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#L1MdA_I      ATGGCGAAAG  GCAAACGTAA  GAATCCTACT  AACAGAAATC  AAGACCACTC  ACCATCATCA  GAACGCAGCA  CTCCCACCCC [ 80]
#L1MdA_II     . . . . .
#L1MdA_III    . . . . .
#L1MdA_IV     . . . . .
#L1MdGf_I     . . . . .T. . . . .GC. .G. . . . .C. .A. .G. . . .TT. [ 80]
#L1MdGf_II    . . . . .T. . . . .T. . . . .C. .G. .T. . . . .C. . . . .TT. [ 80]
#L1MdTf_I     . . . . .T. . . .G.G. .T. . . .G. .C. . . . .C. . . . .A. . . .TT. [ 80]
#L1MdTf_II    . . . . .T. . . .G.G. .T. . . .G. .C. . . . .C. . . . .A. . . .TT. [ 80]
#L1MdTf_III   . . . . .T. . . .G. . . . .G. .C. . . . .C. . . . .TT. [ 80]
#L1MdA_V      . . . . .A. . . . . . . . . .G. . . . . . . . . .G. . [ 80]
#L1MdA_VI     . . . . .A. . . . .T. . . . .C. . . . . . . . . . . [ 80]
#L1MdF_V      . . . . . . . . . .T. . . . .C. . . . . . . . . .T. [ 80]
#L1MdF_IV     . . . . . . . . . .T. . . . .C. . . . . . . . . .T. [ 80]
#L1MdF_I      . . . . .T. . . . . . . . . .C. .G. . . . .C. .A. .G. . . .TT. [ 80]
#L1MdF_II     . . . . .T. . . . .G. . . . .T. . . . .G. .C. . . . .C. . . . .TT. [ 80]
#L1MdF_III    . . . . .Y. . . . .T. . . . .T. . . . .C. . . . .C. . . . .TT. [ 80]
#L1MdN_I      . . . . . . . . . . . . . . . . . . . . . . . .G. . [ 80]
#L1MdA_VII    . . . . . . . . . . . . . . . . . . . . . . . . . [ 80]
#L1MdMus_I    . . . . . . . . . .T. . . . .C. . . . .A. .G GG. . . .C. .T. .G. . . .A. [ 80]
#L1MdFanc_I   . . . . . . . . . .T. . . . .C. . . . . . . . . . . . . .T. [ 80]
#L1MdV_I      . . . . .AGG. . . .G. . . . .CAGA.GC . . . .C. . .GTT. .T GG. . . .CA.A.T . . . .AT [ 80]
#L1MdFanc_II  . . . . . . . . . .T. . . . .C. . . . . . . . . .G. . . .C. .T. .D. . . .A. [ 80]
#L1MdMus_II   . . . . .R. . . . .W. . . . .T. . . . .C. . . . .GG. . . . .C. .T. .G. .Y. .A. [ 80]
#L1MdV_II     . . . . .AGG. . . .G.A. . . .CAGA.GC . . . .C. . .GTT. .T GG. . . .CA.A.T . . . .AT [ 80]
#L1Lx_I       . . . . .D. . . . .Y. . . . .T. . . . .C. . . . .HY. .T GG. . . .C. .T. . . .A. [ 80]
#L1Lx_III     . . . . .G.AC. . . .G.AC. . .CATA.GC . . . .C. .C.V.T. .T GG. . . .H. .TT . . . .A. [ 80]
#L1Lx_II      . . . . .G. .C. . . .CYT. .C . . . .C. . .GHT. WT GG.G. . . .VC. .TT .N. . . .MAN [ 80]
#L1Lx_IV      . . . . .R. . . . .GG.C. . . .CATA.GC . . . .C. . .GNT. .T GG. . . .C. .TT . . . .G.A. [ 80]
#L1MdV_III    . . . . .T.GG. . . .G.A. . . .CATA.GC . . . .C. . .GTT. .T GG. . . .C. .ATT . . . .AT [ 80]

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#L1MdA_I      ACCTAGTCTC  GGGCACCCCA  ACACAACCGA  AAATCTAGAC  CCAGATTTAA  AAACATTTC  CATGATGATG  ATAGAGGACA [ 160]
#L1MdA_II     . . . . .
#L1MdA_III    . . . . .
#L1MdA_IV     . . . . .
#L1MdGf_I     G. .C.A. .A . .A. . . .T. . . .C.T. . .GG. . .TG. . . .G. .A. . . .G. . . . [ 160]
#L1MdGf_II    G. .C.A. .A . . . . .Y. . . .C.T. . .G. . .TG. . . .G. .A. . . .G. . . . [ 160]
#L1MdTf_I     G. .C. .A .A . . . . .C.T. .G. .C. . .T. . . .G. .A. . . .G. . . . [ 160]
#L1MdTf_II    G. .C. .A .A . . . . .C.T. .G. .C. . .T. . . .G. .A. . . .G. . . . [ 160]
#L1MdTf_III   G. .C. .A . . . . . . . . .C. . .C. . .T. . . .G. .A. . . .G. . . . [ 160]
#L1MdA_V      . . . . . . . . . . . . . . .G. . . .G. . . .G. . . .G. . . . [ 160]
#L1MdA_VI     . . . . . . . . . .C. . . .GA. .T. .G. . . .G. .A. . . .G. . . . [ 160]
#L1MdF_V      G. .C. . . . . . . .C.YR. . .G. . .G. . .G. .A. . . .G. . . . [ 160]
#L1MdF_IV     .G. .C. . . . .Y. . . .C. . .G. . .GG. . . .G. .A. . . .G. . . . [ 160]
#L1MdF_I      G. .C. .A . . . . .T. . . .C.T. . .GG. . .TG. . . .G. .A. . . .G. . . . [ 160]
#L1MdF_II     G. .C. .A . . . . . . . .C. . .C. . . .G. .A. . . .G. . . . [ 160]
#L1MdF_III    G. .C. .A . . . . . . . .C. . .G. . . .G. .A. . . .G. . . . [ 160]
#L1MdN_I      . . . . . . . . . . . . . .G. . . .G. . . .G. .A. . . .G. . . . [ 160]
#L1MdA_VII    . . . . . . . . . .C. . . .G.W. . .G. . .G. .A. . . .G. . . . [ 160]
#L1MdMus_I    .A.G. . . . .AT. . . . .C. . . .G.A. .G.G. . . .T. .A. . . .G. . . .A. .TT [ 160]
#L1MdFanc_I   .G.C. . . . .AT. . . . .C. . . .G.A. .T.G. . . .T. .A. . . .C. . . .G. . . . [ 160]
#L1MdV_I      .G.A. . . . .AT. .A. .T. . .C.A. . .G.A. .ATG. .C. .GT. .C. . . .G. . . .T [ 160]
#L1MdFanc_II  .G.G. . . . .AT. . . . .C. .A. .G.A. .T.G. . . .T. .A. . . .C. . . .TT [ 160]
#L1MdMus_II   .G.G. . . . .AT. . . . .C. .A. .G.A. .Y.T.G. . . .T. .A. . . .C. . . .TT [ 160]
#L1MdV_II     .G.A. . . . .AT. .A. .T. . .C.A. . .G.A. .ATG. .C. .GT. .C. . . .G. . . .T [ 160]
#L1Lx_I       .G.G. . . . .AT.H. . . .C.G. . .G.A.V.T.T.G. . . .T. .A. . . .C. . . .TT [ 160]
#L1Lx_III     .G.G.AC. . .TT. . . . .C.A. . .G.A. .T.T. . . .T. .CA. . . . .VT [ 160]
#L1Lx_II      .G.A.D. . . .AT.H. . . .N. .C.G. . .G.A. .T.T.G. . . .T. .YA. .H. . . .V. . . .YT [ 160]
#L1Lx_IV      .GTG. .C. . .NT. . . . .C.A. . .G.A. .T.T. . . .T. .CA. . . . .T [ 160]
#L1MdV_III    .G.A. . . . .AT. .A. .T. . .C.G. . .GBA. .Y.T.G. . .C. .RT. .C. . . .C. . . .V. . . .T [ 160]

