CAGACCTGT-----	CTGATCAACGACC	AAGTTIAC
Leoc	AATCTGACGAT--AAAT---GACC	CAGACC-----	TGTCTGATCAACCAACC	AAGTTIAC
Amca	A-CCTGACGA-A-CAAT---GACC	CAGGCATACC-AAGC	CTGATCAACCAACC	AAGTTIAC
Osbi	ATTCTGACTAACAA-----TGATC	CGAACTT-----	TCCATCAACCAACC	AAGTTIAC
Pabu	ATTCTGACTAC--ACA----GATC	CGAATT-----	ATCCATTAACCAACC	AAGTTIAC
Hial	AATCTGACC--AAAAAT---GATC	CGGCCA---AAGC	CCGATCAACGACC	AAGTTIAC
Elha	CATCTGACCAAAAAAT-----GATC	CGGCCAAA---GC	CCGATCAACCAACC	AAGTTIAC
Mlcy	AATCTGACC--AAAAAG---ACCC	AGGCCAAAC-ACGC	CTGATCAACCAACC	AAGTTIAC
Algl	TATCTGACCA-GAAAT---GATC	CAGGC-C--A-AGGC	CTGATCAACCAACC	AAGTTIAC
Ptgi	AT-CTGACCAAAAA--T---GATC	CAGGCCGAA---GC	CTGATCAACCAACC	AAGTTIAC
Alaf	ATTTTGACCAATAAT-----GACC	CGGACCAA-----	ATCCGATCAACCAACC	AAGTTIAC
Nock	AATTTGACCA-ATAAT---GACC	CGGAATA-----	AATCCGATCAACCAACC	AAGTTIAC
Anja	--TCTGACCAAAAAGT-----GACC	CAGAATACTA--ATT	CTGATCAACCAACC	AAGTTIAC
Gyki	ATTCTGACT--AAATGT---GACC	CAGGCC-----	TAGCCTGATCAACCAACC	TAGTTIAC
Syka	A-TCTGACCA-A-AAAT---GACC	CAGGACCTAG---TC	CTGATCAATCAACC	AAGTTIAC
Opma	A-TCTGACC--AAACAT---GACC	CGGACAAAC-AAAC	CCGATCAATCAACC	AAGTTIAC
Comy	T-TTTGACCA-ATAAAC---GACC	CAGGGACAAC-ATCC	CTGAGCAATCAACC	AAGTTIAC
Sasp	AT-CTGACCAC-ATG----ACCC	AGGCCATA---AC	CTGATCAACCAACC	AAGTTIAC
Eupe	AATCTGACACAAGATCCG--GGTG	CAATG-A-----	ACCCGATCAATCAACC	AAGTTIAC
Enja	T-TTTGAC-TGAAAT-----GATC	CGGTTGAAA---AA	CCGATTAACCAACC	AAGTTIAC
Same	CATTTGACCAA--TAAT---GATC	CGGCTT-----	AATGCCGACCAACGACC	AAGTTIAC
Chch	A-TCTGACCA-A-AAAT---GATC	CGGA-CACCA---GA	CCGATCAACCAACC	AAGTTIAC
Grgr	CATCTGACC--AAACAT---GATC	CGGCGTGCG---CG	CCGACAACGACC	AAGTTIAC
Caau	A-TCTGACCA-A-ATAT---GATC	CGGCTAATAC-AA-G	CCGATCAACCAACC	AAGTTIAC
Cyca	AT-CTGACCAAAATAT-----GATC	CGGCTTAACACATAG	CCGATCAACCAACC	AAGTTIAC
Dare	CACCTGACC--AAAGAC---GATC	CGGCCTA---TAAG	CCGATCAACCAACC	AAGTTIAC
Cost	AT-TTGACCAATAAT-----GATC	CGGCCAA---TAAGA	CCGATCAGCGACC	AAGTTIAC
Leec	ATTCTGACCA-ATTAT---GATC	CGGCCACT---AGG	CCGATCAACCAACC	AAGTTIAC
CrIa	C-TCTGACC--AAATAT---GATC	CGA CCTATAA--AG	TCCATCAACCAACC	AAGTTIAC
Clmc	CATCTGACCA---AAT----GATC	CGGCCACA--T-AGA	CCGATCAACGACC	AAGTTIAC
Phin	--TCTGACCA-TAAT-----GATC	CGACCAATCG---G	CCGATTAACCAACC	AAGTTIAC
Icpu	T-TCTGACC--AA-A-A---GATC	CGGCTTCTCT-----	GCCGACCAACGACC	AAGTTIAC
Psto	T-TCTGACC--AC-AAA---GATC	CGGCACTAT-----	GCCGATCAACGACC	AAGTTIAC
Cora	TTTCTGACCACACA-----GATC	CGG-CAAT---TG	CCGATCAATGACC	AAGTTIAC
Eisp	AT-TTGACCAA-AAA-----GATC	CGGCCTCCA---GG	CCGATCAACCAACC	AAGTTIAC
Apal	A-TCTGACTA-A-AACA---GACC	CGG GTATAAC-AC--	CCGATTAACCAACC	AAGTTIAC
EsLu	T-TCTGACC--AAAAA---GATC	CGACACC-----	AGTCCATCAACGACC	AAGTTIAC
Dape	CTTCTGACCAA---AAT---GATC	CGACAT-----	AG--TCCATCAACCAACC	AAGTTIAC
Glse	-TTCTGACC--AAAA---ATGATC	CGGTAACA-----	CCGATCAACCAACC	AAGTTIAC
Naar	TTTCTGACC--AATA-T---GATC	CGGCA-----	AATGCCGATCAACGACC	AAGTTIAC
Baoc	TTTCTGACCAAAA-C-----GATC	CGG--CATA---CG	CCGATCAACGACC	AAGTTIAC
Opso	T-TCTGACCAAAAAAT-----GACC	CGACATAAT---AA	TCCATCAACCAACC	AAGTTIAC
Alte	CATCTGACCATAAAT-----GATC	CGG-CAAAA-----	GCCGATCAACCAACC	AAGTTIAC
Plap	AT-CTGACCATAAAT-----GATC	CGGCCAA-----	GCCGATCAACCAACC	AAGTTIAC

Plal AT-CTGACCAA-AAT-----GATCCGGCAAATT----TGCCGATTAACCGAACAAAGTTIAC
 Sami T-TCTGACCA-A--GAT---GATCCGGCGTAA-----CGCCGATTAACCGAACAAAGTTIAC
 Rere ATTCTGACC--AAAAAT---GATCCGGC----AC-AT-GCCGATTAACCGAACAAAGTTIAC
 Gama TT-CTGACCAGGAT-----GATCCGGC--ATA-----GCCGATCAACCGACCAGTTIAC
 Onmy TATCTGACCAA--ATAT---GATCCGGCG-----AACGCAATCAACCGACCAGTTIAC
 Sasa -TTCTGACCAAAAA-----TGATCCGGCATCAC-----GCCGATCAACCGACCAGTTIAC
 Cola TTTCTGACCAGAAAT-----GATCCGGC-CGAA-----CGCCGATCAACCGACCAGTTIAC
 Dita T-TCTGACTA-A--AT---GATCCGGCGCAC-----GCCGATCGACCGACCAGTTIAC
 Gogr T-TCTGACC--AAAA-T---GATCCGGCCTGC-----GCCGATCCACCAACCAGTTIAC
 Chsl AT-CTGACCATAAA-----GATCCGGCTTAAC-----GCCGATTAACCAACCAGTTIAC
 Atja T-TCTGACCT-A-ACA----GATCCGGCCTTTTT-AAAGCCGATCAACCGACCAGTTIAC
 Iido CTTCTGACCT-ACCA-----GATCCGGCCTT--T--AAGCCGATCGACCGACCAGTTIAC
 Auja CTTCTGACCCAAAT-----GATCCGGC-CCAA-----GCCGATCAACCAACCAGTTIAC
 Chag CCTCTGACCC---TAAT---GATCCGGCCCA---CCCGCCGATCAACCAACCAGTTIAC
 Hami CT-CTGACCTA--ACT----GATCCGGCCT----ACCGCCGATCAACCGACCAGTTIAC
 Saun --TCTGACCTTC-AT-----GATCCGGCCTACCG----GCCGATCAACCGACCAGTTIAC
 Nema TT-CTGACCATTAIA-----GATCCGGCA---A---TGCCGATCAACCGACCAGTTIAC
 Disp T-TCTGACC--ACCAAG---GAGCCGGCAATG-----CCGATCAACCGACCAGTTIAC
 Myaf CTTCTGAC--CACCTAAA--GATCCGGC--CATA---AGCCGATTAATCGACCAGTTIAC
 Lagu A-TCTGACC--ACCAAT---GACCCCGGCCCT-----GCCGACAAACCAACCAGTTIAC
 Trtr GATCTGACCTT--TAAT---GATCCGGCC-----TGCCGATCAACCAACCAGTTIAC
 Zucr TTCCTGACT--TCTAAT---GATCCGGCC-----TG--CCGATCAACCAACCAGTTIAC
 Pxja CATCTGACCTT--CAA----GATCCGGCAA-----A-GCCGATCAACCGACCAGTTIAC
 Pxlo A-TCTGACCTTCAA-----GATCCGGCAA-----GCCGATCAACCGACCAGTTIAC
 Pctr A-TCTGACC--T-GTAC---GATCCGGCAAG-----CCGATCAACCAACCAGTTIAC
 Apsa A-TTTGACCA-C-CA----GATCCGGCAGTTCC--AAGCCGATCAACCAACCAGTTIAC
 Cabe TATCTGACCTA--TA-----GATCCGGCAA-----AGCCGATCAACCAACCAGTTIAC
 Bzze CTTCTGACCAT--AA-T---GATCCGGCAA-----AGCCGATCAACCGACCAGTTIAC
 Siim CTTCTGACCAT--AAAT---GATCCGGCAA-----AGCCGATCAACCAACCAGTTIAC
 Ctru CATCTGACCATCAA-----GATCCGGC-CAAAG-----CCGATCAACCAACCAGTTIAC
 Dpbr A-TCTGACCA-G-CAA----GATCCGGC--CAA-----GCCGATCAACCAACCAGTTIAC
 Caki T-TTTGACTTTAAAAAT---GATCCGGCTACAA-----CCGATTAACCAACCAGTTIAC
 Phja A-TCTGACC--T--TAC---GATCCGGTT-AC-----CCGATTAACCAACCAGTTIAC
 Brsp --TCTGACTTTATTA-----GATCCGGTTAATTA----CCGACTAACCAACCAGTTIAC
 Gamo ATTCTGACCTTTTCT----GATCCGGC-TATA-----ACCCGATCAACCAACCAGTTIAC
 Lolo TT-CTGACTTTTC-T-----GATCCGGC-----TATAACCCGATCAACCAACCAGTTIAC
 Batr --TGTAACCTC--AA-----GACCCAATAACA-----ATTGATCATTCAATTAAAGTTIAC
 Prmy TATCTGACCT-CTAA-----GACCACCA-----TGCCTGATTAATCAACCAGTTIAC
 Loli CTTCTGACCATAAAT-----GATCCGGCAGCAAG-----CCGATTAACCAACCAGTTIAC
 Loam AT-CTGACCAAAAA-----GATCCGGCCTAAA-----GCCGATCAACCGACCAGTTIAC
 Chab CTTCTGACC--ACCAA----GACCCCGGC-----A-A-GGCCGATCCACCGACCAGTTIAC
 Chto T-TCTGACC--ACCAA----GACCCCGGCAA-----GCCGATCCACCGACCAGTTIAC
 Majo A-TCCGACC--ACAAT---GATCCGGCC--AA----GCCGATCAACCGACCAGTTIAC
 Hlst TATCCGACCA-ACAAT---GATCCGGCTA-----A--GCCGATCAACCAACCAGTTIAC
 Clpe T-TCTGACCT---TAAA---GATCCGGCA-----TGGCCGATCAACCGAACAGTTIAC
 Mlmr TTTCTGTCC--ATAA-A---GACCCCGGCT-----AAGGCCGATCAACCAACCAGTTIAC
 Crcr -TTCTGACCAAAAAA---ATGATCCGGC-AAT-----GCCGATTAACCGACCAGTTIAC
 Muce TT-CTGACCAAAAAAAT---GATCCGGC--CAAT----GCCGATTAACCGACCAGTTIAC
 Bege TTTCTGACCA-TCAA----GATCCGGC---C--C--AAGCCGATCAACCAACCAGTTIAC
 Mela -CTCTGACCCTCA-----AGATCCGGCTTTA-----CCGATCAACCAACCAGTTIAC
 Hats ATTCTGACCAT--AA-T---GATCCGGCAC-----CGCCGATCAACCGAACAGTTIAC
 Orla CATCTGACC--TTTA-T---GATCCGGCC-----TG-GCCGATCAACCGACCAGTTIAC

Cosa T-TATGACCA-A-AAAT---GATC**CCG**CAATG-----**CCG**ATCAAC**C**AATC**GAGTT**AC
 Exsp T-TCTGACCA----GAA---GATC**CCG**-----CC--AAG**CCG**ATCAAC**C**GACC**AAGTT**AC
 Depa AT-TTGACCAAAAAT-----GATC**CCG**CA---A---TG**CCG**ATTAAC**C**AACC**GAGTT**AC
 Rima C-TCTGACC--CCAA-A---GATC**CCG**AC---A---CA**CCG**ATCAAC**C**AACC**AAGTT**AC
 Fuol A-TCTGACC--TT-AAT---GATC**CCG**CA--GT-----G**CCG**ATCAAC**C**AACC**GAGTT**AC
 Gmaf T-TCTGACC--CT--AA---GATC**CGA**CACA-----G**TCC**ATCAAC**C**GACC**AAGTT**AC
 Xeei T-TCTGACCT-T-ACA----GATC**CCG**-----T--ATTA**CCG**ATCAAC**C**AACC**AAGTT**AC
 Pros C-TCTGACC--ATCAAT---GATC**CCG**TATA-----A**CCG**ATCAAC**C**GACC**GAGTT**AC
 Scmi CATCTGACCA-TTAAC----GATC**CAG**CAA-----G**CTG**ATCAAC**C**GACC**AAGTT**AC
 Rolo C-TCTGACC--AG-AAT---GATC**CCG**--CAAA----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Cere CCTCTGACCAA--AAT----GATC**CCG**AAA-----TA**CCG**ATCAAC**C**AACC**GAGTT**AC
 Daga ATTCTGACC--AA-AAC---GATC**CCG**-CTG-----AGG**CCG**ATCAAC**C**GACT**GAGTT**AC
 Anco -TTCTGAC---CAAA---ATGATC**CCG**CAATG-----**CCG**ATCAAC**C**GACC**GAGTT**AC
 Dmve --TCTGACCA-AAAT-----GATC**CCG**CAATG-----**CCG**ATCCAC**C**GACC**GAGTT**AC
 Dmar ATTCTGACCA-AAAT----GATC**CCG**CA---A-C--G**CCG**ATCCAC**C**GACC**GAGTT**AC
 Anka CTTCTGACCA-TTA-T----GATC**CCG**CAGC-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Moja T-TCTGACCA-A-CA-T---GATC**CCG**C-AAC-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Hoja T-TCTGACCA-A--TAT---GATC**CCG**--CAAC-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Bede CT-CTGACCATAAAT-----GATC**CCG**T-----ACTA**CCG**ATCAAC**C**AACC**GAGTT**AC
 Bosp C-TCTGACCA-T-AAAT---GATC**CCG**TAC-----TA**CCG**ATCAAC**C**AACC**GAGTT**AC
 Mysp A-TCTGACCA-T-AAAT---GATC**CCG**CACA-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Osja A-TCTGACCATAAAT-----GATC**CCG**CACA-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Sgro TATCTGACC--AAAAAT---GATC**CGA**C-----A-CTAG**TCC**ATCAAC**C**AACC**GAGTT**AC
 Pzpa --TCTGACCTACAAT-----GATC**CCG**--GCA-----A**CCG**ATCAAC**C**AACC**AAGTT**AC
 Zeja ATTCTGACCTATAT-----GATC**CCG**-GCAA-----**CCG**ATCAAC**C**AACC**AAGTT**AC
 Znne ATTCTGACCT--ATAT---GATC**CCG**G-----A-A-A**CCG**ATCAAC**C**AACC**GAGTT**AC
 Zefa T-TCTGACC--T-AAAT---GATC**CCG**GCA-----A-**CCG**ATCAAC**C**AACC**GAGTT**AC
 Acni ATTCTGACCT-A-AAT---GATC**CCG**GC-----AA-**CCG**ATCAAC**C**AACC**GAGTT**AC
 Ncrh T-TCTGACC--TA-AAT---GATC**CCG**GC--AA-----**CCG**ATCAAC**C**AACC**GAGTT**AC
 Agca TTTTTGACCAATA-A-----GATC**CCG**---CAA---CG**CCG**ATCAAC**C**GACC**GAGTT**AC
 Hydy ATTCTGACCA-AAAA-----GATC**CCG**CAAC-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Gsac TTTCTGACCTAAAA-----GATC**CCG**-C-AAT---G**CCG**ATCAAC**C**GACC**TAGTT**AC
 Pevo T-TCTGACC--TTA-AT---GATC**CCG**CATC-----G**CCG**ATCAAC**C**AACC**GAGTT**AC
 Hiku A-TTTGACCC-----AT---GATC**CCG**C-AAC-----AG**CCG**ATCAAC**C**AACC**TAGTT**AC
 Inpa TT-CTGACCAA--ACA---GATC**CCG**C-----ACAG**CCG**ATCAAC**C**GACC**AAGTT**AC
 Auch CTTCTGATCTAATATT----GATC**CCG**CCT----CACGG**CCG**AACAAC**C**GACC**GAGTT**AC
 Fico T-TCTGACCA-G-CAA---GATC**CCG**TA-----CAT**CCG**ATCAAC**C**GACC**GAGTT**AC
 Macs TTTCTGACCAT---ACA---GATC**CCG**CAA-----AG--**CCG**ATCAAC**C**AACC**GAGTT**AC
 Moal CTTCTAACCATAATA-----GACC**CCG**---AAT---AC**CCG**ATCTT**C**CAACA**AAGTT**AC
 Syma -TTCTAACCATTCAACACAAGACC**CCG**CAAC-----G**CCG**ATCTAC**C**AACT**AAGTT**AC
 Maf r T-TCTGAC---T-ACAA---GATC**CCG**CAATA-----**CCG**ATCAAC**C**AACC**AAGTT**AC
 Dcpe T-TCTGACC--ACA--C---GATC**CCG**CAAT-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Dct i T-TCTGACC--AC--AC---GATC**CCG**CAAC-----G**CCG**ATCAG**C**GACC**GAGTT**AC
 Hehi AT-CTGACCAATAA-----GATC**CCG**C--AAT---G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Stam --TCTGACCAGC-AA-----GATC**CCG**CAAT-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Hogi TGTCTGACCA-G-CA-----GATC**CCG**CA-----AAG**CCG**ATCAAC**C**GACC**CAGTT**AC
 Erzo CTTCTGACCAGCAA-----GATC**CCG**-C-AA-----TG**CCG**ATCAAC**C**GACC**GAGTT**AC
 Hxot ATTCTGACCAACAA-----GATC**CCG**-CAA-----CG**CCG**ATCAAC**C**GACC**GAGTT**AC
 Core T-TCTGACC--AACA-A---GATC**CCG**CA-AT-----G**CCG**ATCAAC**C**GACC**GAGTT**AC
 Apve --TCTGACCA-ATAA-----GATC**CCG**C-AAT-----G**CCG**ATCAAC**C**GACC**AAGTT**AC
 Lat j -TTCTGGCCAA--CAAT---GATC**CCG**CAA-----TG**CTG**ATCAAC**C**GACC**AAGTT**AC
 Laja T-TCTGACC---AACAA---GATC**CCG**CAACG-----**CCG**ATTAAC**C**GACC**GAGTT**AC