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#L1MdA_I      TCAAGAAGGA  CTTTCATAAG  TCACTTAAAG  ATTTACAGGA  GAGCACTGCT  AAAGAGTTA-  -----  ----- [ 240]
#L1MdA_II     . . . . .
#L1MdA_III    . . . . .
#L1MdA_IV     . . . . .C. . . . .AA. . . . . . . . . . . . . . . [ 240]
#L1MdGf_I     .A. . . . .A. .CA.Y. .C . . . . .AA. . . . .A. . . . . . . . . . [ 240]
#L1MdGf_II    . . . . .AA. . . .C . . . . .AA. . . . .A. . . . .C.AG. .G AAGACATTAA AGAGGAAACA [ 240]
#L1MdTf_I     . . . . .A. .A . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdTf_II    . . . . .A. .A . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdTf_III   . . . . .A. .A . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdA_V      . . . . .A. .C . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdA_VI     . . . . .A. .C . . . . .AA. . . . .A. . . . .C. .G. .G AAGACCTTAA AGAGGAAGCA [ 240]
#L1MdF_V      . . . . .A. .C . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdF_IV     . . . . .A. .C . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdF_I      .A. . . . .A. .A. .C . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdF_II     . . . . .A. .C . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdF_III    . . . . .A. .C . . . . .AA. . . . .A. . . . .C. .G. .G AAGACATTAA AGAGGAAGCA [ 240]
#L1MdN_I      . . . . .A. . . .C . . . . .AA. . . . .A. . . . . . . . . . . . . . . [ 240]
#L1MdA_VII    . . . . .A. .C . . . . .AA. . . . .A. .A. . .C. .G. .G AAGACCTTAA AGAGGAAACA [ 240]
#L1MdMus_I    .T. . . . .G.A. .A. .C . . . . .AA. . . . .A.N. . . .S. .G. .G AAGCCCTTAA AGAGGAAGCA [ 240]
#L1MdFanc_I   . . . . .G.W. .A. .C . . . . .AA. . . . .A. . . . .G. . . . . . . . . . [ 240]
#L1MdV_I      .T. . . . . . . . . . . . . . .AA. . . . .A.A. .A.G. . .C. .G. .G AAGCCTTAA AGAGGAAACA [ 240]
#L1MdFanc_II  .T. . . . .G.A. .A. .C . . . . .AA. . . . .A. . . . .C. .G. .G AAGNCCTTAA AGAGGAAGCA [ 240]
#L1MdMus_II   .T. . . . .G.A. .A. .C . . . . .AA.D. .R. .D.A. . . . .C. .G. .G AAGTCCTTAA AGAGRAAACA [ 240]
#L1MdV_II     DT. . . . .AA.AA. .C . . . . .AA. . . . .D.A. .ATMC. .WY. .G. . . . . [ 240]
#L1Lx_I       .T. . . . .A. .A. .Y .C. . . . .AA. . . . .A. .A.N. . .C. .G. .G AAGYCCTTAA AGAGGAAACA [ 240]
#L1Lx_III     .T. . . . .R. . . .A.AA. .C . . . . .AA. . . . .A. .A.G. . .CG. .G AAGACCTTAA AGAGGAAACA [ 240]
#L1Lx_II      .T. . . . .A.AA. .C . . . . .AA. . . . .A. .A.G. . .C. .G. .G AAGCCCTTAA AGAGGAAACA [ 240]
#L1Lx_IV      .T. . . . .A.AA. .C . . . . .AA. . . . .D. . . .A.A.G. . .C. .G. .G AAGCCCTTAA AGAGGAAACA [ 240]
#L1MdV_III    .T. . . . .A.AA. .C . . . . .AA. . . . .A. .A.G. . .C. .M. .G AAGCCCTTAA AGAGGAAACA [ 240]

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#L1MdA_I --CAGGCTC- TTAAAGAAAA GCAGGAAAAC ACAGCCAAAC AGGT----- [ 320]
#L1MdA_II --.....C- ..... [ 320]
#L1MdA_III --.....C- ..... [ 320]
#L1MdA_IV --.....YC- ..... [ 320]
#L1MdGf_I --..A.TC- ..... [ 320]
#L1MdGf_II CAA.AATC.C .....TT A.....T.A.....AGAAGA CATTAAAGAG GAAACACAAA AATCCCTTAA [ 320]
#L1MdTf_I --..A.TC- ..... [ 320]
#L1MdTf_II --..A.TC- ..... [ 320]
#L1MdTf_III --..A.TC- ..... [ 320]
#L1MdA_V --..A.TC- ..... [ 320]
#L1MdA_VI CAA.AATC.C .....TT .....GA..... [ 320]
#L1MdF_V --..A.TC- ..... [ 320]
#L1MdF_IV --..A.TC- ..... [ 320]
#L1MdF_I --..A.TC- ..... [ 320]
#L1MdF_II --..A.TC- ..... [ 320]
#L1MdF_III CAA.AATC.C .....TT ..... [ 320]
#L1MdN_I --..A.TC- ..... [ 320]
#L1MdA_VII CAA.AAT..C .....TT .....GA..... [ 320]
#L1MdMus_I CAA.AATC.C .C..G..TT A...G...T..T...AGAAG- ---TCCTTAA [ 320]
#L1MdFanc_I --G.A.TC- .....DT A..... [ 320]
#L1MdV_I CAA.AATB.C ..G...GTT A.....TA..... [ 320]
#L1MdFanc_II CAA.AATC.C .C.....TT A.....T..T...AGAAGA CCTTAAAGAG GAAACACAAA AATCCCTTAA [ 320]
#L1MdMus_II CAA.AATC.C .D..R..TT A..... [ 320]
#L1MdV_II ..... [ 320]
#L1Lx_I CAA.AATC.C .....TT AY..... [ 320]
#L1Lx_III CAA.AATC.C .....TT A..... [ 320]
#L1Lx_II CAA.AATC.C .....TT AB.....AH..... [ 320]
#L1Lx_IV VAA.AATC.C .....TT A.....AH..... [ 320]
#L1MdV_III CAA.AATC.C .....TT A.....AT..... [ 320]

#L1MdA_I ..... [ 400]
#L1MdA_II AGAAAAACAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdA_III AGAAAAACAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdA_IV AGAAAAACAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdGf_I AGAAAAACAG GAAAACACAA CCAAACAGGT AGAAG-----TCC TTATAGAAAA ACAGGAAAAC ACATCCAAAC [ 400]
#L1MdGf_II AGAATTGCAG GAAAACACAA CCAAACAGGT ..... [ 400]
#L1MdTf_I AGAAAAAGAG GAAAACACAT ACAAACAGGT ..... [ 400]
#L1MdTf_II AGAAAAAGAG GAAAACACAT ACAAACAGGT ..... [ 400]
#L1MdTf_III AGAAAAAGAG GAAAACACAT ACAAACAGGT ..... [ 400]
#L1MdA_V AGAAAAACAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdA_VI ..... [ 400]
#L1MdF_V ..... [ 400]
#L1MdF_IV AGAAAAACAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdF_I AGAAAAACAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdF_II AGAAAAAGAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdF_III ..... [ 400]
#L1MdN_I AGAAAAACAG GAAAACACAT CCAAACAGGT ..... [ 400]
#L1MdA_VII ..... [ 400]
#L1MdMus_I AGAACTACAG GCAAACTG CTAAACAGGT AGAAGAAACA CAAAATCCC TTAAAGAATT ACAGGAAAAC ACAACCAAAC [ 400]
#L1MdFanc_I ..... [ 400]
#L1MdV_I ..... [ 400]
#L1MdFanc_II AGAATTACAG GAAAACACAA CCAAACAGGT ..... [ 400]
#L1MdMus_II ..... [ 400]
#L1MdV_II ..... [ 400]
#L1Lx_I ..... [ 400]
#L1Lx_III ..... [ 400]
#L1Lx_II ..... [ 400]
#L1Lx_IV ..... [ 400]
#L1MdV_III ..... [ 400]

#L1MdA_I ----GATGGA AATGAACAAA ACCATACTAG AACTAAAAGG GGAAGTAGAC ACAATAAAGA AAACCCAAAG CGAGGCAACG [ 480]
#L1MdA_II ..... [ 480]
#L1MdA_III ---A..... [ 480]
#L1MdA_IV ..... [ 480]
#L1MdGf_I AGGT..... [ 480]
#L1MdGf_II .....T...T...C.A..C..A.. [ 480]
#L1MdTf_I ..... [ 480]
#L1MdTf_II ..... [ 480]
#L1MdTf_III ..... [ 480]
#L1MdA_V ..... [ 480]
#L1MdA_VI .....T...T...C.A..C..A.. [ 480]
#L1MdF_V ..... [ 480]
#L1MdF_IV ..... [ 480]
#L1MdF_I ..... [ 480]
#L1MdF_II ..... [ 480]
#L1MdF_III .....T...T...C.A..C..A.. [ 480]
#L1MdN_I ..... [ 480]
#L1MdA_VII .....T...T...C.A..CA..A.. [ 480]
#L1MdMus_I AGGCA.....T...C.A..T...AT...A...G... [ 480]
#L1MdFanc_I .....T...C.A..C..A.. [ 480]
#L1MdV_I .....T...C.A.G..T...AT...A... [ 480]
#L1MdFanc_II .....T...C.A..T...AT...A...H... [ 480]
#L1MdMus_II .....T...C.A..T...AT...D...A...R... [ 480]
#L1MdV_II .....AA..T...CYAG..T...AT...A...T.A...G...A.H.T [ 480]
#L1Lx_I .....T...C.A.R..T...AT...A...W.A...G...A...T [ 480]
#L1Lx_III .....A...C.....H.G.C.AG..T...AT...A...A...T.A...G...A...A [ 480]
#L1Lx_II .....A...N.....C.AGD..T...AT...V...A...T.A...G...A...T [ 480]
#L1Lx_IV .....A...T...C.A.G..T...NT...A...D.A...T.A...G...A...C [ 480]
#L1MdV_III .....A...C.A..T...AT...A...A...T.A...G...A...C [ 480]