Syja TTTCTGACCT-ACTA-----GATCCCGCAAC-----GCCGATCAACCGACCAGTTIAC
 Epme CTTCTGACCAA--TAA----GATCCCGCAA-----CGCCGATCAATCGACCAGTTIAC
 Grse -TTCTGACCAAC-----AGATCCCGCAAT-----GCCGATTAATCGACCAGTTIAC
 Clja T-TCTGACT--ATGCAC---GATCCCGCA-AT-----GCCGATCTACCGACCAGTTIAC
 Ogcy T-TCTGACC--A-AA-A---GATCCCGCA---A---AGCCGATCAACCGACCAGTTIAC
 Plna T-TCTGACCT-C-TCGT---GATCCCG-----CC-AAAGCCGATCAACCGACCAGTTIAC
 Lema TTTCTGACC--AACAAA---GATCCCGC-----AA-C--GCCGATCAACCGACCAGTTIAC
 Etzo T-TCTGACC--AATA-A---GATCCCGCA-AC-----GCCGATCAACCGACCAGTTIAC
 Apse T-TCTGACC--AAGTAT---GATCCCGCAA-----AGCCGATCAACCGACCAGTTIAC
 Epde --TCTGACCAG-CAG----GATCCCGCAATG-----CCGATCAACCGACCAGTTIAC
 Slja T-TCTGACTA-A-AAGT---GATCCCGCAAC-----GCCGATTAACCGACCAGTTIAC
 Bsja T-TCTGACC--T-ATTA---GATCCCGCTTA-----CGCCGATCAACCGAACAGTTIAC
 Ecna CTTCTGACCAA--AAAT---GATCCCGC-----AATGCCGATCAACCGACCAGTTIAC
 Cohi -TTCTGACCATAAA-----TGATCCCGCATT-----GCCGATTAACCGACCAGTTIAC
 Caar T-TCTGACCC-T-ATAT---GATCCCGCTTC-----TGCCGATCAACCGACCAGTTIAC
 Came --TCTGACCTCTTAC-----GATCCCGCTCTC-----GCCGATCAACCGACCAGTTIAC
 Mema CTTCTGACCAA--AAAT---GATCCCGCAA-----CGCCGATCAACCGACCAGTTIAC
 Lenu A-TCTGACCA-A-CAAT---GATCCCGCAAC-----GCCGAACGACCGACCAGTTIAC
 Brja T-TCTGACCA-A-ATAT---GATCCCGCAGTG-----CCGATCAACCGACCAGTTIAC
 Plma --TCTGACCATA-AA-----GATCCCGCAAT-----GCCGATCAACCGACCAGTTIAC
 Emst TTTCTGACCA-ATAA-----GATCCCGCA-----ACGCCGATCAACCGACCAGTTIAC
 Ptti T-TCTGACCA-T-C-TA---GATCCCGCAAGA-----CCGATCAACCGACCAGTTIAC
 Losu ACTCTGACCT-A-ATAA---GATCCCGCAAG-----GCCGATCAACCGACCAGTTIAC
 Geoy AATCTGACTTTTTAA----GATCCCGCATA-----GCCGATCAACCGACCAGTTIAC
 Dipi TT-CTGACCTTAA-----GATCCCGCA---A---AGCCGATCAACCGACCAGTTIAC
 Pama ATTCTGACCAA--TAA----GATCCCGCAC-----ACGCCGATCAACCGACCAGTTIAC
 Leob T-TCTGACCA-A-AAAT---GATCCGACA-----ACGTCCGATCAACCGACCAGTTIAC
 Neba CTTCTGACCTTAAGT----GATCCGACAAA-----GTCCGATCAACCGACCAGTTIAC
 Pdpi T-TCTGACC--AGAAAT---GATCCCGCAAC-----GCCGATCAACCGACCAGTTIAC
 Nimi -TTCTGACCAATAC-----AGATCCCGCAAA-----GCCGATCAACCGACCAGTTIAC
 Uptr T-TCTGACC--AAT-AA---GATCCCGCAAT-----GCCGACCAACCGACCAGTTIAC
 Pesc TTTCTGACC--T-TAT---GATCCCGCAA-----TGCCGATTAACCGACCAGTTIAC
 Baar -TTCTGACCTACTCA---ATGACCCGCA-----ACGCCGATCAACCGACCAGTTIAC
 Moar T-TCTGACC--AACAA----GATCCCGCA-----AAGCCGATCAACCGACCAGTTIAC
 Toja TTTCTGACC--AAAAAT---GATCCCGC-----AGTCCGATCAACCGAACAGTTIAC
 Chau AT-CTGACTAA--ACAA---GATCCCGC-----AATGCCGATCAACCGACCAGTTIAC
 Chse CCTCTGACCA-AAAAT----GATCCCGCA-----ATGCCGATCAACCGACCAGTTIAC
 Enar TTTCTGACCA-ATCA-----GATCCCGCAAC-----GCCGATCAACCGACCAGTTIAC
 Hpty ATTCTGACC--AATAA----GATCCCGCAG-----CG--CCGATCAACCGACCAGTTIAC
 Nana TT-CTGACCTT-AT-----GATCCCGCAC-----ACGCCGATCAACCGACCAGTTIAC
 Mcst TTTCTGACCA-GTAA-----GATCCCGCA-----GAGCCGATCAACCGACCAGTTIAC
 Rhox T-TCTGACCA-A--ACA---GATCCCGCATAG-----CCGATCAACCGACCAGTTIAC
 Opfa TTTCTGACCAA--TCA----GATCCCGCAA-----CGCCGATCAACCGACCAGTTIAC
 Paar T-TCTGACCAAATA---GATCCCGCAA-----AGCCGATCAACCGACCAGTTIAC
 Gozo TT-CTGACCAA--TAA----GATCCCGC-----AGCGCCGATCAACCGACCAGTTIAC
 Ackr T-TCTGACC--TCCA----GACCCGACCCCC----GCCGATCAACCGACCAGTTIAC
 Elev AT-CTGACCAC--AA-----GATCCCGCA---A---TGCCGAACAACCGACCAGTTIAC
 Trdu T-TCTGACC--AA-TAA---GATCCCGCACATA---GCCGATCAACCGACCAGTTIAC
 Amoc ATTTTGACCAACTATGT---GATCCCGCTT----AACGCCGATCAACCGACCAGTTIAC
 Hame T-TCTGACC----ACCA---GATCCCGCAA-----AGCCGATCAACCGACCAGTTIAC
 Chso TACTTGACC--TTTGA---GATCCCGCAT-----AAGCCGATCAACCGACCAGTTIAC
 Lyto TT-CTGACCAGCAA-----GATCCCGC--AAT----GCCGATCAACCGACCAGTTIAC

Encr T-TCTGACCA-G-C-AA---GATC**CGG**CAATG-----**CCG**ATCAAC**G**GACC**GAGTT**AC
 Bvar TTTCTGACCA-TAA-----GATC**CGG**---CAG---CG**CCG**ATCAG**C**AACC**AAGTT**AC
 Noco TTTTTGACCT--A-AA---GATC**CGG**C-----A-ATG**CCG**ATCAAC**G**GACC**GAGTT**AC
 Chsp A-TCTGACC--CACATA---GATC**CAG**CACATC---AG**CTG**ATCAAC**G**AAAC**CAGTT**AC
 Arja T-TCTGACCA-G-T-AA---GATC**CGG**CA-AT-----G**CCG**ATCAAC**G**GACC**GAGTT**AC
 Pase CCTCTGACTTA--TAAT---GATC**CGG**CAA-----TG**CCG**ATCAAC**G**GACC**AAGTT**AC
 Trel T-TCTGACCA-T-A-AT---GATC**CGG**C-CA-----AG**CCG**ATTAAT**G**GAAC**TAGTT**AC
 Lifa T-TTTGACCT-A--AC---GACC**CGG**CAAAG-----**CCG**ATCAAC**C**AACC**AAGTT**AC
 Acur TATCTGACCCA---TA---GATC**CAG**CAA-----AG--**CTG**ATCAAC**G**GACC**CAGTT**AC
 Ampe TTTCTGACC--AACAA---GATC**CGG**CAA-----TG--**CCG**ATCAAC**G**GACC**GAGTT**AC
 Urja CTTCTGACCA-ATTA-----GATC**CGG**CA-----AAG**CCG**ATTGAC**C**AACC**AAGTT**AC
 Enet CTTCTGACCAAAACC-----GATC**CGG**-CGATT---TG**CCG**ATCAAC**C**AATC**CAGTT**AC
 Ptbr A-TTTGACCTAAGAT-----GATC**CGG**CTT-----AG**CCG**ATCAAC**G**AAAC**CAGTT**AC
 Safa A-TCTGACCT-A-ATCT---GATC**CGG**--CTCAC---TG**CCG**ATTAAC**C**AAAC**CAGTT**AC
 Icae TTTCTGACC--AGTAA---GATC**CGG**--CA-----ATG**CCG**ATCAAC**G**GACC**GAGTT**AC
 Asmi CTTTTGACC--ACCA-----GATC**CGG**C----AA-ATAG**CCG**ATTAAC**C**AACC**AAGTT**AC
 Foal CTTCTGACA--TAAT---GATC**CGG**CC-----CG**CCG**ATTAAC**C**AAAC**GAGTT**AC
 Drze ATTCTGACC--TTAT---GATC**CGG**C-----AAAG**CCG**ATTAAC**G**GACC**AAGTT**AC
 Rhas T-TCTGACC--A-ACAA---GATC**CGG**CA-AC-----G**CCG**ATCAAC**G**GACC**GAGTT**AC
 Elac AATCTGACCA-GAAAT---GACC**CGG**---C--A-A-AG**CCG**ATCAAC**C**AACC**CAGTT**AC
 Kugu TATCTGACCA-TAAA-----GATC**CGG**CATG-----A**CCG**ATCAAC**G**GACC**GAGTT**AC
 Plor TTTCTGACC--CATAT---GATC**CGG**C---AA-C--G**CCG**ATCAAC**G**GACC**GAGTT**AC
 Sgun TT-CTGACCAATAA-----GATC**CGG**-CAAA-----G**CCG**ATCAAC**G**GACC**GAGTT**AC
 Zaco T--CTGACCAATTA-----GATC**CGG**CAG-----TG**CCG**ATCAAC**C**AACC**CAGTT**AC
 Zbfl T-TCTGACC--AATCAG---ATC**CGG**CAAAG-----**CCG**ATCAAC**G**GACC**GAGTT**AC
 Spba T-TCTGACCTAAATT---GATC**CGG**CTAT-----G**CCG**ATTAAC**G**GACC**AAGTT**AC
 Game CTTCTGACCAA---TAA---GATC**CGG**CAA-----CG--**CCG**ATCAAC**G**GACC**GAGTT**AC
 Thth AT-CTGACCAA-TAA---GATC**CGG**CAAC-----G**CCG**ATCAAC**G**GACC**GAGTT**AC
 Xigl --TCTGACCAATCAA-----GATC**CGG**CAATG-----**CCG**ATCAAC**G**GACC**AAGTT**AC
 Hyja -TTTTGACCAATAA-----AGATC**CGG**CAAC-----G**CCG**ATCAAC**G**GACC**AAGTT**AC
 Psan TTTTTGACCA-TAAACA---GATC**CGG**CA-----AAG**CCG**ATTAAC**G**GACC**AAGTT**AC
 Cupa T-TCTGACC--AATAA---GATC**CGG**CAAC-----G**CCG**ATCAAC**G**GACC**GAGTT**AC
 Mpch ATTCTGACCA-TTA-----GATC**CGG**CAAT-----G**CCG**ATCAAC**G**GACC**GAGTT**AC
 Char -ATCTAACCA--AA-----AGATC**CGG**CATG-----G**CCG**ATCAAC**C**AACC**GAGTT**AC
 Pser A-TCTGACCA-A-TAGA---GATC**CGG**CAA-----G**CCG**ATTAAC**C**AACC**AAGTT**AC
 Prol ATTCTGACC--AAAC-T---GATC**CGG**C-----AACG**CCG**ATCAAC**C**AACC**AAGTT**AC
 Plbi T-TCTGACC--AAAC-T---GATC**CGG**TA---A---AA**CCG**ATCAAC**C**AACC**AAGTT**AC
 Calu A-TTCGACCT-A-TACT---GATC**CGG**CCCAA-----G**CCG**ATCAAC**G**GACC**AAGTT**AC
 Papa CTTCTGACCC-ACCTT---GATC**CGG**C-----A-ACG**CCG**ATCAAT**C**AACC**AAGTT**AC
 Suf r CATCTGAC---CTTAA---GATC**CGG**---C---A-AAG**CCG**ATCAAC**C**AACC**GAGTT**AC
 Stci CTTCTGACCT-TACT-----GACC**CGG**CA-----C-CCG**CCG**ATCAAC**G**GACC**CAGTT**AC
 Taru -ATCTGACCAATAA-----TGATC**CGG**CTAAA-----G**CCG**ATTAAC**C**AACC**GAGTT**AC
 Rala T-TCTGACCT-A--TAT---GATC**CGG**--CAAT-----G**CCG**ATCAAC**G**GACC**GAGTT**AC

* ** ***

	43'	49	50	50'	49'
Scca	CCTAGG	GATAACAGCGCAATCCTT	-TTTCA	GAGTTCCT-ATCGAC	AAAAGGGTTTACCAC
Muma	CCTAGG	GATAACAGCGCAATCCTT	-TCTCA	GAGTTCCT-ATCGAA	AAAAGGGTTTACCAC
Erca	CCCAGG	GATAACAGCGCAATCCTT	-TCCAA	GAGCCCAA-ATCGAC	AAAAGGGTTTACCAC
Pose	CCCAGG	GATAACAGCGCAATCCTT	-TCCAA	GAGCCCGA-ATCGAC	AAAAGGGTTTACCAC
Actr	CCTAGG	GATAACAGCGCAATCCTT	-TCTAA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Scal	CCTAGG	GATAACAGCGCAATCCTT	-TCTGA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Posp	CCTAGG	GATAACAGCGCAATCCTT	-TCTAA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Atsp	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGTCCCT-ATCGAC	AAAAGGGTTTACCAC
Leoc	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGTTCCT-ATCGAC	AAAAGGGTTTACCAC
Amca	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGCCCAT-ATCGAC	AAAAGGGTTTACCAC
Osbi	CCCAGG	GATAACAGCGCAATCCTT	-TCCAA	GAGCCCAT-ATCGCC	AAAAGGGTTTACCAC
Pabu	CCTAGG	GATAACAGCGCAATCCTT	-TTTAA	GAGCCCAT-ATCGAC	AAAAGGGTTTACCAC
Hial	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Elha	CCCAGG	GATAACAGCGCAATCCTT	-TCCAA	GAGTCCCTA	ATCGACAAAAGGGTTTACCAC
Mlcy	CCCAGG	GATAACAGCGCAATCCTT	-TCCAA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Algl	CCTAGG	GATAACAGCGCAATCCTT	-TCTCA	GAGTTCAT-ATCGAC	AAAAGGGTTTACCAC
Ptgi	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Alaf	CCTAGG	GATAACAGCGCAATCCCT	-TCCCA	GAGTCCAT-ATCGAC	GAAGGGGTTTACCAC
Nock	CCTAGG	GATAACAGCGCAATCCCT	-TCCCA	GAGTCCAT-ATCGAC	GAAGGGGTTTACCAC
Anja	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Gyki	CCTAGG	GATAACAGCGCAATCCCC	-TCCCA	GAGTCCGT-ATCGAC	GAGGGGGTTTACCAC
Syka	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGTCCAT-ATCGAC	AAAAGGGTTTACCAC
Opma	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGTCCCT-ATCGAC	AAAAGGGTTTACCAC
Comy	CCTAGG	GATAACAGCGCAATCCTT	-TCCCA	GAGCCCAT-ATCGAAC	AAAAGGGTTTACCAC
Sasp	CCTAGG	GATAACAGCGCTATCCTC	-TCCCA	GAGTTCAT-ATCGAC	AAGAGGGTTTACCAC
Eupe	CCTAGG	GATAACAGCGCTATCCTT	-TCCCA	GAGCCCAT-ATCGAC	AAAAGGGTTTACCAC
Enja	CCTAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCCT-ATCGAC	GAGGGGGTTTACCAC
Same	CCTAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCAT-ATCGAC	GAGGGGGTTTACCAC
Chch	CCTAGG	GATAACAGCGCAATCCTC	-TTTCA	GAGTCCAT-ATCGAC	AAGAGGGTTTACCAC
Grgr	CCTAGG	GATAACAGCGCAATCCCC	-TCCCA	GAGTCCCT-ATCGCC	GAGGGGGTTTACCAC
Caau	CCTAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCAT-ATCGAC	GAGGGGGTTTACCAC
Cyca	CCTAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCAT-ATCGAC	GAGGGGGTTTACCAC
Dare	CCTAGG	GATAACAGCGCAATCCTC	-TCTAA	GAGTCCAT-ATCGAC	GAGGGGGTTTACCAC
Cost	CCTAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCAT-ATCGAC	GAGGGGGTTTACCAC
Leec	CCTAGG	GATAACAGCGCAATCCCC	-TCCGA	GAGTTCAT-ATCGAC	GAGAGGGTTTACCAC
CrIa	CCTAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCAT-ATCGAC	GAGAGGGTTTACCAC
Clmc	CCTAGG	GATAACAGCGCAATCCCC	-TCCAA	GAGTTCAT-ATCGAC	AAGGGGGTTTACCAC
Phin	CCTAGG	GATAACAGCGCAATCCCC	-TTTCA	GAGTCCCT-ATCGAC	AAGGGGGTTTACCAC
Icpu	CCTAGG	GATAACAGCGCAATCCCC	-TTTCA	GAGTCCAT-ATCGAC	AAGGGGGTTTACCAC
Psto	CCTAGG	GATAACAGCGCAATCCCC	-TTTAA	GAGTCCAT-ATCGAC	AAGGGGGTTTACCAC
Cora	CCTAGG	GATAACAGCGCAATCCCC	-TTTTA	GAGTTCCT-ATCGAC	AAGGGGGTTTACCAC
Eisp	CCTAGG	GATAACAGCGCAATCCCC	-TCCCA	GAGTCCCT-ATCGAC	AAGGGGGTTTACCAC
Apal	CCTAGG	GATAACAGCGCAATCCCC	-TTTCA	GAGCCCTT-ATCGAC	AAGGGGGTTTACCAC
EsLu	CCTAGG	GATAACAGCGCAATCCCC	-TCCCA	GAGTCCCT-ATCGAC	GAGGGGGTTTACCAC
Dape	CCTAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCCT-ATCGAC	GAGGGGGTTTACCAC
Glse	CCTAGG	GATAACAGCGCAATCCCC	-TCCCA	GAGTCCCT-ATCGAC	AAGGGGGTTTACCAC
Naar	CCTAGG	GATAACAGCGCAATCCCC	-TCCCA	GAGTCCCT-ATCGAC	AAGGGGGTTTACCAC
Baoc	CCTAGG	GATAACAGCGCAATCCCC	-TCCCA	GAGTCCCT-ATCGAC	AAGGGGGTTTACCAC
Opso	CCTAGG	GATAACAGCGCAATCCTC	-TTTCA	GAGCCCTT-ATCGAC	AAGGGGGTTTACCAC
Alte	CCCAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCAT-ATCGAC	GAGGGGGTTTACCAC
Plap	CCCAGG	GATAACAGCGCAATCCTC	-TCCCA	GAGTCCAT-ATCGAC	GAGGGGGTTTACCAC