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#L1MdA_I      CTGGAGATAG AAACCCCTAGG AAAGAGATCT GGAACCATAG ATGCGAGCAT CAGCAACAGA ATACAAGAAA TGGAAGAGAG [ 560]
#L1MdA_II     .....
#L1MdA_III    .....
#L1MdA_IV     .....
#L1MdGf_I     .....A.....A.....C.....G..... [ 560]
#L1MdGf_II    G.....A.....A..... [ 560]
#L1MdTf_I     ..A.....A.....TT.....G..... [ 560]
#L1MdTf_II    ..A.....A.....TT.....G..... [ 560]
#L1MdTf_III   .....A.....TT.....G..... [ 560]
#L1MdA_V      .....A.....C.....G..... [ 560]
#L1MdA_VI     .....A.....A.....G..... [ 560]
#L1MdF_V      .....A.....G..... [ 560]
#L1MdF_IV     .....A.....G..... [ 560]
#L1MdF_I      .....A.....C.....G..... [ 560]
#L1MdF_II     .....A.....TY.....G..... [ 560]
#L1MdF_III    .....A.....G..... [ 560]
#L1MdN_I      .....A.....C.....G..... [ 560]
#L1MdA_VII    .....A.....G..... [ 560]
#L1MdMus_I    .....A..A.....T.....G..... [ 560]
#L1MdFanc_I   .....A.....G..... [ 560]
#L1MdV_I      .....A..A.....G..... [ 560]
#L1MdFanc_II  .....T.....A..A.....G..... [ 560]
#L1MdMus_II   .....Y.....A..A.....G..... [ 560]
#L1MdV_II     .....R.....A.....AG..A...R...D...A.....A.C.....G...R..... [ 560]
#L1Lx_I       .....T.....A..A...R.....A.....B.....G...R..... [ 560]
#L1Lx_III     .....A.....Y.A...GT.....A.....C.....G...A..... [ 560]
#L1Lx_II      .....AN.....A...GT.....C.....G...A.....D [ 560]
#L1Lx_IV      .....A.....A...GT.....A.....C.....G...A..... [ 560]
#L1MdV_III    .....T.....A.....A...GT.....R.A.....C.....G...A..... [ 560]

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#L1MdA_I      AATCTCAGGT GCAGAAGATT CCATAGAGAA CATCGACACA ACAGTCAAAG AAAATACAAA ATGCAAAAGG ATCCTAACTC [ 640]
#L1MdA_II     .....
#L1MdA_III    .....
#L1MdA_IV     .....G.....A..... [ 640]
#L1MdGf_I     .....C.....G.....A.....GG...A..... [ 640]
#L1MdGf_II    .....G.....A.....GG...A..... [ 640]
#L1MdTf_I     .....G.....A.....GG...A..... [ 640]
#L1MdTf_II    .....G.....A.....GG...A..... [ 640]
#L1MdTf_III   .....G.....A.....GG...A..... [ 640]
#L1MdA_V      .....G.....A.....T.....C.....A..... [ 640]
#L1MdA_VI     .....G.....A.....A..... [ 640]
#L1MdF_V      .....G.....A.....G.....A..... [ 640]
#L1MdF_IV     .....G.....A.....G.....A..... [ 640]
#L1MdF_I      .....G.....A.....GG...A..... [ 640]
#L1MdF_II     .....G.....A.....GG...A..... [ 640]
#L1MdF_III    .....G.....A.....GV...A..... [ 640]
#L1MdN_I      .....G.....A.....T.....C.....A..... [ 640]
#L1MdA_VII    .....G.....A.....C.....A..... [ 640]
#L1MdMus_I    .....G.....G.....A.....G.....A..... [ 640]
#L1MdFanc_I   .....A.....G.G...A.....G.....A..... [ 640]
#L1MdV_I      .....R.....G.....A.....G.....A..... [ 640]
#L1MdFanc_II  .....A.....G.....A.....G.....A..... [ 640]
#L1MdMus_II   .....R.....G.....A.....G.....A.....Y..... [ 640]
#L1MdV_II     .....A.....A.....A.....G.G...A.....Y..... [ 640]
#L1Lx_I       .....A.....A.....A.....G.....A.....H..... [ 640]
#L1Lx_III     .....D.....A.....A...T.....B.....G.....V...A...N.....C..... [ 640]
#L1Lx_II      .....A...G...A...T.....DB...V...G.....AN...C..... [ 640]
#L1Lx_IV      .....A.....A.....T.....G.....A.....C.....C..... [ 640]
#L1MdV_III    .....G.....A.....A...T.....G.....A.....C.....C..... [ 640]

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#L1MdA_I      AAAACATCCA GGTAATCCAG GACACAATGA GAAGACCAA CCTACGGATA ATAGGAATTG ATGAGAATGA AGATTTTCAA [ 720]
#L1MdA_II     .....
#L1MdA_III    .....A..... [ 720]
#L1MdA_IV     .....A.....G..... [ 720]
#L1MdGf_I     .....A.....G.G..... [ 720]
#L1MdGf_II    .....A.....G.....G.G..... [ 720]
#L1MdTf_I     .....T.....A.....A.....G.....G.G..... [ 720]
#L1MdTf_II    .....T.....A.....A.....G.....G.G..... [ 720]
#L1MdTf_III   .....T.....A.....G.....G.G..... [ 720]
#L1MdA_V      .....A.....G..... [ 720]
#L1MdA_VI     .....A.....G.A..... [ 720]
#L1MdF_V      .....A.....G.A..... [ 720]
#L1MdF_IV     .....A.....G.A..... [ 720]
#L1MdF_I      .....A.....G.G..... [ 720]
#L1MdF_II     .....T.....A.....G.G..... [ 720]
#L1MdF_III    .....A.....G.A..... [ 720]
#L1MdN_I      .....A.....G..... [ 720]
#L1MdA_VII    .....A.....G..... [ 720]
#L1MdMus_I    .....A.....G.A..... [ 720]
#L1MdFanc_I   .....A.....G.A..... [ 720]
#L1MdV_I      .....A.....G.A..... [ 720]
#L1MdFanc_II  .....A.....A.....T.A..... [ 720]
#L1MdMus_II   .....H.....A.....D.T.A..... [ 720]
#L1MdV_II     .....H.....A.....T.A...C...D...Y..... [ 720]
#L1Lx_I       .....N.....A.....T.A..... [ 720]
#L1Lx_III     .....A.....A.....T.A...A...G...CH..... [ 720]
#L1Lx_II      .....G.....A...H.....A.....T.A...A...GC...HC..... [ 720]
#L1Lx_IV      .....A.....A.....T.A...A...G...CC..... [ 720]
#L1MdV_III    .....A.....A.....T.A...A...G...D...CC..... [ 720]