Plal CCTAGG GATAACAG CGCAATCCTC -TCCA GAGTCCCT -ATC GAC GAGGGGGT TACCAC
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 Rere CCTAGG GATAACAG CGCAATCCTC -TCCA GAGTCCCT -ATC GAC GAGGGGGT TACCAC
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 Gogr CCTGGG GATAACAG CGCAATCCTC -TCCA GAGTCCCT -ATC GAC GAGGGGGT TACCAC
 Chsl TCCAGG GATAACAG CGCAATCCTC -TCCA GAGTCCCT -ATC GAC GAGGGGGT TACCAC
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Cosa CCTAGG GATAACAG CGCAATCCCC -TCCTA GAGCCCAT -ATC GAC GAGAGGGTT TACCAC
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 Depa CCTAGG GATAACAG CGCAATCCTC -TCCTA GAGACCCT -ATC GAC GAGAGGGTT TACCAC
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 Fuol CCTAGG GATAACAG CGCAATCCCC -TCTTA GAGTCCCT -ATC GAC GAGGGGGTT TACCAC
 Gmaf CCTAGG GATAACAG CGCAATCCCC -TTTCA GAGCCCCT -ATC GAC GAGGGGGTT TACCAC
 Xeei CCTAGG GATAACAG CGCAATCCTC -TTTGA GAGCCCAT -ATC GAC AAGAGGGTT TACCAC
 Pros CCTAGG GATAACAG CGCAATCCCC -TCCA GAGCCCAT -ATC GAC GAGGGGGTT TACCAC
 Scmi TCTAGG GATAACAG CGCAATCCCC -TCCA GAGCCCAT -ATC GAC GAGGGGGTT TACCAC
 Rolo CCTAGG GATAACAG CGCAATCCCC -TTCCA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
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 Bede CCTAGG GATAACAG CGCAATCCCC -TTCCA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
 Bsp CCTAGG GATAACAG CGCAATCCCC -TTCCA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
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 Pevo CCTAGG GATAACAG CGCAATCCTC -TTATA GAGTCCAT -ATC GAC AAGGGGGTT TACCAC
 Hiku CCCAGG GATAACAG CGCAATTCTC -TTTGA GAGTCCCT -ATC GAC AAGAGAGTT TACCAC
 Inpa CCCGGG GATAACAG CGCAATCCCC -TTTCA GAGCCCCT -ATC GAC AAGGGGGTT TACCAC
 Auch CCTAGG GATAACAG CGCTATCCCC -TTACA GAGACCCT -ATC GAC AAGGGGGTT TACCAC
 Fico CCTAGG GATAACAG CGCAATCCCC -TTCCA GAGTCCCT -ATC GAC AAGGGGGTT TACCAC
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 Syma CCCAGG GATAACAG CGCAATCCCC -TTTAA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
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 Dcpe CCCAGG GATAACAG CGCAATCCCC -TTTGA GAGACCCT -ATC GAC AAGGGGGTT TACCAC
 Dcti CCCAGG GATAACAG CGCAATCCCC -TTTGA GAGACCCT -ATC GAC AAGGGGGTT TACCAC
 Hehi CCTAGG GATAACAG CGCAATCCCC -TTTGA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
 Stam CCTAGG GATAACAG CGCAATCCCC -TTTGA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
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 Core CCTAGG GATAACAG CGCAATCCTC -TTTGA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
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 Latj CCTAGG GATAACAG CGCAATCCCC -TTTGA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC
 Laja CCTAGG GATAACAG CGCAATCCCC -TTTGA GAGCCCAT -ATC GAC AAGGGGGTT TACCAC

Syja CCCAGG GATAACAG CGCAATCCCC -TTCTA GAGCCCAT -ATC GAC AAGGGGGT TACCAC
 Epme CCTAGG GATAACAG CGCAATCTCC -TCTTA GAGCCCAT -ATC AAC GAGGAGGT TACCAC
 Grse CCTAGG GATAACAG CGCAATCCCC -TTT TA GAGCCCAT -ATC GAC AAGGGGGT TACCAC
 Clja CCTAGG GATAACAG CGCAATCTCC -TCCA GAGTCCAT -ATC GCC GAGTGGGT TACCAC
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 Plna TCTAGG GATAACAG CGCAATCTCC -TTCAA GAGCCCCT -ATC GAC AAGGAGGT TACCAC
 Lema CCTAGG GATAACAG CGCAATCTCC -TTT TA GAGCCCAT -ATC GAC AAGAGGGT TACCAC
 Etzo TCTAGG GATAACAG CGCAATCCCC -TTT TA GAGCCCAT -ATC GAC AAGGGGGT TACCAC
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 Bsja CCTAGG GATAACAG CGCAATCCCC -TTT TA GAGCCCAT -ATC GAC AAGGGGGT TACCAC
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 Came CCTAGG GATAACAG CGCAATCCCC -TTT TA GAGCCCAT -ATC GAC AAGGGGGT TACCAC
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 Lenu CCTAGG GATAACAG CGCAATCTCC -TTCCA GAGTCCAT -ATC GAC AAGAGGGT TACCAC
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 Pesc CCCAGG GATAACAG CGCAATCTCC -TCTTA GAGACCAT -ATC GAC GAGTGGGT TACCAC
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	51	52	52'	53	
Scca	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TCCAACC-GCTA-TTAAGGGTCGTT	TGTT
Muma	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TCCAACC-GCTA-TTAAGGGTCGTT	TGTT
Erca	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Pose	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Actr	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Scal	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Posp	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Atsp	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Leoc	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCA-GCTA-TTAAGGGTCGTT	TGTT
Amca	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Osbi	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-CGAAAA-TCTA-TTAAGGGTCGTT	TGTT
Pabu	CTCGATGT	TGGATCAGGAC	ATCCTAGTGG	-CGAAAA-TTTA-CTAAGGGTCGTT	TGTT
Hial	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-CCAGCA-GCTA-TTAAGGGTCGTT	TGTT
Elha	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Mlcy	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Algl	CTCGATGT	TGGATCGGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Ptgi	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Alaf	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Nock	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Anja	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	G-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Gyki	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Syka	CTCGATGT	TGGATCAGGAC	ATCCTAATAG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Opma	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGAAGCC-GTTA-TTAAGGGTCGTT	TGTT
Comy	CTCGATGT	TGGATCAGGGC	ATCCTAACCG	-TGCAGCC-GCTC-TTAAGGGTCGTT	TGTT
Sasp	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Eupe	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Enja	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Same	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Chch	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Grgr	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-CCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Caau	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Cyca	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Dare	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Cost	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Leec	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
CrIa	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Clmc	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Phin	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-CCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Icpu	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Psto	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Cora	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Eisp	CTCGATGT	TGGATCAGGAC	ATCCTATTGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Apal	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
EsLu	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Dape	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Glse	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TCCAACC-GCTA-TTAAGGGTCGTT	TGTT
Naar	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TCCAACC-GCTA-TTAAGGGTCGTT	TGTT
Baoc	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TCCAACC-GCTA-TTAAGGGTCGTT	TGTT
Opso	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Alte	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT
Plap	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC-GCTA-TTAAGGGTCGTT	TGTT

PlaI	CTCGATGT	TGGATCAGGAC	ATCCTATTGG	-TGCAGCC	-GCTA	-ATAAGGG	TCGTT	TGTT
Sami	CTCGATGT	TGGATCAGGAC	ATCCTATTGG	-TGCAGCC	-GCTA	-ATAAGGG	TCGTT	TGTT
Rere	CTCGATGT	TGGATCAGGAC	ATCCTATTGG	-TGCAGCC	-GCTA	-ATAAGGG	TCGTT	TGTT
Gama	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Onmy	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Sasa	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Cola	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Dita	CTCGATGT	TGGATCAGGAC	ATCCCAGTGG	-TGCAGCC	-GCTA	-CTAAGGG	TCGTT	TGTT
Gogr	CTCGATGT	TGGATCAGGAC	ACCCCAATGG	-TGCAGCC	-GCCA	-TTAAGGG	TCGTT	TGTT
ChsI	CTCGATGT	TGGATCAGGGC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Atja	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Iido	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Auja	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Chag	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Hami	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Saun	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Nema	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Disp	CTCGATGT	TGGATCAGGAC	ATCCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Myaf	CTCGATGT	TGGATCAGGAC	ATCCTGATGG	-TGCAGCC	-GCTA	-TCAAGGG	TCGTT	TGTT
Lagu	CTCGATGT	TGGATCAGGAT	GTCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Trtr	CTCGATGT	TGGATCAGGAT	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Zucr	CTCGATGT	TGGATCAGGAT	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Pxja	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Pxlo	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Pctr	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Apsa	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Cabe	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Bzze	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Siim	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Ctru	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Dpbr	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Caki	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Phja	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Brsp	CTCGATGT	TGGATCAGGGC	GTCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Gamo	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Lolo	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Batr	CTCGATGT	TGGATCAAGAC	ACCCCAGTGG	-TGCAGCC	-GCTA	-CTAATGG	TCGTT	TGTT
Prmy	CTCGATGT	TGGATCAGGAC	ATCCCAATGG	-TGCAGCC	-GCTA	-TTAATGG	TCGTT	TGTT
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Loam	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
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Chto	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Majo	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Hlst	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Clpe	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Mlmr	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Crcr	CTCGATGT	TGGATCAAGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Muce	CTCGATGT	TGGATCAAGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Bege	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Mela	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Hats	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Orla	CTCGATGT	TGGATCAGGAC	ATCTAATGG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT

Cosa CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
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 Lema CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Etzo CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
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 Bsja CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Ecna CTCGATGT TGGATCAGGAC AT CCTAATGG - TCAACC - GCTA - TTAAGGG TCGTT TGTT
 Cohi CTCGATGT TGGATCAGGAC AT CCTATTGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Caar CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Came CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Mema CTCGATGT TGGATCAGGAC AT CCTAATGG - CCAGCC - ACTA - TTAAGGG TCGTT TGTT
 Lenu CTCGATGT TGGATCAGGGC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Brja CTCGATGT TGGATCAGGAC AT CCTAATGG - TCAACC - GCTA - TTCAGGG TCGTT TGTT
 Plma CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Emst CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Ptti CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Losu CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Geoy CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Dipi CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Pama CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Leob CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Neba CTCGATGT TGGATCAGGAC AT CCCATTGG - CGTAGA - GCTA - TTAAGGG TCGTT TGTT
 Pdpi CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Nimi CTCGATGT TGGATCAGGAC AT CCTAATGG - TCAACC - GCTA - TTAAGGG TCGTT TGTT
 Uptr CTCGATGT TGGATCAGGAC AT CCTGATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Pesc CTCGATGT TGGATCAGGAC AT CCTAATGG - CCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Baar CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA TTAAGGG TCGTT TGTT
 Moar CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Toja CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Chau CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Chse CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Enar CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Hpty CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTCAGGG TCGTT TGTT
 Nana CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Mcst CTCGATGT TGGATCAGGAC AT CCTAATGG - ACAGCC - ATTA - TTAAGGG TCGTT TGTT
 Rhox CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Opfa CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Paar CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Gozo CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Ackr CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Elev CTCGATGT TGGATCAGGAC AT CCTAATGG - TCAACC - GCTA - TTAAGGG TCGTT TGTT
 Trdu CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Amoc CTCGATGT TGGATCAGGAC AT CCTAATGG - TCAACC - GCTA - TTAAGGG TCGTT TGTT
 Hame CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Chso CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT
 Lyto CTCGATGT TGGATCAGGAC AT CCTAATGG - TGCAGCC - GCTA - TTAAGGG TCGTT TGTT

Encr	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Bvar	CTCGATGT	TGGATCAGGAC	ATCCCAGTAG	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Noco	CTCGATGT	TGGATCAGGAC	ATCCTATTGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Chsp	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Arja	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Pase	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Trel	CTCGATGT	TGGATCAGGAC	ATCCTACTGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Lifa	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-ACTA	-TTAAGGG	TCGTT	TGTT
Acur	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Ampe	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Urja	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGTAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Enet	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Ptbr	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Safa	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Icae	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Asmi	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Foal	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTC	-TTAAGGG	TCGTT	TGTT
Drze	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Rhas	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Elac	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Kugu	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Plor	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Sgun	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Zaco	CTCGATGT	TGGATCAGGAC	ATCCTAATGA	-TGCAGCC	-GTTA	-TTAAGGG	TCGTT	TGTT
Zbfl	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Spba	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Game	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Thth	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTC	-TTAAGGG	TCGTT	TGTT
Xigl	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Hyja	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Psan	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Cupa	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Mpch	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Char	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Pser	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-CCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Prol	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Plbi	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Calu	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Papa	CTCGATGT	TGGATCAGGAC	ATCCCAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Sufr	CTCGATGT	TGGATCAGGAT	ATCCCAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Stci	CTCGATGT	TGGATCAGGAT	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Taru	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT
Rala	CTCGATGT	TGGATCAGGAC	ATCCTAATGC	-TGCAGCC	-GCTA	-TTAAGGG	TCGTT	TGTT

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	53'	51'	C'	54	54'					
Scca	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	A-GTT
Muma	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	A-GTT
Erca	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Pose	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Actr	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Scal	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Posp	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Atsp	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Leoc	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Amca	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Osbi	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	G-GTT
Pabu	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	A-GTT
Hial	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Elha	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	G-GTT
Mlcy	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Algl	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Ptgi	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	G-GTT
Alaf	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	G-GTT
Nock	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	G-GTT
Anja	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Gyki	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Syka	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Opma	CAACGA	TTAACA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	G-GTT
Comy	CAACGA	TTAATA	GCCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Sasp	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Eupe	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Enja	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	G-GTT
Same	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Chch	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Grgr	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	A-GTT
Caau	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Cyca	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Dare	CAACGA	TTAATA	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Cost	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Leec	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
CrIa	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGTCTGGT	GTA	TCCAGGTC	A-GTT
Clmc	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Phin	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Icpu	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Psto	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Cora	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Eisp	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	A-GTT
Apal	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GAAA	TCCAGGTC	G-GTT
EsLu	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Dape	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Glse	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Naar	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Baoc	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Opso	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GTA	TCCAGGTC	A-GTT
Alte	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT
Plap	CAACGA	TTAA-A	GTCCT	ACGT	GATCT	GAGTT	CAGACCGGA	GCAA	TCCAGGTC	A-GTT

Plal CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Sami CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Rere CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Gama CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Onmy CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Sasa CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Cola CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Dita CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Gogr CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Chsl CAACGA TTAA-A GCCCT ACCTGATCT GA GTT CAGGCCGGA GTAA TCCAGGCC A-GAT
 Atja CAACGA TTAACA GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 lido CAACGA TTAATA GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Auja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC AAGTT
 Chag CAACGA TTAATA GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hami CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Saun CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Nema CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Disp CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Myaf CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GAT
 Lagu CAACGA TTAA-A ATCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Trtr CAACGA TTAA-A ATCCT ACCTGATCT GA GTT CAGACCGGA GAGA TCCAGGTC A-GTT
 Zucr CAACGA TTAA-A ATCCT ACCTGATCT GA GTT CAGACCGGA GAGA TCCAGGTC A-GTT
 Pxja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
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 Apsa CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Cabe CAACGG TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Bzze CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Siim CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Ctru CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Dpbr CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Caki CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Phja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Brsp CAACAA TTAA-A GCCCT ACCTGATCT GA GTT CAGACCGGA GAAA TCCAGGTC G-GTT
 Gamo CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Lolo CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Batr CAACGA TTAATA GTCTT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTC
 Prmy CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TTCAGGTC A-GTT
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 Majo CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hlst CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Clpe CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Mlmr CAACAA TTAATA GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Crcr CAACGA TTAA-A GTCTT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Muce CAACGA TTAA-A GTCTT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Bege CAACGA TTAACA GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Mela CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hats CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Orla CAACAA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT

Cosa CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Exsp CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Depa CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GAAA TCCAGGTC A-GTT
 Rima CAACGA TTAA-A GCCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Fuol CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Gmaf CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Xeei CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Pros CAACGA TTAA-A ATCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Scmi CAACGA TTAA-A ATCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Rolo CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Cere CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Daga CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Anco CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Dmve CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Dmar CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Anka CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Moja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hoja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Bede CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Bosp CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Mysp CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Osja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Sgro CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Pzpa CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Zeja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Znne CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Zefa CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Acni CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Ncrh CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Agca CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hydy CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Gsac CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Pevo CAACGA TTAA-A ACCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hiku CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Inpa CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Auch CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Fico CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Macs CAACAA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Moal CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Syma CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Maf r CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Dcpe CAACGA TTAATA GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Dct i CAACGA TTAATA GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hehi CAACGG TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Stam CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hogi CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Erzo CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hxot CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Core CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Apve CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Lat j CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Laja CAACGA TTAA-A GTCCT ACCTGATCT GA GTT CAGACCGGA GCAA TCCAGGTC A-GTT

Syja CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Epme CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Grse CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Clja CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Ogcy CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Plna CAACGA TTAATA GTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Lema CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Etzo CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Apse CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Epde CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GAAA TCCAGGTC A-GTT
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 Bsja CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GCAA TCCAGGTC A-GCT
 Ecna CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
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 Caar CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
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 Lenu CAACGA TTAA-AGCCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Brja CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Plma CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
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 Ptti CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Losu CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Geoy CAACGA TTAACA GTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Dipi CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Pama CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Leob CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
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 Pdpi CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Nimi CAACGA TTAATA GTCCTACGTGATCTGAGTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Uptr CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Pesc CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Baar CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC G-GTT
 Moar CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Toja CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Chau CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Chse CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Enar CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Hpty CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Nana CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Mcst CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Rhox CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Opfa CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Paar CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Gozo CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Ackr CAACGA TTAACA GTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Elev CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Trdu CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Amoc CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Hame CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT
 Chso CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GCAA TCCAGGTC A-GTT
 Lyto CAACGA TTAA-AGTCCTACGTGATCTGAGTT CAGACCGGA GTAA TCCAGGTC A-GTT

Scca	TCTA-----TCTATG	-AATTT-A	TTTTTCCTAGTAC	GAAA
Muma	TCTA-----TCTATG	-AATAT-A	CTTTTCCTAGTAC	GAAA
Erca	TCTA-----TCTATG	-AAGTT-A	TTTATCCTAGTAC	GAAA
Pose	TCTA-----TCTATG	-AAGTT-A	TTTATCCTAGTAC	GAAA
Actr	TCTA-----TCTATG	-CAGTG-A	CCCTTCCTAGTAC	GAAA
Scal	TCTA-----TCTATG	-CAGTG-A	CCCTTCCTAGTAC	GAAA
Posp	TCTA-----TCTATG	-CAGTG-A	CCCTTCCTAGTAC	GAAA
Atsp	TCTA-----TCTATG	-CAATG-A	CTCTTCTAGTAC	GAAA
Leoc	TCTA-----TCTATG	-CAATG-A	CTCTTCTAGTAC	GAAA
Amca	TCTA-----TCTATG	-AAGTG-G	TTCCCCCTAGTAC	GAAA
Osbi	TCTA-----TCTATG	-TAGCT-A	CTCTTCCTAGTAC	GAAA
Pabu	TCTA-----TCTATG	-ACATG-A	CCCTTCCAGTAC	GAAA
Hial	TCTA-----TCTATG	-CAGTG-A	CCCTTCCTAGTAC	GAAA
Elha	TCTA-----TCTATG	-CAGTA-A	CCCTTCCTAGTAC	GAAA
Mlcy	TCTA-----TCTATG	-CAGTG-A	CTCCCCCAGTAC	GAAA
Algl	TCTA-----TCTATG	-AAGTG-A	CTGTTCCTAGTAC	GAAA
Ptgi	TCTA-----TCTATG	-AAGTA-A	TTTTTCCTAGTAC	GAAA
Alaf	TCTA-----TCTATG	-ATGTA-A	CTTCTCCAGTAC	GAAA
Nock	TCTA-----TCTATG	-ATGTA-A	CTTCTCCAGTAC	GAAA
Anja	TCTA-----TCTATG	-AACT--	CTTCTCCAGTAC	GAAA
Gyki	TCTA-----TCTATG	-ATCTAAC	CTACCCCTAGTAC	GAAA
Syka	TCTA-----TCTATG	-AAATTAC	TTTTTCCTAGTAC	GAAA
Opma	TCTA-----TCTATG	-ACTTTAC	TTCTCCCAGTAC	GAAA
Comy	TCTA-----TCTATG	-AAAGTGC	CTTTTCCTAGTAC	GAAA
Sasp	TCTA-----TCTATG	-AAAAA-C	CCACCCCTAGTAC	GAAA
Eupe	TCTA-----TCTATG	-T-CTA-	CCACCCCTAGTAC	GAAA
Enja	TCTA-----TCTGTA	-AAGCC-A	TCACCCCTAGTAC	GAAA
Same	TCTA-----TCTGTC	-AAGCC-A	TCCTTCCTAGTAC	GAAA
Chch	TCTA-----TCTGCA	-ATAGTTC	TTTTTCCTAGTAC	GAAA
Grgr	TCTA-----TCTGCT	-AC-GCTA	CCTTTCCTAGTAC	GAAA
Caau	TCTA-----TCTGTA	-ACGCT-A	CTTTTCCTAGTAC	GAAA
Cyca	TCTA-----TCTGTA	-AC-GCTA	CTTTTCCTAGTAC	GAAA
Dare	TCTA-----TCTGTA	-AAGCTAT	TTTTTCCTAGTAC	GAAA
Cost	TCTA-----TCTGTA	-ACGTC-A	CTTTTCCTAGTAC	GAAA
Leec	TCTA-----TCTGTA	-AAGTC-G	TTTTTCCTAGTAC	GAAA
CrIa	TCTA-----TCTGTA	-AC-GTTA	CTTTTCCTAGTAC	GAAA
Clmc	TCTA-----TCTGTA	TCAAGCCA	TTTTTCCTAGTAC	GAAA
Phin	TCTA-----TCTGTA	-ATGC-TA	TTTTTCTAGTAC	GAAA
Icpu	TCTA-----TCTGTA	-ATG-CCA	CTTTCCCAGTAC	GAAA
Psto	TCTA-----TCTGTA	-ATGCC-A	CTTTTCCTAGTAC	GAAA
Cora	TCTA-----TCTGTA	-ACGCA-A	TTTCTCCAGTAC	GAAA
Eisp	TCTA-----TCTGTA	-ATGTT-A	TTTCCTCAGTAC	GAAA
Apal	TCTA-----TCTGTA	-ATGTC-A	CTTCTCCAGTAC	GAAA
Eslu	TCTA-----TCTATG	-AA-GTAA	TCTTTCCAGTAC	GAAA
Dape	TCTA-----TCTATG	-CTATG-A	TCTTCTTAGTAC	GAAA
Glse	TCTA-----TCTATG	-ATGTA-A	CTCTCCCAGTAC	GAAA
Naar	TCTA-----TCTATG	-ATGTA-A	CTTTCCCAGTAC	GAAA
Baoc	TCTA-----TCTATG	-ATGTAAT	TTTTCCCAGTAC	GAAA
Opso	TCTA-----TCTATG	-ACGTAA	CCTTCCCAGTAC	GAAA
Alte	TCTA-----TCTGTA	-ACGCTA	CTTTTCCTAGTAC	GAAA
Plap	TCTA-----TCTGTA	-ACGCT-A	CTTTTCCTAGTAC	GAAA

Plal	TCTA-----TCTATG	-AAATG-GTCTCTCC	CAGTAC	GAAA	
Sami	TCTA-----TCTATG	-AGA-TGATCCCC	CAGTAC	GAAA	
Rere	TCTA-----TCTATG	-ACATA-CTCCTCC	CAGTAC	GAAA	
Gama	TCTA-----TCTATG	-ACGTG-ACCCTTT	CTAGTAC	GAAA	
Onmy	TCTA-----TCTATG	-AAGTG-ATGTTTT	CTAGTAC	GAAA	
Sasa	TCTA-----TCTATG	-AAGTG-ATGTTTT	CTAGTAC	GAAA	
Cola	TCTA-----TCTATG	-AAGTG-ATGTTTT	CTAGTAC	GAAA	
Dita	TCTA-----TCTATA	-AATGA-ATCTTCC	CAGTAC	GAAA	
Gogr	TCTA-----TCTATT	-AAG-TAGCCCTTC	CAGTAC	GAAA	
Chsl	TCTA-----TCTATA	-CCCC--ATCTTT	CTAGTAC	GAAA	
Atja	TCTA-----TCTATG	-ATGTA-GCTTACC	CTAGTAC	GAAA	
lido	TCTA-----TCTATG	-ATGTG-GTTTACC	CTAGTAC	GAAA	
Auja	TCTA-----TCTATG	-ACCTTGA	TCTTCC	CAGTAC	GAAA
Chag	TCTA-----TCTATG	-ACT-TGC	TCTTCT	CTAGTAC	GAAA
Hami	TCTA-----TCTATG	-GTAATGC	TCTTTT	CTAGTAC	GAAA
Saun	TCTA-----TCTATG	-GTCATGC	TCTTTT	CTAGTAC	GAAA
Nema	TCTA-----TCTACG	-TAAT-GATCTCTT	CTAGTAC	GAAA	
Disp	TCTA-----TCTACG	-CATTG-ATCTTT	CTAGTAC	GAAA	
Myaf	TCTA-----TCTACG	-CATTG-ATTTT	CTCT	CTAGTAC	GAAA
Lagu	TCTA-----TCTGTG	-AT-ATGT	TCTTTT	CTAGTAC	GAAA
Trtr	TCTA-----TCTGTG	-A-TGATA	TCTTTT	CTAGTAC	GAAA
Zucr	TCTA-----TCTGTG	-AAACT-ATCTTTT	CTAGTAC	GAAA	
Pxja	TCTA-----TCTATG	-AATTTGA	CCTTTT	CTATTAC	GAAA
Pxlo	TCTA-----TCTATG	-AA-TTGA	CCTTTT	CTAGTAC	GAA-
Pctr	TCTA-----TCTATG	-AAATG-CTCTCT	CTCAGTAC	GAAA	
Apsa	TCTA-----TCTATG	-AT-TG-TCTTTT	CTCAGTAC	GAAA	
Cabe	TCTA-----TCTGTG	-AAAACAC	CTCTGCC	TTGTAC	GAAA
Bzze	TCTA-----TCTATG	-AAACAGC	CTTTTT	CTAGTAC	GAAA
Siim	TCTA-----TCTATG	-AAAATAT	CTTCTT	CTAGTAC	GAAA
Ctru	TCTA-----TCTATG	-AAGTGA	CCTTTT	CTAGTAC	GAAA
Dpbr	TCTA-----TCTATG	-AAGTG-ACCCTTT	CTAGTAC	GAAA	
Caki	TCTA-----TCTATA	-AAAAG-TCTTTT	CTCAGTAC	GAAA	
Phja	TCTA-----TCTATA	-AAG-AGCTTTTT	TATAGTAC	GAAA	
Brsp	TCTA-----TCTATG	-AATT-GTTTT	CTCC	CTAGTAC	GAAA
Gamo	TCTA-----TCTATG	-ACAA-GCT	CTTTTT	CTCAGTAC	GAAA
Lolo	TCTA-----TCTATG	-ACAAG-CTCTTT	CTCAGTAC	GAAA	
Batr	TCTA-----TCTATA	-ACATTGC	TTTTTT	CTCAGTAC	GAAA
Prmy	TCTA-----TCTATA	-TTTTA-TTTTT	CTT	CAGTAC	GAAA
Loli	TCTA-----TCTATG	-ATGT-GATCTTTT	CTAGTAC	GCAA	
Loam	TCTA-----TCTATG	-ACATG-ATCTTTT	CTAGTAC	GCAA	
Chab	TCTA-----TCTATG	-GTGTG-ATCTTTT	CTAGTAC	GCAA	
Chto	TCTA-----TCTATG	-GTGTG-ATCTTTT	CTAGTAC	GCAA	
Majo	TCTA-----TCTATA	-ACATG-CTTTTT	CTAGTAC	GCAA	
Hlst	TCTA-----TCTATA	-ATATG-CTTTTT	CTCAGTAC	GCAA	
Clpe	TCTA-----TCTATG	-ATATG-CTTTTT	CTAGTAC	GCAA	
Mlmr	TCTA-----TCTATG	-ATATG-CTTTTT	CTAGTAC	GCAA	
Crcr	TCTA-----TCTATG	-ATACA-TTCTCCT	CTCAGTAC	GAAA	
Muce	TCTA-----TCTATG	-ATACA-TTCTCCT	CTCAGTAC	GAAA	
Bege	TCTA-----TCTATG	-TAATG-ATTTCT	CTCTAGTAC	GAAA	
Mela	TCTA-----TCTATG	-TTATG-CTTTCT	CTCTAGTAC	GAAA	
Hats	TCTA-----TCTATG	-AAATG-ATCTCT	CTCTAGTAC	GAAA	
Orla	TCTA-----TCTATG	-ACATA-CTCCCT	CTCTAGTAC	GAAA	

Cosa	TCTA-----TCTATG	-AAA-TGTCTTCCTCTAGTAC	GAAA
Exsp	TCTA-----TCTATG	-AGATG-TTCTCTTCTAGTAC	GAAA
Depa	TCTA-----TCTATG	-ATGTC-TCTTCCCTAGTAC	GAAA
Rima	TCTA-----TCTATG	-ACCGTGCCTTCTTTCAGTAC	GAAA
Fuol	TCTA-----TCTATG	-AAATA-TTTTCTTCTAGTAC	GAAA
Gmaf	TCTA-----TCTATG	-AA-GTGTCTTCTTCCAGTAC	GAAA
Xeei	TCTA-----TCTATG	-AAATG-ATTTCTTCTAGTAC	GAAA
Pros	TCTA-----TCTATG	-GTGTAATCTCTTTCTAGTAC	GAAA
Scmi	TCTA-----TCTATG	-ATGTGATCTCTTTCTAGTAC	GAAA
Rolo	TCTA-----TCTATG	-ATATG-ATCTTTTTCTAGTAC	GAAA
Cere	TCTA-----TCTATG	-GTATG-ATCTTTTCCAGTAC	GAAA
Daga	TCTA-----TCTATG	-GAGTG-ATCTTTTTCTAGTAC	GAAA
Anco	TCTA-----TCTATA	-ATATG-ATCTTTTTCTAGTAC	GAAA
Dmve	TCTA-----TCTATG	-ACAT-GCTCTTTTTCCAGTAC	GAAA
Dmar	TCTA-----TCTATG	-CTGTG-CCTCTTTTTCTAGTAC	GAAA
Anka	TCTA-----TCTATG	-CTATG-ATCTTTTTCTAGTAC	GAAA
Moja	TCTA-----TCTATG	-ATGTG-ATCTTTTCCAGTAC	GAAA
Hoja	TCTA-----TCTATG	-ATATG-ATCTTTTTCTAGTAC	GAAA
Bede	TCTA-----TCTATG	-ATGTGATCTTCTTCTAGTAC	GAAA
Besp	TCTA-----TCTATG	-ATATGATCTTCTTCTAGTAC	GAAA
Mysp	TCTA-----TCTATG	-ACATG-TCTTTTTCTAGTAC	GAAA
Osja	TCTA-----TCTATG	-ACATGTCTTTTTCTAGTAC	GAAA
Sgro	TCTA-----TCTATG	-CTATG-TCTTTTTCCAGTAC	GAAA
Pzpa	TCTA-----TCTATG	-AAAT-GCTCTTTTTCTAGTAC	GAAA
Zeja	TCTA-----TCTATG	-AAACATCTTCTTCCAGTAC	GAAA
Zzne	TCTA-----TCTATA	-AAAAT-TTCTCTCTCCAGTAC	GAAA
Zefa	TCTA-----TCTATA	-AGACGATCTCTCTCTCCAGTAC	GAAA
Acni	TCTA-----TCTATG	-AAAT-ATCTTTTTCCAGTAC	GAAA
Ncrh	TCTA-----TCTATG	-AAATA-TCTTTTTCCAGTAC	GAAA
Agca	TCTA-----TCTATG	-ACATGATCTTTTTCTAGTAC	GAAA
Hydy	TCTA-----TCTATG	-CTGTG-CCTTCTTCTAGTAC	GAAA
Gsac	TCTA-----TCTATG	-CTGTGCCTTCTTCTAGTAC	GAAA
Pevo	TCTA-----TCTATG	-AATATGGCTTTTTCTAGTAC	GAAA
Hiku	TCTA-----TCTATG	-TATGTGGCCTTCTTTCAGTAC	GAAA
Inpa	TCTA-----TCTATG	-ACA-CGCCTTTTTCCAGTAC	GAAA
Auch	TCTA-----TCTATG	-AATGTGCCCTTCTCCAGTAC	GAAA
Fico	TCTA-----TCTATG	-AAGC-ACCTTTCCCTAGTAC	GAAA
Macs	TCTA-----TCTATG	-AT-ATGCCTTTTTCTAGTAC	GAAA
Moal	TCTA-----TCTATG	-ATACAGTTTTTTTCCAGTAC	GAAA
Syma	TCTA-----TCTATG	-TTATA-CTTTTTCTAGTAC	GAAA
Mafr	TCTA-----TCTATG	-ATATG-ATCTTTTTCCAGTAC	GAAA
Dcpe	TCTA-----TCTATG	-AA-GTGTCTTTTTCTAGTAC	GAAA
Dcti	TCTA-----TCTATG	-AAGTG-TCTTTTCTAGTAC	GAAA
Hehi	TCTA-----TCTATG	-GTGTG-CCTTTTTCTAGTAC	GAAA
Stam	TCTA-----TCTATG	-ATAT-GATCTTTTTCTAGTAC	GAAA
Hogi	TCTA-----TCTATG	-AAATTACCCTTTTTCTAGTAC	GAAA
Erzo	TCTA-----TCTATG	-CTATG-CCTTTTTCTAGTAC	GAAA
Hxot	TCTA-----TCTATG	-ATATG-ATTTTTTCTAGTAC	GAAA
Core	TCTA-----TCTATG	-CTA-TGCCTTTTTCTAGTAC	GAAA
Apve	TCTA-----TCTATG	-CTAT-GATTTTTTCTAGTAC	GAAA
Latj	TCTA-----TCTATG	-CCCACGTCTTTTTTCTAGTAC	GAAA
Laja	TCTA-----TCTATG	-ACATG-ATCTTCTCTAGTAC	GAAA

Syja	TCTA-----TCTATT	-GTATG-ACCTTCTCCAGTAC	GAAA
Epme	TCTA-----TCTATG	-TAT-TGATCTTTTCTAGTAC	GAAA
Grse	TCTA-----TCTATG	-ACATG-ATCTTTTCCAGTAC	GAAA
Clja	TCTA-----TCTATG	-ATA-TGACCTTTTCTAGTAC	GAAA
Ogcy	TCTA-----TCTATG	-TAATGCCTTTCTCTAGTAC	GAAA
Plna	TCTA-----TCTATG	-ATATG-ACTTTTCTAGTAC	GAAA
Lema	TCTA-----TCTATG	-CAATG-ATTTTTTCTAGTAC	GAAA
Etzo	TCTA-----TCTATG	-ATA-TGATCTTCTCTAGTAC	GAAA
Apse	TCTA-----TCTATG	-AT-ATGTTTTTCTAGTAC	GAAA
Epde	TCTA-----TCTATG	-CTAT-GATCTTTTCTAGTAC	GAAA
Slja	TCTA-----TCTATG	-TTAT-GATCTTTTCTAGTAC	GAAA
Bsja	TCTA-----TCTATG	-ACAT-GAAGTTTTCTAGTAC	GAAA
Ecna	TCTA-----TCTATG	-AAA-TAATCTTTTCTAGTAC	GAAA
Cohi	TCTA-----TCTATG	-TAGTA-TCTTTTCTAGTAC	GAAA
Caar	TCTA-----TCTATG	-AAGCA-ATCTTTTCTAGTAC	GAAA
Came	TCTA-----TCTATG	-AAGTTAATCTTTTCTAGTAC	GAAA
Mema	TCTA-----TCTATG	-AAACG-ATCTTTTCCAGTAC	GAAA
Lenu	TCTA-----TCTATG	-ACCC-ACCCTTCCAGTAC	GAAA
Brja	TCTA-----TCTATG	-ATATG-TTTTTTCTAGTAC	GAAA
Plma	TCTA-----TCTATG	-TTATGTTCTTTTCTAGTAC	GAAA
Emst	TCTA-----TCTATG	-ATATG-ATCTTTTCTAGTAC	GAAA
Ptti	TCTA-----TCTATG	-AAGTG-ATCTTTTCTAGTAC	GAAA
Losu	TCTA-----TCTATG	-ATATGATCTTCCCAGTAC	GAAA
Geoy	TCTA-----TCTATG	-AAGTATCCTTCTCTAGTAC	GAAA
Dipi	TCTA-----TCTATG	-ACA-TGATCTTTTCTAGTAC	GAAA
Pama	TCTA-----TCTATG	-A-TGTGACCTTTTCTAGTAC	GAAA
Leob	TCTA-----TCTATG	-ATA-CGACCTTTTCTAGTAC	GAAA
Neba	TCTA-----TCTATG	-TAATGTTCCCTTCTAGTAC	GAAA
Pdpl	TCTA-----TCTATG	-AC-GCAATCTTTTCTAGTAC	GAAA
Nimi	TCTA-----TCTATG	-CTTTA-ATCTTTTCTAGTAC	GAAA
Uptr	TCTA-----TCTATG	-AA-GCGATCTTTTCTAGTAC	GAAA
Pesc	TCTA-----TCTATG	-TGT-TACTTTTCTAGTAC	GAAA
Baar	TCTA-----TCTATG	-ACATG-TCTTCTCCAGTAC	GAAA
Moar	TCTA-----TCTATG	A--TATGATCTTTTCTAGTAC	GAAA
Toja	TCTA-----TCTATG	-TTATG-ATCTTTTCTAGTAC	GAAA
Chau	TCTA-----TCTATG	-ACA-TACTTTTTCTAGTAC	GAAA
Chse	TCCA-----TCTATG	-AAAT-GTCTTTTCCAGTAC	GAAA
Enar	TCTA-----TCTATG	-ACATG-ATCTTTTCTAGTAC	GAAA
Hpty	TCTA-----TCTATG	-ACATG-ATCTTTTCTAGTAC	GAAA
Nana	TCTA-----TCTATG	-ATACG-ATCTTTTCTAGTAC	GAAA
Mcst	TCTA-----TCTATG	-ACATG-AGCTTTTCTAGTAC	GAAA
Rhox	TCTA-----TCTATG	-ACA-CGAGCTTCTCTAGTAC	GAAA
Opfa	TCTA-----TCTATG	-A-TATGATCTTTTCTAGTAC	GAAA
Paar	TCTA-----TCTATA	--ATGTGATCTTTTCTAGTAC	GAAA
Gozo	TCTA-----TCTATG	-ACA-TGATCTTTCCAGTAC	GAAA
Ackr	TCTA-----TCTATG	-CAGT-GAGCTTTTCTAGTAC	GAAA
Elev	TCTA-----TCTATG	-AAAT-GATCTTTTCTAGTAC	GAAA
Trdu	TCTA-----TCTATG	-TC-ACGATCTTTTCTAGTAC	GAAA
Amoc	TCTA-----TCTATG	-ACAT-GAGCTTTTCTAGTAC	GAAA
Hame	TCTA-----TCTATG	-TTAT-GGCCCTTTTCTAGTAC	GAAA
Chso	TCTA-----TCTATG	-A-CACCATTTTTTCTAGTAC	GAAA
Lyto	TCTA-----TCTATG	-CAGT-GCTTTTTCTAGTAC	GAAA

Encr	TCTA-----TCTATG	-CTA-TGC	TTTTTCTAGTAC	GAAA	
Bvar	TCTA-----TCTATG	-ATATGT	TCTTCCCAGTAC	GAGA	
Noco	TCTA-----TCTATG	-ACATA-T	TCTTTTCTAGTAC	GAAA	
Chsp	TCTA-----TCTATG	-ATAATAA	TATTCTT TAGTAC	GAAA	
Arja	TCTA-----TCTATG	-CTATG-A	TCTTTTCTAGTAC	GAAA	
Pase	TCTA-----TCTATG	-CCATA-C	CCTCTCC TAGTAC	GAAA	
Trel	TCTA-----TCTATT	-AAGTA-G	CCCTCTC TAGTAC	GAAA	
Lifa	TCTA-----TCTATG	-CCA-TGA	TCTTTTCTAGTAC	GAAA	
Acur	TCTA-----TCTATA	-ACATTGT	CCTTTTCTAGTAC	GAAA	
Ampe	TCTA-----TCTATG	-ATAT-GC	TCTTTCC TAGTAC	GAAA	
Urja	TCTA-----TCTATG	-AAAT-GA	TTTTTTCAGTAC	GAAA	
Enet	TCTA-----TCTATG	-CCGTGC	TTTTTTC TAGTAC	GAAA	
Ptbr	TCTA-----TCTATG	-ATTAAT	TCTTTTCTAGTAC	GAAA	
Safa	TCTA-----TCTATG	-CAATGT	CCTTTTCCAGTAC	GAAA	
Icae	TCTA-----TCTATG	-ACAT-GT	TCTTCTC TAGTAC	GAAA	
Asmi	TTTA-----CCTATG	-CAGCA-T	CCTTTCC TAGTAC	GAAA	
Foal	TCTA-----TCTATG	-ATTACCG	CTTTTTCTAGTAC	GAAA	
Drze	TCTA-----TCTATA	-AAATG-A	TTTTTTC TAGTAC	GAAA	
Rhas	TCTACCGGAGAAATCCAGGTCAGTTTCTA	TCTACC	-AAA-TGT	TCTTTTCTAGTAC	GAAA
Elac	TCTA-----TCTATG	-GAGTA-T	TCTTTTCTAGTAC	GAAA	
Kugu	TCTA-----TCTATG	-TAATG-A	TCTTTTCTAGTAC	GAAA	
Plor	TCTA-----TCTATG	-ATATG-A	TCTTTTCTAGTAC	GAAA	
Sgun	TCTA-----TCTACC	-ATGTG-A	TCTTTTCTAGTAC	GAAA	
Zaco	TCTA-----TCTATG	-ACATG-A	TCTTTTCTAGTAC	GAAA	
Zbfl	TCTA-----TCTATG	-ATTTG-A	TCTTTTCTAGTAC	GAAA	
Spba	TCTA-----TCTATG	-TAATTA	CCTTTTCTAGTAC	GAAA	
Game	TCTA-----TCTATG	-GTGTG-T	TCTTTTCTAGTAC	GAAA	
Thth	TCTA-----TCTATG	-ATATG-T	TCTTTTCTAGTAC	GAAA	
Xigl	TCTA-----TCTATG	-TTAT-GA	TCTTTTCTAGTAC	GAAA	
Hyja	TCTA-----TCTATG	-ACATG-T	TCTTTTCTAGTAC	GAAA	
Psan	TCTA-----TCTATG	-TTGTG-T	TTTTTTC TAGTAC	GAAA	
Cupa	TCTA-----TCTATG	-CT-ATGT	TCTTTTCTAGTAC	GAAA	
Mpch	TCTA-----TCTATG	-CTATG-A	TCTTTTCTAGTAC	GAAA	
Char	TCTA-----TCTATG	-AGATG-T	TTTTTTC TAGTAC	GAAA	
Pser	TCTA-----TCTATG	-AAATG-A	TCTTTTCTAGTAC	GAAA	
Prol	TCTA-----TCTATG	-TGATG-A	TCTTTTCTAGTAC	GAAA	
Plbi	TCTA-----TCTATG	-AC-ATGA	TCTTTTCTAGTAC	GAAA	
Calu	TCTA-----TCTATG	-GAGACGC	TTTTTTC TAGTAC	GAAA	
Papa	TCTA-----CCTATG	-GTGTT-A	TCTTTTT TAGTAC	GAAA	
Sufr	TCTA-----TCTATG	-ACGCAAT	CCTTTTI TAGTAC	GAAA	
Stci	TCTA-----TCTATG	-ATGTA-A	TTTATTI CAGTAC	GAAA	
Taru	TCTA-----TCTATG	-AAGTA-C	CTTTTTCCAGTAC	GAAA	
Rala	TCTA-----TCTATG	-CTAT-GA	TCTTTTCTAGTAC	GAAA	