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#L1MdA_I	CTTAAAGGGC	CAGCTAATAT	CTTCAACAAA	ATAATAGAAG	AAAACCTCCC	AAACATAAAA	AAAGAGATGC	CCATGATCAT	[800]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[ 800]
#L1MdA_III	.....	.....	.....	.....	.....	.....G	.....	.....	[ 800]
#L1MdA_IV	.....	.....A	.....	.....	.....	.....G	.....	.....	[ 800]
#L1MdGf_I	.C....A.	...A.C.	.....	.T.T.	.....	.TC.G	.....	...A.	[800]
#L1MdGf_II	.C....A.	...A.C.	.....G	.T.T.	.....	.TC.G	.....A.	...A.	[800]
#L1MdTf_I	.C....T.	...A.C.	.....	.T.T.	.....	.TC.G	...T.	AT...A.	[800]
#L1MdTf_II	.C....T.	...A.C.	.....	.T.T.	.....	.TC.G	...T.	AT...A.	[800]
#L1MdTf_III	.C....A.	...A.C.	.....	.T.T.	.....	.T.G	.....A.	T...A.	[800]
#L1MdA_V	.....	.G.A.	.....	.T.	.....	.C.G	...T.C.	.....A.	[800]
#L1MdA_VI	.....	...A.	.....	.T.	.....	.C.G	.....	...A.	[800]
#L1MdF_V	.....	...A.	.....	.T.	.....	.C.G	.....	...A.	[800]
#L1MdF_IV	.....	...A.	.....	.T.	.....	.C.G	.....	...A.	[800]
#L1MdF_I	.C....A.	...A.C.	.....	.T.T.	.....	.TC.G	.....	...A.	[800]
#L1MdF_II	.C....A.	...A.C.	.....	.T.T.	.....	.TC.G	.....	...A.	[800]
#L1MdF_III	.C....A.	.G.A.	.....	.T.	.....	.C.G	.....	...A.	[800]
#L1MdN_I	.....	...A.	A	.T.	.....	.C.G	...T.C.	.....A.	[800]
#L1MdA_VII	.....	...A.	.....	.T.	.....	.C.G	...T.C.	.....A.	[800]
#L1MdMus_I	.....	...A.	.....	.T.	.....	.T.C.G	.....	...A.	[800]
#L1MdFanc_I	.....	...A.	.....	.T.	.....	.C.G	.....	...A.	[800]
#L1MdV_I	.....	...A.	.....	.T.	.....	.W.C.G	.....	...A.	[800]
#L1MdFanc_II	.....	.TA.	.....	.T.	.....	.T.C.G	.....	...A.	[800]
#L1MdMus_II	.....	.TA.	.....	.T.	.....	.Y.C.G	.....Y	...A.	[800]
#L1MdV_II	.....	.TA.	.....	.T.	.....	.Y.C.G	.....	...A.	[800]
#L1Lx_I	.....	.TA.	.....	.T.	.....	.T.H.G	.....	...A.	[800]
#L1Lx_III	.....	.TA.	.....	.T.	.....	.T.C.G	...N.	...A.	[800]
#L1Lx_II	.....D.	.TA.	.....	.T.	.....	.T.C.G	.....	...A.	[800]
#L1Lx_IV	.....	.TA.	.....	.T.	.....	.T.C.G	.....Y	.R.A.	[800]
#L1MdV_III	.....	.TA.	.....	.T.	.....	.T.C.G	.....	...A.	[800]

#L1MdA_I	ACAAGAAGCA	TACAGAAGCT	CAATAGACT	GGACCAGAAA	AGAAATTCCT	CCCAGACAT	AATAATCAGA	ACAACAAATG	[880]
#L1MdA_II	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdA_III	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdA_IV	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdGf_I	.....C	.....	.....	.....	.....	.....	.....	...C	[880]
#L1MdGf_II	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdTf_I	.....C	.....	.....	.....	.....	.....	.....	...T	[880]
#L1MdTf_II	.....C	.....	.....	.....	.....	.....	.....	...T	[880]
#L1MdTf_III	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdA_V	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdA_VI	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdF_V	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdF_IV	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdF_I	.....C	.....	.....	.....	.....	.....	.....	...T	[880]
#L1MdF_II	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdF_III	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdN_I	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdA_VII	.....C	.....	.....	.....	.....	...Y	.....	.....	[ 880]
#L1MdMus_I	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdFanc_I	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdV_I	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdFanc_II	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdMus_II	.....C	.....	.....	.....	.....	.....	.....	.....	[ 880]
#L1MdV_II	.....C	.....	...NT	.....	.....	...W	...A	...C	[880]
#L1Lx_I	.....YC	.....	...D	.....	.....	...H	...R	...C	[880]
#L1Lx_III	.....C	.....	...T	.....	.....	...T	...A	...C	[880]
#L1Lx_II	.H.....C	.....G	...N	.....	...H	...Y	...T	...G	[880]
#L1Lx_IV	.V.....C	.....	...T	.....	.....	...AT	...G	...A	[880]
#L1MdV_III	.....C	.....	.....	.....	.....	...T	...A	...C	[880]