*

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	55'	56	56'	57
Scca	GGA-CCGGAGAAAT-	GGGGCCAATAC	CATT-GGCAAGCCTC	-ATTTTC-ATCTATTCAACCAA
Muma	GGA-CCGGAAAAGT-	GGGGCCAATGC	TA-CCAAGCAGCCCC	-ATTTTCA-TCTATTCAATAAA
Erca	GGA-TTGGATAAAAT-	AGGGCTATAT	TAA-AAACAGCCCTI	-ACTTTAAC-CTGTTCAAACCA
Pose	GGA-TTGGATAAAAT-	GAGGCCTATAT	-TTAAGACAGCCTC	-CCT-TTAACCTGCTCAAGCCA
Actr	GGA-CCGGAAGGCT-	GAGGCCAATGC	TACA-AGTATGCCTC	-ACCCCA-ACCTAGTCAAAACA
Scal	GGA-CCGGAAGGCT-	GGGGCCAATGC	TACA-AGTATGCCAC	-ACCCCA-ACCTAATCAAGACA
Posp	GGA-CCGGAAGGCT-	GGGGCCAATAC	TACA-AGCAGCCCC	-ACC-CCAACCTAATCAAAACA
Atsp	GGA-CCGAAAGAAG-	AGGGCCAATTC	TCCA-AGTACGCCCTI	-ATCC-TCACCCAATCAACACA
Leoc	GGA-TCGAAAGAAG-	GGGGCTATTC	TCCA-AGCAGCCCC	-ATCCT-CATTCACCTCAACACA
Amca	GGA-CCGGGAGAAC-	AGGGCCAATGC	-TAAAAGTATGCCCTI	-ATC-CCCACCTAATCAAATCA
Osbi	GGA-CCGGAAGAAG-	GAAGCCAATAT	TCTA-AATACGCTTC	-ATTC-CTACTTAATCAAAACA
Pabu	GGA-CCGGAAGAAA-	TGAGGCCAATAC	TACA-AGCAGCCTC	-ACCTC-TACTGTTCAAAACA
Hial	GGA-CCGGAAGGAG-	GGGGCCAATTC	TAAA-AGTACGCCCC	-ACCCCA-TCTGATCAAATCA
Elha	GGA-CCGGGAGGGA-	GGGGCCAATGC	CCACAAACAAGCCCC	-ACCCCA-ATCCAATCAAAACA
Mlcy	GGA-CCGGGGAAAT-	GGGGCCAATAC	CAAA-AGCAGCCCC	-ACCCCA-ACCCGCCAAAAACA
Algl	GGA-CCGGAAAAGA-	AGGGCCAATGC	TACA-GGTAAAGCCCC	-CCTTCC-ATCTACTCTIAGGCA
Ptgi	GGA-CCGGAAAAAG-	GGGGCCAATAC	TGAA-AGCAAGCCCC	-ACCCCA-ACCTGCTCAAAACA
Alaf	GGG-CCGGAGAAGT-	GAGGCCCTAC	TAACAAACAAGCCTC	-TCCCC-ACCTGCTCAAAACA
Nock	GGG-CCGGAGAAGT-	GAGGCCCTAC	TAAA-AGCAAGCCTI	-ACCCCA-ACCTGTTCAAAACA
Anja	GGA-CCGGAATGAA-	GAGGGCCAATAC	TAAA-AGCAAGCCCTI	-ACCTCTACTGCTCAAAGCA
Gyki	GGA-CCGGAGTAAG-	GGGGCCAATCGA	GA-A-ACAAGCCCC	-ACCCCA-ACCCCTCAAAACA
Syka	GGA-CCGGAATAAA-	GGGGCCAATAC	TGAA-AGCAAGCCCC	-ACC-TCTACTACTCAAAACA
Opma	GGA-CCGGGAAAAAG-	AGGGCCAATAC	TAAA-AGCAAGCCCC	-ACCTCA-ACCCCTCAAGACA
Comy	GGG-CCGGAAAAGG-	GGGGCCAATTC	-TAAAAACAAGCCCTI	-ACCACCACCTCTCTCAAAACA
Sasp	GGG-CCGGGGTGGG-	AAGGCCCTGTI	TAAA-ACAAGCCTI	-ACCCACACCCTACTGAAAAATA
Eupe	GGG-CCGGAGTGGG-	GGGGCCCTAC	TAAAAGCAAGCCCTA	-CCTTC--ACCTGTTCAAATCA
Enja	GGA-CCGGAGTGAA-	GGGGCTATGC	TAGA-AGCAAGCCCC	-ATATC-TACTGCTCAAATCA
Same	GGA-CCGGAGTAAT-	GAGGCCTATGC	CCCG-AGCAGCCTC	-CCCCCA-ACCTGCTCAATACA
Chch	GGA-CCGGAAAAAG-	GGGGCTCAC	CTCT-GATCGCCCC	-ACTTTTA-CTGCTCAATACA
Grgr	GGA-CCGGGAAGAG-	GGGGCCAATGC	CAGA-GCAGCCCC	-GCCCT-ACCTGATCAAGCCA
Caau	GGA-TCGGAAAAGG-	GGGGCCAATGC	-TCAAGGCAAGCCCC	-ACC-CCTAAATTAATCAAAACA
Cyca	GGA-TCGGAAAAGG-	GGGGCCAATAC	TTAA-AGCAGCCCC	-ACCCCT-AAATTAATCAAAACA
Dare	GGA-TCGGAAAAGG-	GGGGCCAATAC	TAAA-AGCAGCCCC	-ACCCTA-AAATTAATCAATAAA
Cost	GGA-CCGGAAAAGG-	GAGGCCAATGC	CAAA-GGTACGCCTC	-ACCCAT-AAATTAATCAAAACA
Leec	GGA-CCGGAAAAGG-	AAGGCCAATGC	CAAA-GCAGCCTI	-ACCCCT-AAATTAATCAAGACA
CrIa	GGA-CCGGAAAAGG-	AGGGCCAATCAC	TAAA-AGTGCGCCCTI	-ACCCCT-AAATTAATCAAAACA
Clmc	GGA-CCGGAAAAAT-	AAGGTCCAATGC	CAAA-AGCAACCTI	-ACTCCA-ATTTGATCAAATCA
Phin	GGA-CCGAGAAAAAT-	GAGGCCCTGC	TTTA-AGCAGCCTC	-CCTCTAACATTAATCAAAACA
Icpu	GGA-CCGGAAAAGG-	GGGGCCAATAC	TATA-AGCAGCCCC	-ACCCCA-ACCTAATCAATACA
Psto	GGA-CCGGAAAAGG-	GGGGCCAATAT	TATT-AATACGCCCC	-ACCACT-ATTAATCAAAACA
Cora	GGA-CCGGAAAAGG-	AGGGCCAATGTI	TTA-AAACAAGCCCTI	-TATCCA-ATCTAATCAAAACA
Eisp	GGA-CCGAAGAAAT-	AAGGCCAATGC	TATA-AGCAGCCTI	-GCCCC-CACTTAATCAAATCA
Apal	GGA-CCGGAGAAGA-	AGAGCCAATAC	TATA-AGCAGCCCTI	-ACT-ATAACTTGATCATACCA
EsLu	GGA-CCGGAAAAGG-	GAGGCCCTGC	-AA-AAGTATGCCCC	-ACCCCA-ACCTAATCAAAACA
Dape	GGA-CCAAGAAGA-	GAGGCCCTGC	TAAA-GCAGCCTC	-ACCC-CTACTGTTCAAAACA
Glse	GGA-CCGGGAAAAG-	GGGGCCAATGC	TCTA-AGCATGCCCTI	-GCC-CCACTGATCAAAACA
Naar	GGA-CCGGGAAAAG-	GAGGCCTATGC	TCGA-GCAGCCTC	-ACCCCA-ACCTGATCAAGACA
Baoc	GGA-CCGGGAAGAA-	GGGGCCAATGC	TCA-AAGCATGCCTC	-ACCCCT-ACCTGATCAAGACA
Opso	GGA-CCGGGAAGAG-	GGGGCCAATGC	CCA-AAGCATGCCTC	-ACCCCA-TCCTGATCAAAACA
Alte	GGA-CCGGAAAAGG-	AGGGCCAATGC	TCCA-AGTACGCCCTI	-ACCCCG-ACCTGATCAAAACA
Plap	GGA-CCGGAAAAGG-	GGGGCCAATAC	CC-CCGTACGCCCC	-ACCCCGA-CTGATCAAGACA

Plal GGA-CCGGAGAGA- -GAGGCCATGCGCC-AGGCGACGCCCC-ACCCTCACCCTGCTGAAAGGC-A
 Sami GGA-CCGGGGTAAA- -GAGGCCATGCG-TCGAGCGACGCCCC-ACC-CTCACCTGCTGCAAGGCA
 Rere GGA-CCGGGAAGA- -GGGGCCATGCGT-CGAGCGACACCCCC-ACCCCC-ACCTGTTGCAATCA
 Gama GGA-CCGAAAAGGC- -AGGGCCAAATGCGTC-TCGCGTAAAGCCCC-ACCCCCA-ACCTGATGCAAGGCA
 Onmy GGA-CCGGAAAGA- -GGGGCCATGCGTTGA-GCGACGCCCC-ACCCCC-ACCTGATGCAAGGCA
 Sasa GGA-CCGGAAAGA- -GGGGCCATGCGTTAA-GCGACGCCCC-ATCC-CCACCTGATGCAAGGCA
 Cola GGA-CCGGAAAGA- -GGGGCCATGCGTTA-AGCGACGCCCC-ACCCCC-ACCTGATGCAAGGCA
 Dita GGA-CCGGGGAGA- -AAGGCCATGCG-CCCCGGTACGCCTT-GCC-CCTGCTCAATGCAAGCCA
 Gogr GGG-CCGGAAAGGA- -GAGGCCATGCGCCAT-CGCATGCCTT-CCCCC-AACTATGCAAAACA
 Chsl GGG-CCGGAAAGT- -GAGGCCATGCGCCCC-GTATGCCTC-CTCCCCATCAGCTGCAAAACA
 Atja GGA-CCGGGAAAA- -GGAGCCATGCG-TAAAAAGCAACTCC-TCC-CCTACCTAATGCAAAACA
 lido GGA-CCGGGAAAA- -GGAGCCATGCGTAAA-AGCGACGCTCC-TCCCC-ACCTGATGCAAGACA
 Auja GGA-CCGAGAAGA- -GGGGCCCGTGGTTA-TAGCAAGCCCC-ACCCCC-ACCTGAAACAACCA
 Chag GGA-CCGAGAAGA- -AGGGCTATGCGCACC-GGCATGCCTT-ACCCCTACCCTGTAGCAAAACA
 Hami GGA-CCGAAAAGG- -GGGGCCATATCTCA-GATACGCCCC-GCCCC-CATCTGAGCAACCCA
 Saun GGA-CCGAAAAGA- -GGGGCCATGCGCCCA-GCGACGCCCC--ACCCCTATCTGAAACAACCA
 Nema GGA-CCGAAAAGA- -GAAGCCATGCGCGAC-GCGACGCCTC-TCCCCAACCTAATGAAATAC-A
 Disp GGA-CCGAAAAGAG- -GGAGCCTCTATCTAT-GATACGCCCC-ACCCCC-TACTAATGCAACACA
 Myaf GGA-CCGAGAATA- -TGAAGCCCTCCAGAGGTATGCTTC-ACTCCC-CACTAATGCAATTCA
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 Zucr GGA-CCGAGAAGAT- -GGGGTCCATGCGTATA-GTATACCTT-TTCCCC-ACCCACTGCACTTA
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 Pxlo GGA-CCGAAAAGA- -GGGCCATACCTAA--GTACGCCTA--CCTT-ACCTAATGCAAAACA
 Pctr GGG-CCGAAGAGA- -GAGGCCATGCGCAAG-AGCGACGCCTC-CCC-CTTACCAGTCAAAACA
 Apsa GGA-CCGAAAAGA- -GAGGCCATGCGTTA-ATGCGACGCCTC-ACC-CTTACCCTATGCAATTA
 Cabe GGA-CCGGCAAAG- -GGGGTCAATGCGTGCT-AGTACACCCC-GCCCCA-AACTGCTGCACTACA
 Bzze GGA-CCGAAAAGG- -GAGGCCATGCGCCAA-AGTAAAGCCTC-ACCCCC-ACCCCTGCAACGCA
 Siim GGA-CCGAAGAAGA- -GGGGCCATAATTTA-GATACGCCCC-GCCCC-ACCTGCTGCTGCCCC
 Ctru GGA-CCGAAAAGGA- -GAGGCCATACCAA-AGCGACGCCTC-CCCCTC-ACCTAGTCAAAATA
 Dpbr GGA-CCGAAAAGGA- -GAGGCCATACCTAA-AAAGCATGCCTC-CCC-CTCACCTAGTCAAAATCA
 Caki GGA-CCTGAAAAGA- -GGGGCCAAATACCTCA-TGCGACGCCCC-ACCCCCCAAAGCTGCAAGACCT
 Phja GGA-TCTAAAAGA- -GAGGCCATACATTT-TGCGACGCCTC-TCCCC-AAAGCCCTGCAAAACC
 Brsp GGA-ATGGGAAAA- -AAGGTCTATGTATAA-GACACACCTT-TACCCC-CAAGCTGCTGCAAAACC
 Gamo GGA-CCGGAAAAAG- -GGGGCTATGCGCAA-AAAGCGACGCCCC-TCCCCT-AAAGCCCTGCAAAACC
 Lolo GGA-CCGAAAAAAG- -GGGGCTATGCGCTAA-AGCGACGCCCC-TCCCCT-GAAGCCCTGCAACACC
 Batr GGA-CCAAAAAAG- -AAGGCCATAAGATC-CTCACGCCTT--ACAATTAGTGTAGCTTCAA
 Prmy GGA-CAAAGAAAA- -AAGGCCAAATGACTCC-ATTACGCCTT-ACCTTA-AGACACTAAATTAC
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 Majo GGA-CCGAAGAAA- -AGGGCCATGCGTTGA-AGCGACGCCTT-CCCTCC-ATCTAGTCAATACA
 Hlst GGA-CCGAAAAAAG- -GGGGCCAAATGCGTAAA-AGCGACGCCTC-CTCCTC-AGTAAAGTCAATAACA
 Clpe GGA-CCGAGAAGAG- -GGGGTCCATGTGCCA-TATACACCCC-GCC-CCCACCTAATGCAAAACA
 Mlmr GGA-CCGAGAAGAG- -GGGGCCATGTGTAAA-AATACGCCCC-TCCCCCACCTAATGCAAGACA
 Cr cr GGA-CCGAGAAGAA- -AAGGCCATGCGCAA--AATATGCCTT-ACCC-TTACCAGATGCAACTA
 Muce GGA-CCGAGAAGAA- -AAGGCCATGCGC-AA-AATATGCCTT-ACCCTTA-CCTAATGCAACTA
 Bege GGA-CCGAAGAAA- -GAGGCCATGCGTCTC-AGTACGCCTC-CTCCTT-ACCTAATGCAAGACA
 Mela GGA-CCGAAGAAA- -GGGGCCTGTGTAAA-AGCGACGCCCC-CTCC-TTATCTAATGCAAAACA
 Hats GGA-CCGAAGAGAG- -GAGGCCATGCGTCTA-AGTACGCCTC-ATCCC-CACCTAATGCAAGCCA
 Or la GGA-CCGAAGAGG- -GGGGCCATGCGACC--ACTACGCCTC-AATCTC-ACCTAATGCAAGAAA

Cosa GGA-CCGAAGAAGA--AAGGCCTATGC-TTAAAACAAGCCTT-ACC-CTCACCTGATCAACCCC
 Exsp GGA-CCGAAGAGAA--GAGGTCCATTC-TTTAGGAACACCTC-CCC-CTCACCTAATCAAAACA
 Depa GGA-CCGAAGAAGA--AAGGCCTATAC-TTA-AAACAAGCCTT-ACCCTTACCCTAATCAATCCC
 Rima GGA-CCAAAAGAAA--AAGGCCATCC-CCAG-AGAACAAGCCTT-ACCCTT-ACCTGATCAAAACA
 Fuol GGA-CCGAAGAAAAG--GGGGCCAATGCTACA-AGAACAAGCCTT-ACCCTT-ATCTGCTCAAGGCA
 Gmaf GGA-TCGAAGAAA--AAGGCCTATGCTTAACAACATGCCTT-ACCCCT--CTTATCAAAACA
 Xeei GGA-CCGAAGAAA--AAGGCCAATGCT-TACAAATAAGCCTT-ATC-CCCATCTAATCAAAACA
 Pros GGA-CCGAAGAGAA--AAGGCCCTGCTAAA-GGCATACCTT-TCCCC-ACCTAATCAAGGCA
 Scmi GGA-CCGAAGAGAA--AAGGCCCTGCTAAA-GACAACCTT-CCCCC-GCCTAATCAATTCA
 Rolo GGA-CCGAAAAGAA--GAGGCCAATGCTTGA-AGTATGCCTC-GCCCC-ACCTAGTCAAGACA
 Cere GGA-CCGGAAAGAG--GGGGCCCTGCTTTA-AGTAAAGCCTC-ACCCCTA-CTAGTCAAAACA
 Daga GGA-CCGAGAAGGA--GAGGCCAATGCTACG-GACAAGCCTC-ACCCACCCTAGATCAAGGCA
 Anco GGA-CCGAAAAGAA--GAGGCCAATAC-TAAA-AGAACAAGCCTC-ACCC-CCACCTAATCAAAACA
 Dmve GGA-CCGAAAAGAA--GGGGCCAATGCTTAA-AGAACAAGCCTC--ACCTCCCCCTAATCAGAACA
 Dmar GGA-CCGAAAAGAA--GAGGCCAATGCTTGA-AGAACAAGCCTC-CCCTCC-CCCTGATCAAAACA
 Anka GGA-CCGAAAAGAA--GAGGCCTATGCTCAA-AGAACAAGCCTC-ACCC-ACCTAATCAAGACA
 Moja GGA-CCGAAAAGAA--GAGGCCAATAC-CAA-AGAACAAGCCTC-ACCCCA-CTAATCAATCA
 Hoja GGA-CCGAAAAGAA--GAGGCCAATAC-CAA-AAACAAGCCTC-GCC-CCCACCTAATCAAAACA
 Bede GGA-CCGAAAAGAA--AAGGCCAATGCTCAT-GACAAGCCTT-ACCC-ACCTAATCAAAACA
 Bsp GGA-CCGGAAAGAA--AAGGCCAATGCT-TCGAGACAAGCCTT-ACC-CCCACCTAATCAAAACA
 Mysp GGA-CCGAAAAGAA--GAGGCCTATGCT-TCACAACAAGCCTC-ACC-CTCACCTGATCAAAACA
 Osja GGA-CCGAAAAGAA--GAGGCCTATGCTAAC-AGTATGCCTC-ACCC-TACTTGATCAAAACA
 Sgro GGA-CCGAAAAGAG--AGGGCCAATGCTAAA-AGTATGCCTT-TCCCC-ACTTGATCAAAACA
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 Zeja GGG-CCGAGAAGAA--AAGGCCAATGCTTTC-AAATAAGCCTT-ACCTGT-AACTACTCAAAACA
 Znne GGA-TCGAGAAGAA--AAGGCCAATGCTTCA-AGTAAAGCCTT-ACCCCT-AACTACTCAAAACA
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 Hydy GGA-CCGAGAAGAG--GAGGCCTATAC-CCCT-GACAAGCCTC-CCCC-ACCTGATCAAGTTTA
 Gsac GGA-CCGAGAAGAG--GAGGCCTATAC-CAC-TGATAAGCCTC-TCCCTT-ACCTGTCAATTTA
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 Hiku GGA-CCAAGAAGGA--TGGGCCATGT-TTTAAAACAAGCCTC-CTTTTT-AACTACTCAAGAAA
 Inpa GGA-CCGAAAAGG--GGGGCCAATGCTACA-AGAACAAGCCTC-ACCC-AAATCTGATCAAAACA
 Auch GGA-CCGGACGGG--AGAGCCAATCC-CACA-TACAAGCCTT-TTCA-CCACCTGATCAAGCCA
 Fico GGA-CCGAGAAAGT--AAGGCCAATGCT-TTTCACAAGCCTT-TCC-CCCACCTAATCAAGGCA
 Macs GGA-CCGAAAAGAA--GAGGCCTATGCTTCCA-GACAAGCCTC-TCC-CCCACCTAATCAAGACA
 Moal GGA-CCAAAAAAC--AAGGTCCCTGCT-TAAACAAGCCTT-ATTCTA-CCCTAATCAACCCA
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 Mafr GGA-CCGAAAAGAA--GGGGCCAATGCTCAA-AGAACAAGCCTC-TCC-CCCACCTAATCAAAACA
 Dcpe GGA-CCGTAAAGAA--GAGGCCAATAC-CC-CCACAAGCCTC-CCCCTT-AGTTAATCATGTAA
 Dcti GGA-CCGTAAAGAA--GAGGCCAATGCTCTCC-GACAAGCCTC-CCCCTT-AACTAATCATATAA
 Hehi GGA-CCGAAAAGAA--GAGGCCAATGCTTCT-AAACAAGCCTC-ACCC-ACCTAATCAAGACA
 Stam GGA-CCGAAAAGAA--GAGGCCAATAC-CTCA-GACAAGCCTC--ACCCACCTAATCAAGACA
 Hogi GGA-CCGAAAAGAG--GGGGCCAATGCTTAA-AGTAAAGCCTC-ACCCCT-ACTTAATCAAAACA
 Erzo GGA-CCGAAAAGGA--GGGGCCTATAC-TGC-AAATAAGCCTC-ACCCTC-ACCTAATCAATCA
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 Core GGA-CCGAAAAGAA--GAGGCCAATGCTTAGA-GACAAGCCTC-CCCCTC-ACCTAGTCAAGACA
 Apve GGA-CCGAAAAGAA--GAGGCCCTGCTCAA-GATAAGCCTC--CCCCCTACCTAATCAAAACA
 Latj GGA-CCGAAAAGAA--AAGGCCAATGCTCACA-AGTATGCCTT-ATCCCA-CCCAATCAAAACA
 Laja GGA-CCGAGAAGAA--GAGGCCAATGCTTAA-AGTAAAGCCTC--CCCCGACCTGATCAAGACA

Syja GGA-CCGAGAAGA- -GGAGCCATATTTTA-ACACGCCCC- ACTCCT-ACCCAATCAAAACA
 Epme GGA-CCGAAAAGAG- -GGGGCCATGTCCAA-ATATGCCTC- ACCCCC-ACCTGATCA AAGCA
 Grse GGA-CCGAAAAGAA- -GAGGCCAATGCTCCA-AGCACGCCTT- ACCC-CCACCTAATCAAAACA
 Clja GGA-TCGAAAAGAG- -GAGACTCTACTCTA-AGTACGTCTC- ACCCTT-ACTGGGTCAAAACA
 Ogcy GGA-CCGAAAAGG- -GAGGCCATAC TAAATA GCA GCCCC- CCCCC-ATCTGATCAATA-G
 Plna GGA-CCGAAAAAA- -GGGGCCATGCT- TCAA GTACGCCTC- AGC-CTCACCTAATCAAAACA
 Lema GGA-CCGAAAAAA- -GAGGCCATAC TCCT-AGTATGCCTC- ACCCCC-ACCTAATCAAAACA
 Etzo GGA-CCGAGAAGA- -GAGGCCATGCTCCTA-AGCACGCCTC- ACCCCC-ACCTACTCAAAACA
 Apse GGA-CCGAAAAAA- -GAGGTCCA TGT TAA-AA GCACACCTC- CCCCTC-ACCTAATCA CACCA
 Epde GGA-CCGAAAAGAA- -GAGGCCATGCTTAA-GTATGCCTC- -ACCCCCACCTAATCAAGACA
 Slja GGA-CCGAAAAGGA- -GAGGCCATGCTCAA-AA GCACACCTC- ACCCCCA-ACCTAATCAATACT
 Bsja GGA-CCGAAAAGG- -GGAGCCCTAT- TCAA ACACGCCCC- CCC-CCCACCTAATCA AATCA
 Ecna GGA-CCGAAAAGAA- -GAGGCCAATGCTCA-A-AGCATGCCTC- CCCCTT-ACCTAATCAAAACA
 Cohi GGA-CCGAAAAGAA- -GAGGCCATAC TTCA-AGTACGCCTT- ATCC-CAATCTAATCAAAACA
 Caar GGA-CCGAAAAGAA- -GAGGCCATAC CTT-AGGCACGCCTC- CCC-CTTACCTAATCA AACCA
 Came GGA-CCGAAAAGAA- -GAGGCCATAC CCCA-GGCACGCCTC- -ACCCTTACCTAATCA AATCA
 Mema GGA-CCGAAAAGAA- -GAGGCCATGCTCAA-AGCACGCCTC- ACCC-TCACCTAATCA AAGCA
 Lenu GGA-CCGAAGCGAG- -GAGGCCATGCTCA-AAGCTAAGCCTC- ATC-CTCTTCTTATCA AACCA
 Brja GGA-CCGGAAAGAA- -GAGGCCATGCTTGA-AGCACGCCTC- CCC-CTT-CTAATCAAAACA
 Plma GGA-CCGGGAAAGA-AGAGGCCAATAC TCTA-GGCACGCCTC- -ACCCT-CTAATCAAAACA
 Emst GGA-CCGAAAAGAA- -GAGGCCATGCTCAA-GTACGCCTC- ACCCCC-ACCTAATCAAGACA
 Ptti GGA-CCGAAAAGAA- -GAGGCCCTACT- TTCAA GTACGCCTC- ACC-CCCACCTAATCA AAACA
 Losu GGA-CCATGAAGAA- -AAGGCCAATTC TTAAGTACGCCTC- ACC-CTTACTTATCAAAACA
 Geoy GGA-CCGAGAGGG- -GAGGTCTATAC TTG-AA GCACACCTC- ACCCC- TACTGCTCAAGTCA
 Dipi GGA-CCGAAAAGAA- -GGGGCCCTGCTCA-AA GTACGCCTC- TCCCT- TACTAATCAAAACA
 Pama GGA-CCGAAAAGGA- -AAGGCCCTGCTCAA-GGCACGCCTT- GCCCTCA-CTGCTCAAGACA
 Leob GGA-CCGAAAAGGA- -AAGGCCCTACT- TTAAGTACGCCTT- ACC-CTTACTTATCA CACCA
 Neba GGA-CCGAAATAA- -GGGGCCATGCTTT-AA GTATGCCCC- TCCCTA-AA TCAATCA AATTA
 Pdpi GGA-CCGAAAAGT- -GGGGCCCTACTTACAAA GCACGCCCC- CCTCCA-ACCTAATCA AACCA
 Nimi GGA-CCGAAAAGAA- -AGGGCCATACTTTTA-AGCACGCCTT- ACCC- TTACTGATCA AAGCA
 Uptr GGA-CCGAAAAGAA- -GAGGCCAATGCTCAA-AGTACGCCTC- CCCCTA-ATTTATCAAAACA
 Pesc GGA-CCGAAAAGAT- -AGAGCCATGT TCTT-AGTACCTCT- AATCTT-ACCTGATCAAAACA
 Baar GGA-CCAAGAAGA- -GAGGCCATACTTAA-AGCACGCCTC TACCCCTCACCTAATCA AAACA
 Moar GGA-CCGAAAAGAA- -GAGGCCATACTCCTA-AGTACGCCTC- ACCCCC-ACCTACTCA AATCA
 Toja GGA-CCGAAAAGAA- -GAGGCCATGCTCCA-AGCACGCCTC- ACCCTC-ACCTAACA AAGCA
 Chau GGA-CCGGAAAGAG- -GGGGCCCTACTCCCT-GGCACGCCCC- TCCCTC-ACCTTATCA GACCA
 Chse GGA-CCGAGAAGT- -GAGGCCATGCTTTCA-AGCACACCTC- CCCCTT-ACCTAATCA TATCA
 Enar GGA-CCGAAGAGAA- -GAGGCCAATTC TCCA-AGAACGCCTC- ACCCCT-ACCTAATCA AAACA
 Hpty GGA-CCGAGAAGAA- -GAGGCCATGCTTAA-AGTACGCCTC- CCCCTC-ACCTAATCAAGACA
 Nana GGA-CCGAAAAGAT- -GGGGCCATGCTCAA-GTATGCCTC- CCCCTA-ACCTGATCAAAACA
 Mcst GGA-CCGAAAAGAA- -GAGGCCATACTCAA-AGTACGCCTC- ACCCCC-ACCTAATCAAAAA
 Rhox GGA-CCGAGAAGAA- -GAGGCCATGCT- CAAA GTATGCCTC- CCC-CTAACCTAATCAAGACA
 Opfa GGA-CCGAAAAGAA- -GAGGCCATAT CCAA-GATACGCCTC- ACCCCT-ACCTAATCAAAACA
 Paar GGA-CCGAAGAGAA- -GAGGCCATACTT-AA GTACGCCTC- CCCCTC-ACTTATCA AACCA
 Gozo GGA-CCGGAAAGAG- -GGGGCCATGCTTTTA-AGCACGCCTC- ACCCTC-ACCTACTCA AAGCA
 Ackr GGA-CCGAAAAGAC- -GGGGCCCTGCTCATA-GCATGCCCC- CCCCTT-ACCTAATCA AAGCA
 Elev GGA-CCGAAAAGAA- -GAGGCCATACTTAA-AA GTACGCCTC- ACCCA-CACCTAATCA AAATA
 Trdu GGA-CCGAAAAGAA- -GAGGCCCTGT TC-CAA ATATGCCTC- CCCCTC-ATCTATCA AATCA
 Amoc GGA-CCGAAAAGAA- -GAGGCCAATACTTAA-AGCACGCCTC- CCCCCG-ACCTGATCAAAACA
 Hame GGA-CCGAAAAGAA- -GAGGCCAATGT T-AAAA ATACACCTC- ACC-CTTACTAGTCA AATCA
 Chso GGA-CCGAAAAAA- -GAGGCCATGCTT-AAAA GATGCCTT- CCCCTCAT-CTAATCA AAGCA
 Lyto GGA-CCGAAAAGAA- -GAGGCCATGCTT-AAGGTACGCCTC- CCCCTT-ACCTACTCAAGACA

Encr GGA-CCGAGAAGAA--GAGGCCAATGCTCC-AGGCACGCCTC-CCC-CTTACCTAAGTCAAAACA
 Bvar GGA-CCGAAAAGAA--GAAGTCAATATTT-TAAACACACTTC-ACCCCT-ACCCAATCAAGACA
 Noco GGA-CCGAAAAAAG- -GGGGTCACTACTA-TGTACACCCCT-ACCCCT-ACCTAATCAAAACA
 Chsp GGA-CCAAGGATAA--GAAGGCCAATGCTTAC-AGTACGCCCC-CTCCTC-A-CTATTCTATATA
 Arja GGA-CCGAAAAGAA--GAGGCCCTGCT-CTAAGGCACGCCTC-CCC-CCTACCTGTCTCAAGTCA
 Pase GGA-TCCGAGAAGG--AAGGCCCTGCTTACA-CCCATGCCCT-ATCCTC-ATCTGCTCCGTTTC
 Trel GGA-CCGGGACAGC--AGGGCCAAATGTTTC-TCAACCATGCCCC-CTCCTCA-CACACTGCCACT
 Lifa GGA-CCGAAAAGAA--GAAGGCCACTCA--AAGAGAGCTTC-ACC-CCCACCTGCTCAATCA
 Acur GGA-CCGAAAAGGA--AAGGTCCAATACTTTT-GGTACACCTC-CCCCTC-ACCTTGATCAAAA-A
 Ampe GGA-CCGGAAAAGAA--GAAGGCCAATGCTATA-AGTATGCTTC-ACCCTC-ACCTAATCTAGATA
 Urja GGA-CCGAAAAAAC- -GAGGCCCTGCTCAA-AACACGCCCC-CCCCTT-A-ITTAATCAAGCCA
 Enet GGA-CCGAAAAAG- -GGGGCCAAATGTTCTCAAGGCACGCCCC-ATCCCT-ACCTGCTCACCCC
 Ptbr GGA-TCCGAAAAGAA--AAGGCCATAATGATACC-TTCAAGCCTT-ATACTTAC-CTAATCAACCCA
 Safa GGA-CCGAAAAGAA--GAGGCCCTGCTCA-AAGGCACGCCTC-CCCACCCACCTAATCAATCA
 Icae GGA-CCGAGAAGAA--GAGGCCAATGCTCAA-GGCACGCCTC-TCCCCT--CTAATCAAAACA
 Asmi GGA-ATGGAAAAGCA--GTGGCCCTGCTTCCA-AGGCACGCCAC-CCTTTT-ACCCAATCAAAACA
 Foal GGA-CCGAAAAGGC--AAGGCCAATTCCTTT-AGTATGCCTC-CCCCCTTACCTGTCTCAATATA
 Drze GGA-CCGAAAAGAA--GGGGTCCAATGCTAAT-AGTACACCC-ACCCAT-AACTGTCTCAAGAA
 Rhas GGA-CCGAAAAGAA--GAGGCCCTGCTTAAA-AGCAAGCC-CTCCTG-ACCTGATCAAGTCA
 Elac GGA-CCGAAGAGAA--GAGGCCCTGCT-CAA-AGCAAGCCTC-ACCCCA-ACCTTAGCAAAACA
 Kugu GGA-CCGAAAAGAA--GAGGCCAATACATAAA-AGGCACGCCTT-CCCCCT-ACCTAATCAAAACA
 Plor GGA-CCGAAAAGAA--GAGGCCAATGCTTCCC-AGTATGCCTC-ACCC-ACCTGATCAAAACA
 Sgun GGA-CCGAAAAGAA--GAGGCCAATAC-ATCGGCACGCCTC-ACCCT-CACCTAATCAAACCA
 Zaco GGA-CCGAAAAGAA--GAGGTCCAATACATAAA-AGTACACCTC-ACC-TTTACCTGCTCAAAACA
 Zbfl GGA-CCGAAAAGAA--GAGGTCCAATGCTCTAA-AGGCACACTC-ACCC-ACCTAATCAAAACA
 Spba GGA-CCGAAAAGGA--GGGGCCAAATGCTTAA-AGGCACGCC-ACCCTT-ACCCAATCAAGCA
 Game GGA-CCGAAAAGAA--GAGGCCATAATGCTCAA-AGGCACGCCTC-ACCCCT--CTAATCAAAACA
 Thth GGA-CCGAAAAGAA--GAGGCCAATGCTATA-AAAAGCAGCCTC-ACCCCT--CTAATCAAAACA
 Xigl GGA-CCGAAAAGAA--GAGGCCAATGCTTGA-AGTACGCCTC--ACCC-ACCTAATCAAGCA
 Hyja GGA-CCAAAAGAA--GAGGCCAATGCTCAA-AGGCACGCCTC-ACTC-CT-CTAATCAAAACA
 Psan GGA-CCAAAAGAA--GAGGCCATAATCCAA-AGGCACGCCTC-ACTCCT--CTAATCAATCA
 Cupa GGA-CCGAAAAGAA--GAGGCCAATACCTT-AAAAGCAGCCTC-A-CCCC-TCCTAATCAAAACA
 Mpch GGA-CCGAAAAGAA--GGGGCCAAATACGTAA-AGGCACGCC-ACCCCT-ACCTAATCAAGACA
 Char GGA-CCGAAAAAAG- -GAGGCCAATGCTATA-AGTATGCCTC-CCCC-TCACCTAATCAATCA
 Pser GGA-CCGAAAAGAA--GAGGCCAATGCT-TTAAAAGTACGCC-ACC-TCTACCTAATCAAAACA
 Prol GGA-CCGAAAAGAA--GGGGCCAAATGCTTCTT-AGTACGCCTC-ACCC-ACCTAATCAAAAA
 Plbi GGA-CCGAAAAGAA--GGGGCCAAATGCTTAAA-AGTACGCCTC-ACCC-ACCTAATCAAAAA
 Calu GGA-CCGAAGAAAG- -AGGGCCAAATGCTTCCCAATGACGCCCT-ACC-CCCACCTGATCAAAACA
 Papa GGA-CCAAAAGAGAA--GAGGCCAATTTTACACA-GATACGCCTC-ACCCT-AAITTTGCTAATTAA
 Suf r GGA-CCAAAAGAA--GAGGCCCTGTTTAAA-AACACGCCTT-ACCTCG-ACTCATTCACCCA
 Stci GGA-CCAAAAGAAAT--GAAGCTCTGTTATT-AATAAGCCTC-ACTCCC-ACTTACTCACACCT
 Taru GGA-CCGAAAAGAA--GGGGCCAAATGTT-ACA-AACAAGCC-ACTC-TCACCTGCTCAATCCA
 Rala GGA-CCGAAAAGAA--GAGGCCAATGCTTTC-AAATGACGCCTC-CCC-CCCACCTAATCAAAACA