#L1MdA_I	CACTAAATAA	AGATAGAATA	TTAAAAGCAG	TAAGGGAGAA	AGGTCAAGTA	ACATATAAAG	GAAGGCCTAT	CAGAATTACA	[960]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[ 960]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[ 960]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	...C	.....	[ 960]
#L1MdGf_I	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdGf_II	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdTf_I	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdTf_II	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdTf_III	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdA_V	.....	...G	.....	.....	.....	.....	.C.A	.....	[ 960]
#L1MdA_VI	.....	.....	.....	.....	.....	.....	.C	.....	[ 960]
#L1MdF_V	.....	.....	.....	.....	.....	.....	.C	.....	[ 960]
#L1MdF_IV	.....	.....	.....	.....	.....	.....	.C	.....	[ 960]
#L1MdF_I	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdF_II	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdF_III	.....	.....	C	.....	A	.....	.C.A	.....	[ 960]
#L1MdN_I	.....	...D	.....	.....	.....	.....	.C.A	.....	[ 960]
#L1MdA_VII	.....	...G	.....	.....	.....	.....	.C	.....	[ 960]
#L1MdMus_I	.....	...C	.....	...A	.....	.....	.C	...T	[960]
#L1MdFanc_I	.....	.....	.....	...A	.....	.....	.C	...T	[960]
#L1MdV_I	.....	...C	...D	.....	...A	.....	.C	...T	[960]
#L1MdFanc_II	.....	.....	.....	...A	.....	.....	.C	...A	[960]
#L1MdMus_II	.....	...CG	.....	...A	.....	.....	.C	...R	[960]
#L1MdV_II	...A...C	...A	.....	...A	...D	.....	.C	...A	[960]
#L1Lx_I	.....Y	...H	...C	...A	...N	...Y	...C	...A	[960]
#L1Lx_III	.....C	...A	.....	...A	.....	.....	.C	...A	[960]
#L1Lx_II	...A...C	...A	.....	...A	.....	.....	.C	...A	[960]
#L1Lx_IV	...A...C	...A	.....	...A	...D	.....	.C	...A	[960]
#L1MdV_III	...Y...Y	...A	.....	...A	...B	.....	.C	...AB	[960]

#L1MdA_I	CCAGACTTTT	CACCAGAGAC	TATGAAAGCC	AGAAGAGCCT	GGACAGATGT	TATACAGACA	CTAAGAGAAC	ACAAATGCCA	[1040]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[1040]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[1040]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[1040]
#L1MdGf_I	.....T.....	.....	.....	.....	.....W.....	.....	.....	.....Y.....	[1040]
#L1MdGf_II	.....T.....	.....	.....	.....	.....	.....	.....	.....T.....	[1040]
#L1MdTf_I	.....T.....	.....	.....	.....	.....	.....	.....	.....CTG..	[1040]
#L1MdTf_II	.....T.....	.....	.....	.....	.....	.....	.....	.....CTG..	[1040]
#L1MdTf_III	.....T.....	.....	.....	.....	.....	.....	.....	.....T.....	[1040]
#L1MdA_V	.....	.....	.....	.....	.....	.....	.....	.....	[1040]
#L1MdA_VI	.....	.....	.....	.....T.....	.....	.....	.....M.....	.....	[1040]
#L1MdF_V	.....	.....	.....	.....T.....	.....	.....	.....	.....	[1040]
#L1MdF_IV	.....Y.....	.....	.....	.....T.....	.....	.....	.....	.....	[1040]
#L1MdF_I	.....T.....	.....	.....	.....	.....	.....	.....	.....T.....	[1040]
#L1MdF_II	.....T.....	.....	.....	.....	.....	.....	.....	.....T.....	[1040]
#L1MdF_III	.....T.....	.....	.....	.....	.....	.....	.....	.....T.....	[1040]
#L1MdN_I	.....	.....	.....	.....	.....	.....	.....	.....	[1040]
#L1MdA_VII	.....	.....	.....	.....	.....	.....	.....	.....	[1040]
#L1MdMus_I	.....C.....	.....	.....	.....T.....	.....	.....	.....	.....	[1040]
#L1MdFanc_I	.....C.....	.....	.....	.....T.....	.....	.....D.....	.....C.....	.....	[1040]
#L1MdV_I	.....C.....	.....	.....	.....T.....	.....	.....	.....	.....	[1040]
#L1MdFanc_II	.....C.....	.....	.....	.....T.....	.....	.....	.....C.....	.....	[1040]
#L1MdMus_II	.....C.....	.....	.....	.....T.....	.....R.....	.....	.....	.....Y.....	[1040]
#L1MdV_II	..W....C..M.....	.....	.....	.....T.....	..G.....	C.....	C.....	.....	[1040]
#L1Lx_I	.....C.....	.....	.....	.....T.....	.....	.....	.....	.....	[1040]
#L1Lx_III	.....C.....	..N.....	.....T.....	.....T.....	..G....V..C...B...C.....	.....	.....	.....	[1040]
#L1Lx_II	.....C.....	..G.....	..C.....	.....T.....	..G....C..C.....	.....H.....	.....B.....	.....	[1040]
#L1Lx_IV	.....C.....	.....	.....T.....	.....T.....	..G....C..C.....	.....	.....	.....	[1040]
#L1MdV_III	.....C.....	.....	.....Y.....	.....T.....	..G....C..C.....	.....	.....	.....	[1040]

#L1MdA_I	GCCCAGGCTA	CTATACCCGG	CCAAACTCTC	AATTACCATA	GATGGAGAAA	CCAAAGTATT	CCACGACAAA	ACCAAGTTCA	[1120]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdGf_I	.....	.....A.....	.....	.....	.....	.....	.....	.....T.A.....	[1120]
#L1MdGf_II	.....	.....A.....	.....	.....Y.....	.....	.....	.....	.....T.A.....	[1120]
#L1MdTf_I	.....	.....A.....	.....	.....T.....	..G.....	.....	.....	.....A.....	[1120]
#L1MdTf_II	.....	.....A.....	.....	.....T.....	..G.....	.....	.....	.....A.....	[1120]
#L1MdTf_III	.....	.....A.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdA_V	.....	.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdA_VI	.....	.....A.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdF_V	.....	.....A.....	.....	.....T.....	.....	.....	.....Y.....	.....A.....	[1120]
#L1MdF_IV	.....	.....A.....	.....	.....Y.....	.....	.....	.....	.....A.....	[1120]
#L1MdF_I	.....	.....A.....	.....	.....	.....	.....	.....	.....T.A.....	[1120]
#L1MdF_II	.....	.....A.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdF_III	.....	.....A.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdN_I	.....	.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdA_VII	.....	.....	.....	.....	.....	.....	.....	.....A.....	[1120]
#L1MdMus_I	.....	.....A.....	.....A.....	.....	.....	.....	.....T.....	.....A.....	[1120]
#L1MdFanc_I	.....	.....A.....	.....A.....	.....	.....	.....	.....T.Y.....	.....A.....	[1120]
#L1MdV_I	.....	.....A.....	.....H.....	.....	.....	.....	.....T.....	.....A.....	[1120]
#L1MdFanc_II	.....	.....A.....	.....A.....	.....	.....	.....	.....T.....	.....A.....	[1120]
#L1MdMus_II	.....	.....A.....	.....A.....	.....	.....	.....	.....T.....	.....A.....	[1120]
#L1MdV_II	.....	.....A.....	.....A.....	.....	.....	.....G.....	.....T.....	.....A.T.....	[1120]
#L1Lx_I	D....R.....	.....HA.....	.....A.....	.....H.....	.....	.....	.....T.....	.....A.Y.....	[1120]
#L1Lx_III	D....A..D.....	.....C.....	.....A.....	.....G.....	.....GA.....	.....	.....T.....	.....A.T.....	[1120]
#L1Lx_II	.....N.....	.....A.....	.....A.....	.....	.....GA.....	.....	.....T.....	..MN..A..T.....	[1120]
#L1Lx_IV	.....R.....	.....A.....	.....A.....	.....	.....GA.....	.....	.....T.....	..AH..A..T.....	[1120]
#L1MdV_III	.....	.....A.....	.....A.....	.....H.....	.....	.....	.....T.....	.....A..T.....	[1120]