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	57'		58	58'
Scca	-AC TAAAA TAGATAA-----GAAAAGATTATCTA-----TT-		GCC CAAGAAA-AG GGT	
Muma	-AC TAAAA TAGATAAG----AAAAGATC----A--CC-----CACT		GCC CAAAAAC-AG GGT	
Erca	-AA TCAAA CAGATAAT----AAAGA-ACATATTTT-----A		ATC CAAGAAA-AG GAC	
Pose	-GA TCAAA CAGATAAT----AAAGAACATATCCC-CA-----		CCC TAGAACA-GG GTT	
Actr	-AC TAAAA TAGGTAAG----GGGGCACAACCTCC-----		CCC CTAGA-A-TA GGG	
Scal	-AC TAAAA TAGGTAAG----AGGGGCACAAATCC-----TCC-		CCC CTAGAAT-AG GGC	
Posp	-AC TAAAA TAGGTAAG----GGGG-CACAAACCTT-TC-----		CCC TAAAACA--G GGC	
Atsp	-AC TAAAA TGGAAAAG----AGGACATAACACCACA-----		GCC CCAAAAA-AG GGC	
Leoc	-AC TAAAA TGAAAAG----AGGACATA--TCAT-----TAAT		ACC CCAAAAA-AG GGT	
Amca	-AC TAAAA TAGGAAAA----AGGACACACCACCC-TT-----		ATC CAAAAACA-AG GAT	
Osbi	-AC TAAAA TAAATAAG----GAAA-GCACCTACTAA-----		CCC AGAGACA-AT GGT	
Pabu	-AC TAAAA CAA-TAAA----GGGGCATAACAAG-----CTC		GCT AAAAATA-AC AGC	
Hial	-AC TAAAA CAGA-AAG----GGGAACAATAAA-----GCA-		GCC CAAGATA-AT GGC	
Elha	-AC TAAAA AGGAAAAG----GGG--GTACAACGAA-----CACA		GCC AAAGACA-AT GGC	
Mlcy	-AC TAAAA CGGAAAAG----GGGGCACAACCCACACC-----ACAA		GCC ACAGATA-AT GGC	
Algl	-AA TAAAG TAGGAAAG----GAAGCACAATTG-TA-----A		GCC AGAGA-T-TA TGG	
Ptgi	-AA TAAAA CAGAGAAG----GGAGT-ACAATTAAGC-----A		ACC GAAGATA-AC GGC	
Alaf	-AA TAAAA CAGGAAAC----GGGGTCCAACACA-----AACAA		AAC GGAAATA-AC GAA	
Nock	-AA TAAAA CAGATAAC----GGGACGCAACAA-----ATA		ATC GAAAATA-AC GAA	
Anja	-AA TAAAA CAGACAAA----GAG-GT--ATATTAACC-----T		ACC AAAGATA-AT GGT	
Gyki	-TA TAAAG CAGATAAT----GGGAAGACACA-----ACT		GCC AGAGATA-AT GGC	
Syka	-AA TAAAA TAGATAAAA----GAGGTATACT-----TA-----ATCG		ACC AAAAATA-AT GGT	
Opma	-AA TAAAA AGGATAA----TGAGATAAACACTA-----CTT-		ACC AAAGATA-AT GGT	
Comy	-AA TAAAG AAG-TAAG----GGTGAACA--TCCA-TT-----A--		GCC AAAGATT-AT GGC	
Sasp	-AA TAAAA TAGGCATT----GGA---CACCCACACA-----A		CCA AAGAATT-TT GGC	
Eupe	-AA AGAAA CAGATAAT----TAG--ACACCTA-----CACA		GCC ATAGATA-AT GGT	
Enja	-AC TAAAG CAGGTAAG----GATAA-GCAATCCA-AC-----G		GCT CAAGAAA-AG AGC	
Same	-AC TGAAG CATGTAAG----GGGGGGCACCCC-----TCA-		GCC CGAGAAA-AT GGT	
Chch	-AC TAAAG CAGGCAAA----AAAGCTCAC---AA-CT-----CCCA		GCC AAAGACA-AA GGC	
Grgr	-AC TAAAC CGGACAAG----GGGGAGCAAA-ACT-----CT		GCC CTAGATATAG GGC	
Caau	-AA TAAAT AAAATAAAGGGAGGGCCAAAACCCCA-GC-----T		GGC CGAAATA-AG GAC	
Cyca	-AA TAAAT AAAGTAAA----GGGAGAGCCAAAATCCC-----AGCT		GGC CAAAAATA-AG GAT	
Dare	-GA TAAAA AAAATAAAA----AGGAGAGCTAAAAC-----CTCT		TCC CGAAATA-AG GGT	
Cost	-AC TAAAT TAGATAAAA----TGGAGGACCTACAATTT-----A		GGC AAAAATA-AA GGC	
Leec	-AC TAAAT TAAAGTAAA----GGGGGGCCAAA-----C-----ACG		TGC CAAAAATA-AG GGC	
CrIa	-AC TAAAT TAAAGCAAA----GGT-AGAACCCCT-----CTAC		TGC CAAAAATA-AG GGC	
Clmc	-AC TCAAC CAACAAA----AGAAAAGCACCAAA-----CCC		ACC CAAGATA-AG GGG	
Phin	-AC TCAAT TAAACAAA----AGAAGG--GCATAAA-TA-----AG		CCC CGAGATA-AG AAA	
Icpu	-AC TAAAT TAAACAAA----GGGGGGCACAAT-C-----CCA		CAT CAAGATA-AG ATT	
Psto	-AC TAAAT TAAATAAT----GAGAGGGCATAACC-----CTAA		AAT CAAGATA-AG ATT	
Cora	-AC TAAAA TAGATAAAA----GGAAAGCATAAATA-----ACA		AAT TTAGATA-AA ATT	
Eisp	-AC TAAAT TAAATAAG----GGCGG-AC-CCAATAGC-----C		TCT CTAGATA-AG TGC	
Apal	-AA TCAAT CAACAAA----ATTA-AACACTCTAC-----C		CCC CAAAAAGA-AG GGG	
EsLu	-AC TAAAA TAGACAAG----GG--GGCACGCCAC-----AACT		GCC GAAAAGA-AC CGC	
Dape	-AC TAAAA CAGGTAAG----GGGGCACATCCCT-----GT--		GCC GAAAATT-AC TGC	
Glse	-AC TAAAA CAGAAAAG----GGGGTACACCCCAAAA-----		GCC CAAGAGA-AC GGC	
Naar	-AC TAAAA CAGATGAG----GGGGCACACCCAA-----ATGA		GCC CAAGAGA-AT GGC	
Baoc	-AC TAAAA CAGAAAAA----GGG--GCACACCCAC-----TCGA		GCC CGAGAGA-AC GGC	
Opso	-AC TAAAA CAGAAAAG----GGAAC-ACATCCCAGTG-----A		GCC CGAGAGA-AT GGC	
Alte	-AC TAAAC CAGACAAG----GGGGCGCAATCCT-----TCA		GCC CTAGATA-AG GGC	
Plap	-AC TAAAC CAGACAAA----GGG---GCGCAATCCTC-----A		GCC CTAGACA-AG GGC	

Plal -AC**TAAAA**CAGACAAG----AGGGC-ATACTCAGGTG-----T**GTC**AGAGAGC-AT**GAC**
 Sami -AC**TAAAA**CAGACAAG----AGGGC**CATAC**-CCAG-GT-----G--T**GCC**AAAGAGT-AT**GGC**
 Rere -AC**TAAAA**CAAGTAAG----GGGG**CATACCC**CAGC-----TC**GCC**TCAGAGA-TT**GGC**
 Gama -AC**TAAAT**TAGACAAG----GGGGC-ACACCCTTG-C-----G**ACC**CGAGATA-AT**GGC**
 Onmy -AC**TAAAA**CAGACAAG----GGGGC**CACCA**AG-----AT-T**GCC**TAAAAGA-AC**GGC**
 Sasa -AC**TAAAA**CAGAAAAG----GGGGC**CACCA**AGATT-----**GCC**CAAAAAG-AC**GGC**
 Cola -AC**TAAAA**CAGGCAAG----GGG--GCAC**ACCA**AG-----GTGT**GCC**TGAGATA-AC**GGC**
 Dita -AC**TAAAA**TGGAAAAA----GGGGGG**CAAGCC**CG-GA-----GGC**GCC**CTAGAGA-AG**GGC**
 Gogr -AC**TAAAA**TAGAAAAG----GGGT**ACCC**CAA-C-----AA**GCC**CTAGATA-AT**GGC**
 Chsl -AC**TAAAA**CAG--AGA----GGAGC-CC-CACGGC-T-----A**GTC**TAAGAAA-AT**GAC**
 Atja -AC**TAAAT**TAGACAAG----GGGGT**ACAACC**CT---T-----T**GCC**TAAGACA-AA**GGC**
 lido -AC**TAAAT**TAGACAAG----GGGGT**ACAACC**CTTT-----T**GCC**TAAGATA-AA**GGC**
 Auja -AC**TAAAA**CAAGCAAG----AGGGC**ACGCC**CTTTTG-----GCTT**GTC**AAAGAGA-AT**GAC**
 Chag -AC**TAAAA**CAAGCAAG----AGGG**CAAGCC**CCG-----CTAT**GTT**AAAAATC-AT**AAC**
 Hami -AC**TAAAG**CAAAAAC----AGGTC**ATACCC**GAA-----CTT**GTT**TGAGAAA-AC**AAC**
 Saun -AC**TAAAA**CAAGAAAA----AGG-AC--AT**ACCC**GACA-----CTT**GTT**CAAGATA-AC**AAC**
 Nema -AA**TAAAA**TAGGAAAG----GGGGC-ATATCCTTCTT-----**GCC**CTAGAGA-AG**GGC**
 Disp -AA**TAAAA**TAGAAAG-----GGG**ACAAG**ATCC-----TGAA**ACC**CAAGAGC-AG**GGT**
 Myaf -AA**TAAAA**TAGAAAG----AAG--CAAATC-----CCAA**GCC**CAAGAAT-AG**AGC**
 Lagu -AC**TAAAG**CAGACAAG----AGGAC**ATAAG**AGGC-----AT**GCC**AAAGAGC-AT**GGT**
 Trtr -AC**TAAAG**AGGATTAA----GGGGT**ACG**-CC**CAT**-----GC--**GCC**AAAGAGC-AT**GGC**
 Zucr -GC**TAAAG**AGGCCTAA----GGGGGGT**GCC**CA-----TGC**GCC**AGAAAGC-AT**GGC**
 Pxja -AC**TAAAA**TAGGTAAA----AGGGC**ATAACC**CT-----TTA-**GCC**ACAGAAA-AT**GGC**
 Pxlo -AC**TAAAA**TAGGTAAA----AGGGC-AAA**ACCC**-TA-----A**GCC**ACAGAAA-AT**GGC**
 Pctr -AC**TAAAG**TGGACAAA----AGGG-CAT**GCCC**CAG-TT-----GG--**GCC**AAAGATA-AT**GGC**
 Apsa -AC**TAAAT**AGGGCAAAA----AGGGC**ATG**-CC**C**-TC-----CG-G**GCC**AAAATTA-AT**GGC**
 Cabe -AC**TAAAG**TGAGTAAT----GGGGC**AGC**-CC-C-----GTTA**GCC**GAAGAAT-AC**GGC**
 Bzze -AC**TCAAG**AGGACAAG----GGGGC**ATA**-CT-A-----TAGT**GCC**CCAGAGA-AT**GGC**
 Siim -AA**TCAAG**CAGCTAAC----GGGA**ACTA**-TC**AC**-----CGCA**AGT**AGAGAGA-AT**ACT**
 Ctru -AC**TAAAA**TAGGCAAG----AGGGC**CAGCC**CC-----CCT**GCC**TAAGAAA-AT**GGC**
 Dpbr -AC**TAAAA**TAGGCAAG----AGGGC**CAGCC**-----CC-----CCT-**GCC**TAAGAAA-AT**GGC**
 Caki -TA**TAAAA**CGGATGA-----GAGC**ACTTA**ATA-----ATTA**AAC**GAAGATT-AC**GGA**
 Phja -AA**TAAAG**TGGGCAAAA----GAGGCTT**AAAA**-T-----TC**GCC**CCCGAGA-AG**GCT**
 Brsp -AA**TAAAA**AGGATAAG---GGA-AC--ATGTT**AAAT**T-----TAC**CTA**GAAGGTA-GC**AGA**
 GamO -AA**TAAAG**CGGATAAG----GGG--GCTT**AAAA**-----GAC**CCC**AAAAAGA-AT**GGG**
 Lolo -AA**TAAAG**CGGACAA-----GGGGGCTT**AAAA**AGA-----C**CCC**AAAAAGA-AT**GGG**
 Batr -AC**TGCAC**ACAACAAT---AAA-ACTA**ATAG**TAA**ACC**-----ACT**CGT**TCAGACA-AC**TC**
 Prmy -CC**TAAAA**TGTTACA----AGGA-AT**ATTC**-----CC**TCA**TTTAAAG-AC**CC**
 Loli -AC**TTAAT**CTGATAAT---AGA-GC--ACA--**ACT**-----TCC**CCA**AAAGAGA-AT**TGG**
 Loam -AC**TAAAT**TAGACAAG----AGGAC-AT**ACCT**GT**CC**-----A**GCC**AAAGAAA-AT**GGC**
 Chab -AC**TAAAA**TAGGCAAAA----AGGGC**ATTAC**CC-----CC**GCC**TGAAATA-AC**GGC**
 Chto -AC**TAAAG**TAGGCAAAA----AGGGC**ATTG**C**ACC**-----CC**GCC**TGAAATA-AC**GGC**
 Majo -AC**TAAAC**TAGACAA-----GGAGG**CATC**CC-----GCAT**GCC**TTAGATATA**GGC**
 Hlst -AC**TCAAC**TTAATAAG---AGGAC**AT**-CCTT**AT**-A-----T**GCC**TAAAAAC-AA**GGC**
 Clpe -AC**TAAAA**TAGGCAAG---AGGG-CAT**ACCT**GT**C**-AC-----**CCC**ATAAATA-AT**GGC**
 MImr -AC**TAAAA**TAGGCAAT---AGGAC**ATACC**CT**AT**-----TTAC**GCC**TGAGATA-AC**GGC**
 CrCr -AC**TAAAA**TAGGCAAAA----AGGGCGT**CCC**CT**AT**-----**GCT**ACAGATA-AT**AGC**
 Muce -AC**TAAAA**TAGGCAAAA----AGGGC-GT**CCCC**AA-----T**GCT**ACAGATA-AT**AGC**
 Bege -AC**TAAAA**TAGGCAAAA----AGGGC**ATGCC**CC**CC**-----A**GCC**TGAGATA-AC**GGC**
 Mela -AC**TAAAT**TAAGACAAA----AGGAC**GTACC**CC**CC**-----C**GTC**TAAGAAA-AT**GAC**
 Hats -AC**TAAAC**TAGGCAAG---AGGAC**ATA**-CCT**C**-----TTAT**GCC**TTAGATA-AT**GGC**
 Orla -AC**TAAAT**TAAGACAAG---AGA**ATAT**ATCT-----TGA**GTC**ATAGAAA-AT**GAC**

Cosa -AC**TAAAGCAG**GCAAA----AGAACATAA-TACC-TT-----A**TTC**GAATAAA-AT**GAT**
Exsp -AC**TAAAA**TAGGCAAA----AGGACATATC-CTT-AA-----**GCC**GTAAAGA-AC**GGC**
Depa -AC**TCAAT**TAGGTAAG----AGAGG-ACATCATC-----CT**TCC**AAAGATA-AT**GGC**
Rima -AC**TAAAA**CAGATAAA----AGAGCACAAC-TTT-----ACAGAC**GAC**TAAGATA-AC**GTC**
Fuol -AC**TAAAA**TAGATAA-----AAGGGTATATTT-----TTTA**GCT**AAAAATAATT**AGC**
Gmaf -AC**TTAAT**TAGGCAAA----AGG-CACACAAAAC-----CC**GCC**AAAGATA-AT**AGC**
Xeei -AC**TAAAA**TAGACAAC----AGGACATAACCCCA-----C**GCT**ATAAATA-AT**AGC**
Pros -AC**TAAAT**TAGGCAAG----GGGGTACATCCCTT-----AA**GCC**CAAAAAT-AG**GGC**
Scmi -AC**TAAAA**TAGGAAAG----GGAGCACATCCCCT-----TAA**GCC**CAAAATT-AG**GGC**
Rolo -AC**TAAAG**TAGGCAA----GAGGGCATGC-CCC-----CCA-**GCC**TGAGAAC-AT**GGC**
Cere -AC**TTAAT**TAGGCCAG----AGGGCATA--CC-C-----TCT**GCC**TAAAAGA-AC**GGC**
Daga -AC**TTAAG**TAGGTTAA----AGGGCATG-CCCT-----TTA-**GCC**TAAAAGA-AC**GGC**
Anco -AC**TAAAA**TAGGCAAG----AGGGCATGCCCTTAA-----**GCC**TAAGAAA-AT**GGC**
Dmve -AC**TAAAA**TAGGCAAA---AG--GC--ATGCCCCAC-----A**GCC**TCAGAAA-AC**GGC**
Dmar -AC**TAAAT**CAGGCAAA----AG-GCACACCTCCGGC-----A**GCC**CAAGAAA-AA**GGC**
Anka -AC**TAAAA**TAGGCAAG----AGGGCATAACCC-T-----AAA**GCC**CAAGAAA-AT**GGC**
Moja -AC**TAAAA**TAGGCAAG----AGGGCACA---AA-CC-----CCA**GCC**TAAAAAA-AC**GGC**
Hoja -AC**TAAAA**TAGGCAAG----AGGGCATACC-----CC-----TTAA**GCC**TAAGAAA-AT**GGC**
Bede -AC**TAAAA**TAGGCAA-----GGGGCATACCCCTA-----A**GCC**TAAGAAC-AT**GGC**
Besp -AC**TAAAG**TAGGCAAG----GGGGCATA--CCCC-CT-----AA**GCC**TAAGAAC-AT**GGC**
Mysp -AC**TAAAT**CAGATAAG----AGGACATACCACCA-CA-----TAAA**GCC**CACGAAA-AT**GGC**
Osja -AC**TAAAA**CAACAAG----AGGGC-ATACCCTA-CG-----A**GCC**TCCGAGA-AC**GGC**
Sgro -AC**TAAAA**CAACAAG----GGGGCATATCCCAC-----ATA**GCC**CTCGAGA-AT**GGC**
Pzpa -AA**TAAAGAAG**ACAAA---GGG-AC--ATATTATCTT-----AT**ATT**CTAGAAA-AG**AAT**
Zeja -AA**TAAAGAAG**ATAAG----CAGGGTTATTTTT-----ACT**ACT**ATAGACC-AC**AGT**
Znne -AA**TAAAGAAG**ATAAA---AGGG-ATTACTAATT-----T**ACT**TAAGAAA-AC**AGT**
Zefa -AA**TAAAGAAG**GCAAG----AGGGTGTA--TTAA-TT-----AT**ACT**TAAGAAA-AT**AGT**
Acni -AA**TAAAGAAG**GTAAG----GGGGGCTACTAC-----TCT**ACT**TAAGAAA-AT**AGT**
Ncrh -AA**TAAAGAAG**GTAAG----AGGGG-GCTACTA-----CTCT**ACT**TAAGAAA-AT**AGT**
Agca -AC**TAAAA**CAGGCAAA----GGGGCATATCCTT-----AA-T**GCC**TGAGAGA-AT**GGC**
Hydy -AC**TGAAA**AAGGTAAG----AGGGCATAACC-----C-----CGT**GCC**GAAGATT-AC**GGC**
GsaC -AC**TAAAA**CAGACAAA----AGGGCATAACCC-----CCT**GCC**GGAGATT-AC**GGC**
Pevo -AC**TAAAA**TAGACAAA----GGGACATAATCTTG-----C**TTC**TTAGAAT-AA**GAC**
Hiku TAT**TAAAGGT**TAAAAC----AACACAAG----AG-AC-----C**CTA**GAATATA-AC**TAT**
Inpa -AC**TTAAT**CAGACACA----AGGGCATACTCCC-----TA**GCC**TGAGAAA-AA**GAA**
Auch -TC**TAAAA**CAGGTAA-----GGTGACACACACCC-----C**ACG**TGAGAC-AA**AGA**
Fico -AC**TAAAT**TGGACAAG----GGGGAGCA--CCCA-TT-----T---**GCC**CAAGATA-AT**GGC**
MacS -AC**TAAAA**TAAAGTAAG----GGGGCATGCCCTT-----TT--**GCC**AAAGATA-AT**GGC**
Moal -AA**TCA-ATTG**ACGTT----AGAAAGTAAC-TT-----AA-A**ATC**TTAGACT-AA**GAT**
Syma -AC**TAAAGCGG**-TATA----AGGATATATCCCTACAA-----**ACC**CAAGAGA-TT**GGT**
Maf r -AC**TAAAT**TAGGCATA---AGGG-CATCGTCC--CC-----AT--**GCC**TAAGACT-AA**GGC**
Dcpe -TC**TAAAT**TAAACAAA----AGGACACCCCCCCC-----CCC**GCC**GAAGACA-AC**GGT**
Dct i -TC**TAAAT**TAAACAAA----AAGGACACCCCCCCC-----CCCC**GCC**GGAGACA-AC**GGC**
Hehi -AC**TAAAG**TAGGCAAG----AGGGC-ATACCCCC-G-----T**GCC**TGAGAGA-AC**GGC**
Stam -AC**TAAAA**TAGGCAAC---TGG-GC--ATGCCCCGCC-----**GCC**TAAGAAA-AC**GGC**
Hogi -AA**TAAAT**TAAATGAC---GGGGGAAACCT-----CAC**GCC**TGAGAAA-AC**GGC**
Erzo -AC**TAAAA**TAGGTAAG----AGG--ACATACCA-----CCCA**GCC**TGAGAAA-AC**GGC**
Hxot -AC**TAAAG**TAGGCAAA----AGG--GCATACCCT-----GTTT**GCC**TAAGAAA-AA**GGC**
Core -AC**TAAAA**TAGGCAAT---AGGGCATGCCCTT-----GT**GCC**TAAGAAA-AA**GGC**
Apve -AC**TAAAG**TAGACAAA---A---GG--GCATGCCCTT-----AT**GCT**GAGAAAA-AA**GGC**
Lat j -AC**TAAAT**TGGATAAA----GGGACGTGCCATAA-----TTAT**GTC**AGAGAGA-AT**GAC**
Laja -AC**TAAAA**CAGACAA-----AAGGGCATAACC-----CC**GCC**TGAAAAA-AA**GGC**