#L1MdA_I	CACAATATCT	TTCCACGAAT	CCAGCCCTTC	AAAGGATAAT	AACAGAAAAG	AAGCAATACA	AGGACGGAAA	TCACGCCCTA	[1200]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[1200]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[1200]
#L1MdA_IV	.....T.....	.....	.....	.....	.....A.....	.....A.....	.....A.....	.....	[1200]
#L1MdGf_I	..C..T.....	C.....	.....	.....	.....A.....	.....M.....	.....G.....	C.....	[1200]
#L1MdGf_II	..C..T.....	C.....	.....	.....	.....A.....	.....C.....	.....G.....	C.....	[1200]
#L1MdTf_I	..G..T.....	C.....	.....	.....	.....A.....	.....C.....	.....A.....	..G..CA.....	[1200]
#L1MdTf_II	..G..T.....	C.....	.....	.....	.....A.....	.....C.....	.....A.....	..G..CA.....	[1200]
#L1MdTf_III	.....T.....	C.....	.....	.....T.....	.....A.....	.....C.....	.....A.....	..G..CA.T.....	[1200]
#L1MdA_V	.....T.....	.....	.....	.....	.....	.....	.....	.....	[1200]
#L1MdA_VI	.....T.....	.....	.....	.....	.....A.....	.....C.....	.....	C.....	[1200]
#L1MdF_V	.....T.....	.....	.....	.....	.....A.....	.....AA.....	.....	C.....Y.....	[1200]
#L1MdF_IV	.....T.....	.....	.....	.....	.....A.....	.....A.....	.....	C.....Y.....	[1200]
#L1MdF_I	..C..T.....	C.....	.....	.....	.....A.....	.....C.....	.....	..G..C.....	[1200]
#L1MdF_II	.....T.....	C.....	.....	.....	.....A.....	.....C.....	.....R.....	..G..CM.....	[1200]
#L1MdF_III	.....T.....	.....	.....	.....	.....A.....	.....C.....	.....	C.....T.....	[1200]
#L1MdN_I	.....T.....	.....	.....	.....	.....	.....	.....	.....	[1200]
#L1MdA_VII	.....T.....	.....	.....	.....	.....	.....M.....	.....	.....	[1200]
#L1MdMus_I	.....	.....	.....	.....	..AG..G...A	C.C...C...	..A..T.....	BT..A.....	[1200]
#L1MdFanc_I	.....	.....	.....	.....	..AG..G...A	C.C...C...	.....G.....	CT..A.....	[1200]
#L1MdV_I	.....	.....	.....	.....	..G..R...A	C.C...C...	.....	CT.....	[1200]
#L1MdFanc_II	.....	.....	.....	.....	..AG..G...A	CTC...C...	.....G.....	..T.T.....	[1200]
#L1MdMus_II	.....	.....	.....	.....	..AG..G...A	CGC...C...	.....	..T.....	[1200]
#L1MdV_II	.....	.....A.....	.....	.....	..AG..G...A	CTY...C...	..R..G.....	CT...Y.G.....	[1200]
#L1Lx_I	.....	.....A.....	.....Y.....	.....	..AG..G...A	CTC...C...	.....G.....	CT.....	[1200]
#L1Lx_III	..H.N.....	.....A.....	.....A.....	.....	..GAT..G...A	CGC...C...	.....G.....	CT..A.....	[1200]
#L1Lx_II	.....N.....	.....	.....W.....	.....	..AT..G...A	CTC...N.....	.....N.....	CT..A.....	[1200]
#L1Lx_IV	.....	.....A.....	.....A.....	.....	..GAT..G...A	CGC...Y.....	.....G.....	CT..A.....	[1200]
#L1MdV_III	.....	.....BA.....	.....A.....	.....	..GAT..G...A	C.C...C...	.....G.....	CT..A.....	[1200]