Syja -AC**TAAAA**TGGACAAA----GGAGCATACCCCAACT-----AATT**ACC**GAAAATA-AC**GGT**
 Epme -AC**TTAAT**CAGACAAG----GGGACAT-CCTCAT-----TTCT**GTC**CTAGAAA-AT**GAC**
 Grse -AC**TAAAG**CAGGCAAG----AGGGCATACCTCTAT-----**GCC**TGAGAAA-AT**GCC**
 Clja -AC**TCAACT**CGACAAA----AGGGCATAACTC-C-----TT**CTG**TCGAGAC-CA**GAC**
 Ogcy -AC**TAAAA**CAGGTAAG----GGGGCATA-C-TCC-----CT**TTT**CAACCTG-AA**AAA**
 Plna -AC**TAAAG**TAGGTAAC----AGGCCATAACCTTA-----**ATG**TCAAAA-AA**GAC**
 Lema -AC**TAAAA**TAGGCAAA----AGGGCATGCCCT-----TT**GCC**GAAGATT-AC**GCC**
 Etzo -AC**TAAAA**TAGGCAAG----AGGGCATGCCCC-C-----CT**GCC**GGAGAAA-AC**GCC**
 Apse -AC**TAAAA**TAGGTAAG----AG--AGCATACTCC-----T-TT**GTC**TAAGAGA-AA**GAC**
 Epde -AC**TAAAA**TAGGCAAA----AGG-GC--ATGCCCT-A-----T**GCC**TGAGAAA-AT**GCC**
 Slja -AC**TAAAA**TAGAGAAG----GGGGCATA----AA-CC-----CACA**ACT**TGACACC-T**AGA**
 Bsja -AC**TAAAA**CAGGTAAG----AGGGCATA--CCCC-CT-----CC-**GCC**CAAGAAA-AA**GCC**
 Ecna -TC**TAAAT**TAGGCAAA----AGGGTATACAAT-----TAAT**GCC**TAAGATA-AA**GCC**
 Cohi -TC**TAAAT**TAGGTAAG----AGGACACAAAACCTTCA-----**GCC**TTAGAGA-AA**GGT**
 Caar -TC**TAAACT**TAGGCAAA----AGGGTGCACC-----CC-----CCGT**GCC**TAAGAGA-AC**GCC**
 Came -TC**TAAACT**TAGGCAAG----AGG-GT--ACATTCCCC-----AT**GCC**TAAGAGA-AT**GCC**
 Mema -TC**TAAACT**TAGACAAG----AAGGCGTA--CC-C-----CTAT**GCC**TGAGAGA-AT**GCC**
 Lenu -AA**TAAAT**TAAGATAAG----GGGAAGACCC-----CC---CCCACC**GCC**C-AGAAC-AG**GAC**
 Brja -AC**TAAAT**TAGGCAAG----AGGG-CATACCCACC-TC-----CCAC**GCC**TGAGATA-AT**GCC**
 Plma -AC**TAAAT**TAGGCAAA----AGG-GC--ATATCCCTT-----CAC**GCC**AAAGATA-AT**GCC**
 Emst -AC**TAAAT**TAGGCAAA----AGGGCATA--CCCTG-C-----T**GCC**TGAGAAA-AT**GCC**
 Ptti -AA**TAAAT**TAGGCAAA----AGGGCACAACCCGT-AT-----**GTC**TGAAAGA-AC**GAC**
 Losu -AC**TAAAA**CAACAAA----AGGGACATAACACTT-TA-----**CCT**GAGAAA--AG**AGT**
 Geoy -AC**TAAAG**CAGGTTAA----GGGAA-ACATAATC-CC-----**GCC**TAAGAAA-AC**GCC**
 Dipi -AC**TAAAT**TAGGTAAG----AGGGC-ATAACCC-----CGT**GCC**TGAGAGA-AT**GCC**
 Pama -AC**TAAAG**CAGGCAAA----AGGGCACA--CCCC-----TCT-**GCC**TGAGAGA-AT**GCC**
 Leob -AC**TAAAG**TAAGCAAA----AGGGCGTA--CCCC-TT-----TC-C**GCC**TAAGAAA-AC**GCC**
 Neba -AC**TAAAT**TGAATAAC----AGG--GCATACCC-----TGCT**GCT**TAAGAAA-AT**AGC**
 Pdpi -TC**TAAAT**TAGACAAA----GGAGGGCATCCAC-----CGAT**ACC**GAAGAGC-CC**GGT**
 Nimi -AC**TAAAC**CAGATAAA----AGGACACATTTATTTGTAGGTACTACA**GCC**TAAGAAA-AT**GCC**
 Uptr -AC**TAAAT**TAAATAAT----AGGGCGCAACATT-----CCG**ACC**TAAGATA-AA**GCC**
 Pesc -AC**TAAAT**TAGGCAAG----GGACTGAGTTT-----**AATC**TGAGAGG-AC**GAT**
 Baar -AC**TAAAT**TAGACAAG----AGGACATACCCCCCCCC-----**GCC**TAAGAAA-AT**GCC**
 Moar -AC**TAAAT**TAGGCAAC----AGGGCATATCCCCCT-----**GCC**TGAGAAAAT**GCA**
 Toja -TC**TAAACT**TAGGCAAA----AGGGCATGCCCT-----CGT**GCC**TAAGAAA-AT**GCC**
 Chau -AC**TAAAT**TAGGCAAG----AGGGCATACTCAC-----AGT**AAC**CGAGAAA-AT**GTT**
 Chse -GC**TCAAT**TAGGTAAG----AGGGCATAATTCC-----TCT**GCC**ATAGAAA-AT**GCC**
 Enar -AC**TAAAT**TAGGCCAA----AGGGCATACCC-----C-----CCGT**TCC**TAAGAAA-AC**GCC**
 Hpty -AC**TAAAT**TAGGCAAA----AGGGCATGCCCT-----TGT**GCC**TAAGAAA-AT**GCC**
 Nana -AC**TAAAT**TAGACAAA----AGGGCGTATCCCC-----TGT**GTC**TAAGAAA-AA**AGA**
 Mcst -AC**TAAAT**TAGGCAAA----AGGGCATGTCCCTTG-A-----T**GCC**TAAGAAA-AT**GCC**
 Rhox -AC**TAAAT**TAGATAAT----AGGGCGTA--CAAC-CC-----AC-A**GCC**AAAGACA-AT**GCC**
 Opfa -AC**TAAAT**TAGCCAAA----AGGGCATATCCCAT-----CCCC**GCC**TGAGAAA-AC**GCC**
 Paar -AA**TAAAT**TAAACAAG----AGGGC-ATAAACCG-TA-----T**GCC**CAAGAAA-AT**GCC**
 Gozo -AC**TAAAT**TAGGCCAA----AGGGCATAATTCA-----CCC**GCC**AAAGAAA-AT**GCC**
 Ackr -AC**TTAAC**TAGCTAAG----AGGGCACCCCCCCC-----A**CCA**CGAAATC-AG**TGA**
 Elev -AC**TAAACA**AGGCTAG----AGGGC-ATGCCCC-CTA-----**GCC**TGAAATTTAA**GCC**
 Trdu -AC**TAAAT**TAGATAAA----AG--GGCGTACCC-----CTA**GCC**CTAGAAA-AG**GCC**
 Amoc -AA**TAAAT**CAGGTAAG----AGGGCATACTCT-----CC-C**GCC**TAAGATA-AT**AGC**
 Hame -AC**TAAAT**TAGGTAAG----AGGGCATG--TGCT-TC-----CC-A**GCC**TAAGATT-AC**GCC**
 Chso -AC**TAAACT**TAGCCAAG----AGGGGTACCACCACC-----AAA**GCC**TGAGATC-AA**GCC**
 Lyto -AC**TAAAG**CAGGCAAA----AGGGC-AT-GCTGCC-C-----T**GCC**CAAGAAA-AA**GCC**

Encr -AC**TAAAA**TAGGCAAA----AGGGCATG-CCCTC-CT-----**GCC**TAAGATG-AA**GGC**
 Bvar -AC**TAAAA**TTGGCAAG----GGGGCATGACCCT-----TATA**GCC**AAAGAAA-AT**GGC**
 Noco -AC**TAAAA**TAGACAAG----GGGGTATGTTTTCCC-----C**GCC**AGAGAAA-AT**GGC**
 Chsp -AT**CAAAA**TAGACCAC----AGGACATAACAAAT-----AG**ACC**GAAGATC-TA**AGT**
 Arja -AC**TAAAG**TAGGCAAA----AGGG--CATGCCCT-T-----GT**GCC**TGAGAAA-AA**GGC**
 Pase -AA**TTAAA**CAGCCAAC----TGGATACC--CC-C-----TCCCC**ATA**TGAGAGC-CA**TAT**
 Trel -GC**TAAAG**TGACAAG----GGGATATGTTTAAG-AC-----CCAC**GCA**GCAGAAA-AC**TGT**
 Lifa -AC**TAAAA**TAGTTAAG----GGGGCATAAGTAAT-CC-----A--A**ACC**GCAGACA-AC**GGT**
 Acur -AC**TAAAA**CAACCAAG----AGGACATACTATC-----TC**CCC**GTAGAAA-AT**GGT**
 Ampe -AC**TAAAA**TAGGCAAA----AGGGCATGCCCC-----TAT**GCC**TGAGAAA-AT**GGC**
 Urja -AA**TAAAA**TAAAGCAAA----AGGGCATACTT-----TCA**GCC**TGAGACT-AA**GGC**
 Enet -AC**TAAAG**AGGGTAAT----GAGACACCCGTCT-----CC**GCC**ATAAAAT-AC**GGC**
 Ptbr -AC**TTAAT**TAGATAAA----AGTAA-TT--TCAC-AC-----A**CCC**CTAGACT--A**GGA**
 Safa -AC**TAAAA**TAGGCAAG----GGGACATCCT----CC-----TAA**GTT**GAAGAAA-AT**AAC**
 Icae -AC**TAAAA**TAGGCAAA----AGGGCATATCCCT-----TCAC**GCC**CAAGATA-AT**GGC**
 Asmi -TC**TCAAT**TGGATAAA----AATGCACACCCCTG-----CTTCT**TCA**AAAGAAA-AC**TGC**
 Foal -AA**TAAAA**TAGATAAA----AGGGTTAACTAACCC-----**GCC**ATAAATT-AT**GGC**
 Drze -AC**TTAAA**TGGATAAG----TGGGCATAATA-----CTCT**GTC**AAAAAAA-AT**GAC**
 Rhas -AC**TAAAA**CAGGCAAA----AGGACATGACCC-C-----CC**GCC**TAAGAGA-AA**GGC**
 Elac -AA**TAAAA**AAGGCAAA----GGGGTACATCCTCCG-----T**GCC**TGAGAAA-AA**GGC**
 Kugu -AC**TAAAA**TAGATAAA----AGGGCATACT--ACC-----AA**ACC**TGAAAAA-AC**GGC**
 Plor -TC**TAAAA**CAGGCAAG----AGGGCATACTCC-----AT**GCC**TAAGAAA-AC**GGC**
 Sgun -AC**TAAAA**TAGACAAA----AGGGC-ATATCCCTG-----C**GCC**TGAGAAA-AT**GGC**
 Zaco -AC**TAA**-ATAGACAAA----AAGGCATA-CCCCTCCT-----A**CCC**-GAGAAA-AT**GGG**
 Zbfl -AC**TAAAG**TAGACAA-----AAGGGCATATTT-----CCCC**GCC**TGAGAAA-AT**GGC**
 Spba -TC**TAAAT**TGGACAAA----AGGGC-ATAATTCT-TT----TCCAT**GCC**AAGACA--AC**GGC**
 Game -AC**TAAAA**TAGGCAAA----AGGGCATACTCCCT-----ACAC**GCC**CAAGATA-AT**GGC**
 Thth -AC**TAAAA**TAGGCAAA----AGGGC-ATACCCCTCCA-----C**GCC**CAAGATA-AT**GGC**
 Xigl -TC**TAAACT**TAGGCAAG---AGG-GC--ATACCTTCA-----T**GCC**TGAGAGA-AT**GGC**
 Hyja -AC**TAAAA**TAGGCAAA----AGAGCATATCCCTTTAT-----**GCC**GGAGATACAC**GGT**
 Psan -AC**TAAAA**TAAATTA--AGAGCATACCTACCAG-----T**GTC**GGAGATAGAC**GGC**
 Cupa -AC**TAAAA**TAGGCAAA----AGGGTATACCCCTC-----CTAC**GCC**CAAGATA-AT**GGC**
 Mpch -AC**TTAAT**TAGGCAAG----GGGGCATACT----C-----TTT**GCC**TAAGAAA-AT**GGC**
 Char -AC**TAAAT**TAGGTAAG----GGGGCATGACTCCTCCC-----**GCC**AAATATA-AT**GGC**
 Pser -TA**TCAACT**TAGGTAAG----AGG-CATATCCCCC-C-----**GCC**CAAGAAA-AC**GGC**
 Prol -TC**TAAACT**TAGGTAAG----AGG-GCATAACCAT-----CTGT**GCC**GAAGATA-AC**GGC**
 Plbi -TC**TAAACT**TAGGCAAA----AGGGCATAACCATT-----TT**GCT**GGAGATA-AC**AGC**
 Calu -AC**TAAAT**CAGGCAAG---GAGG-CGCAACCCTC-CG-----**CAC**TTAGAT---A**GTC**
 Papa -TC**TAAACATA**-TAAC----AGGGAGCGGTATCTC-----A**AGC**GGAGATA-AC**GCT**
 Suf r -AC**TCAAC**CGAACAAA----GAGATGCTTAACCAC-----**GTT**AAAGAGC-AT**GGC**
 Stci -AA**TAAAG**TAAAGCAAG----GGAGGACAACCTTTG-----A**GCC**ATAAATC-AT**GGC**
 Taru -GC**TCAAG**CAATAAAG----AGAGTACAAAACCTAA-----**GTC**AAAGAAC-AT**GAC**
 Rala -AC**TAAACT**TAGGTAAG----GGGGCATATA-----CC-----CCT-**GCC**TGAGATA-AT**GGC**

*

Scca	T-----
Muma	T-----
Erca	TA-----
Pose	A-----
Act r	CAA-----
Scal	AA-----
Posp	AA-----
Atsp	CCA-----
Leoc	ACA-----
Amca	AA-----
Osbi	A-----
Pabu	AA-----
Hial	GC-----
Elha	GC-----
Mlcy	AC-----
Algl	TAC-----
Ptgi	GC-----
Alaf	AC-----
Nock	AC-----
Anja	AT-----
Gyki	AT-----
Syka	AT-----
Opma	AG-----
Comy	AT-----
Sasp	GC-----
Eupe	-----
Enja	CGTCTTATTTATTCGC-----
Same	TCGC-----
Chch	TT-----
Grgr	AT-----
Caau	AT-----
Cyca	ATACTGG-----
Dare	T-----
Cost	AC-----
Leec	AC-----
Cr la	AC-----
Clmc	CT-----
Phin	TAA-----
Icpu	-----
Psto	-----
Cora	-----
Eisp	T-----
Apal	-----
Es lu	GC-----
Dape	GC-----
Glse	GC-----
Naar	GC-----
Baoc	GC-----
Opso	GC-----
Al te	AT-----
Plap	AT-----

Plal	ATCCTAGTGTGGCAGGGCTCGGGTAACAACCCACCCTGCTACCC-----
Sami	ATCCTTGTGTGGCAGGATCTAGAAAGTCGTTCTGC-----
Rere	GCCCGCATCTCAACGTGGCGGTAACCGGCGTGCCGGGGCCTTCCGGCCTTGCCTTCT
Gama	GC-----
Onmy	GC-----
Sasa	GC-----
Cola	GC-----
Dita	T-----
Gogr	T-----
Chsl	A-----
Atja	AT-----
Iido	AT-----
Auja	AT-----
Chag	AT-----
Hami	AT-----
Saun	AT-----
Nema	AT-----
Disp	TTG-----
Myaf	A-----
Lagu	TA-----
Trtr	CT-----
Zucr	CT-----
Pxja	AA-----
Pxlo	AA-----
Pctr	AA-----
Apsa	AT-----
Cabe	AC-----
Bzze	AT-----
Siim	AC-----
Ctru	AT-----
Dpbr	AT-----
Caki	AA-----
Phja	CGTTT-----
Brsp	AGTTGGCAGATTGTTGAATATTCTGTAGCTCCTAA-----
Gamo	TGT-----
Lolo	CGT-----
Batr	TCCC-----
Prmy	-----
Loli	AT-----
Loam	AT-----
Chab	AT-----
Chto	AT-----
Majo	TT-----
Hlst	TT-----
Clpe	AC-----
Mlmr	AT-----
Crcr	AT-----
Muce	AT-----
Bege	GT-----
Mela	AT-----
Hats	AAA-----
Orla	AT-----

Cosa	AT-----
Exsp	AT-----
Depa	TT-----
Rima	TT-----
Fuol	GT-----
Gmaf	T-----
Xeei	AA-----
Pros	GT-----
Scmi	CT-----
Rolo	AT-----
Cere	GT-----
Daga	GT-----
Anco	AT-----
Dmve	GT-----
Dmar	GT-----
Anka	AT-----
Moja	AT-----
Hoja	AT-----
Bede	AT-----
Besp	AT-----
Mysp	AA-----
Osja	AT-----
Sgro	AT-----
Pzpa	AT-----
Zeja	AT-----
Zzne	AC-----
Zefa	AA-----
Acni	AT-----
Ncrh	AT-----
Agca	AT-----
Hydy	AT-----
Gsac	AT-----
Pevo	AT-----
Hiku	AT-----
Inpa	TTA-----
Auch	CCA-----
Fico	AT-----
Macs	AT-----
Moal	AT-----
Syma	AT-----
Maf r	CT-----
Dcpe	AG-----
Dct i	AG-----
Hehi	AT-----
Stam	AT-----
Hogi	AT-----
Erzo	AT-----
Hxot	AT-----
Core	AT-----
Apve	AT-----
Lat j	AT-----
Laja	AT-----

Syja	CATGTTAAAGTGG-----
Epme	AA-----
Grse	AT-----
Clja	AAT-----
Ogcy	AAGCTT-----
Plna	AA-----
Lema	AT-----
Etzo	AT-----
Apse	T-----
Epde	AT-----
Slja	TAACGGTAT-----
Bsja	AT-----
Ecna	AA-----
Cohi	-----
Caar	AT-----
Came	AT-----
Mema	AT-----
Lenu	AT-----
Brja	AT-----
Plma	AT-----
Emst	AT-----
Ptti	AT-----
Losu	AC-----
Geoy	GT-----
Dipi	AT-----
Pama	TA-----
Leob	ATTACACT-----
Neba	ATT-----
Pdpl	AACA-----
Nimi	TT-----
Uptr	AACC-----
Pesc	TC-----
Baar	AT-----
Moar	T-----
Toja	AT-----
Chau	AT-----
Chse	AA-----
Enar	AT-----
Hpty	AT-----
Nana	CAT-----
Mcst	AT-----
Rhox	CT-----
Opfa	AT-----
Paar	AT-----
Gozo	AT-----
Ackr	TTA-----
Elev	TT-----
Trdu	TT-----
Amoc	AT-----
Hame	CT-----
Chso	AC-----
Lyto	AT-----

Encr	AT-----
Bvar	AT-----
Noco	AC-----
Chsp	C-----
Arja	AT-----
Pase	AA-----
Trel	AA-----
Lifa	TCCT-----
Acur	AC-----
Ampe	AT-----
Urja	AC-----
Enet	TT-----
Ptbr	-----
Safa	AT-----
Icae	AT-----
Asmi	T-----
Foal	TT-----
Drze	AT-----
Rhas	AT-----
Elac	AT-----
Kugu	AC-----
Plor	AT-----
Sgun	AT-----
Zaco	CC-----
Zbfl	AT-----
Spba	ACA-----
Game	AT-----
Thth	AT-----
Xigl	AT-----
Hyja	ATA-----
Psan	ATAC-----
Cupa	AT-----
Mpch	AT-----
Char	TT-----
Pser	AC-----
Prol	GT-----
Plbi	AA-----
Calu	T-----
Papa	TA-----
Sufr	AT-----
Stci	AT-----
Taru	AT-----
Rala	AT-----