#L1MdA_I GAACAACCAA GAAAGTAATC ---ATTCAAC AAACCAAAAA GAAGACAGCC ACAAGAACAG AATGCCAACT CTAACAACAA [1280]
#L1MdA_IIG..... ---CC..... [1280]
#L1MdA_IIIA.G..... ---CC..... G..... W..... A..... [1280]
#L1MdA_IVA.A..... .GA..... ---CM..... .T..... .A..... T..... [1280]
#L1MdGf_IA.A..... .GA..... ---CC..... .A.T..... T..... [1280]
#L1MdGf_IIA.A..... .G..... ---CC..... .T..... C.T..... T..... [1280]
#L1MdTf_IA.A..... .G..... ---CC..... .T..... C.T..... T..... [1280]
#L1MdTf_IIA.A..... .G..... ---CC..... .T..... C.T..... T..... [1280]
#L1MdTf_IIIA.A..... .G..... ---CC..... .T..... S..... [1280]
#L1MdA_VA.G..... ---CC..... .M..... [1280]
#L1MdA_VIA.G..... ---C..... .T..... [1280]
#L1MdF_VA.G..... ---C..... .T..... [1280]
#L1MdF_IVA.A..... .GA..... ---CC..... .A.T..... T..... [1280]
#L1MdF_IA.A..... .G..... ---CC..... .T..... T..... [1280]
#L1MdF_IIA.G..... .G..... ---CC..... .T..... T..... [1280]
#L1MdF_IIIA.G..... .G..... ---CC..... .T..... T..... [1280]
#L1MdN_IA.G..... ---CC..... [1280]
#L1MdA_VIIA.G..... ---C.T..... .A.T..... .T.C..... T..... [1280]
#L1MdMus_IA.G..... ---C..... .T..... G..... .C..... T..... [1280]
#L1MdFanc_IA.G..... ---C..... .T..... B..... G..... .C..... [1280]
#L1MdV_IA.G..... ---T..... .T..... .T..... .T..... .V..... [1280]
#L1MdFanc_IIA.G..... ---Y..... .B.H..... .N..... .C..... .C..... [1280]
#L1MdMus_IIA.G..... TTCT..... .CG..... .T.A..... .CA..... T..... .AAA----- -..... T..... [1280]
#L1Lx_IA.G..... D...R..... TTCT..T..... .N..... .T.N..... .TA..... T..... T.H.CH..... V..... [1280]
#L1Lx_IIIA.G..... TTCT..... .C..... .T.R..... .CA..... T..... .AAV----- -..... T..... [1280]
#L1Lx_IIA.G..... ---T..... .C..... .T..... .CA..... T..... .T..... C..... [1280]
#L1Lx_IVA.G..... ---T..... .C..... .T..... .CA..... T..... .T..... C..... [1280]
#L1MdV_IIIA.G..... ---T..... .C..... .T..... .CA..... T..... .T..... C..... [1280]

#L1MdA_I AAATAAAAGG GAGCAACAAT TACTTTTCCT TAATATCTCT TAATATCAAT GGACTCAATT CCCCAATAAA AAGACATAGA [1360]
#L1MdA_IIA..... [1360]
#L1MdA_IIIA..... [1360]
#L1MdA_IVA..... [1360]
#L1MdGf_IC..... A..... .C..... [1360]
#L1MdGf_IIC.C..... A..... .T..... C..... [1360]
#L1MdTf_IC..... A..... .C..... .T..... C..... G..... [1360]
#L1MdTf_IIC..... A..... .C..... .T..... C..... G..... [1360]
#L1MdTf_IIIC..... A..... .C..... .T..... C..... [1360]
#L1MdA_VT..... A..... [1360]
#L1MdA_VIT..... A..... [1360]
#L1MdF_VT..... A..... [1360]
#L1MdF_IVC..... A..... .T..... C..... [1360]
#L1MdF_IC..... A..... .T..... C..... [1360]
#L1MdF_IIY..... A..... .C..... [1360]
#L1MdF_IIIY..... A..... .C..... [1360]
#L1MdN_IG.C..... A..... .T..... .G.T..... .C..... [1360]
#L1MdA_VIIC..... A..... .T..... .T..... .C..... [1360]
#L1MdMus_IC..... A..... .Y..... .H..... .M..... .G..... [1360]
#L1MdFanc_IC..... A..... .C.G..... .D..... [1360]
#L1MdV_IC..... A..... .Y..... [1360]
#L1MdFanc_IIC..... A..... .Y..... .H..... .M..... .G..... [1360]
#L1MdMus_IIC..... A..... .C.G..... .D..... [1360]
#L1Lx_IC..... A..... .Y..... [1360]
#L1Lx_III H....C..... R..... C...A..... .C..... [1360]
#L1Lx_IIN..... A.N..... C...A..... .C..... Y..... [1360]
#L1Lx_IVC..... A..... .C...A..... .C..... [1360]
#L1MdV_IIIC..... A.T..... C..... .C..... .G..... [1360]

#L1MdA_I CTAACAGACT GGCTACACAA ACAGGACCCA ACATTCTGCT GCTTACAGGA AACCCATCTC AGGGAAAAAG ACAGACACTA [1440]
#L1MdA_IIM..... [1440]
#L1MdA_IIIM..... [1440]
#L1MdA_IVM..... [1440]
#L1MdGf_IA..... .A..... .T..... .T..... .A..... .T..... [1440]
#L1MdGf_IIA..... .A..... .T..... .T..... .A..... .T..... [1440]
#L1MdTf_IA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdTf_IIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdTf_IIIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdA_VA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdA_VIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdF_VA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdF_IVA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdF_IA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdF_IIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdF_IIIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdN_IA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdA_VIIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdMus_IA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdFanc_IA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdV_IA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdFanc_IIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdMus_IIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1MdV_IIA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1Lx_IA..... .A..... .T..... .T..... G..A..... .A..... .T..... [1440]
#L1Lx_III H....G..... Y...H..... .GT..... .N..... .T..... .A..... .G..CH..... .T.TC..... .A..... [1440]
#L1Lx_IIR.A..... .GT..... .N..... .T..... .A..... .G..C..... .T.N..... .N..... [1440]
#L1Lx_IVA..... .GGT..... .G..... .T..... .A..... .V..... .G..C..... .T.TC..... .R..... [1440]
#L1MdV_IIIA..... .GGT..... .G..... .T..... .A..... .V..... .G..C..... .T.TC..... .R..... [1440]

#L1MdA_I	CCTCAGAGTG	AAAGGCTGGA	AAACAATTTT	CCAAGCAAAT	GGACTGAAGA	AACAAGCTGG	AGTAGCCATT	TTAATATCGG	[1520]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[1520]
#L1MdA_III	.....	.....	.....	.....	T.....	.....	.....	C.....	[1520]
#L1MdA_IV	.....	.....	.....	.....	T.....	.....	.....	C.G.....A	[1520]
#L1MdGf_I	.....	.....	.....	.....	T.....	G.....	.....	C.....	[1520]
#L1MdGf_II	.....	.....	.....	.....	T.....	.....	.....	.....	[1520]
#L1MdTf_I	.....A.....	.....	.....	.....	TA.....	A.....	.....	C.....T.	[1520]
#L1MdTf_II	.....A.....	.....	.....	.....	TA.....	A.....	.....	C.....T.	[1520]
#L1MdTf_III	.....A.A.....	.....	.....	.....	TA.....	.....	.....	C.....T.	[1520]
#L1MdA_V	.....	.....	.....	.....	T.....	.....	.....	C.....	[1520]
#L1MdA_VI	.....	.....	.....	.....	T.....	.....	.....	C.....A	[1520]
#L1MdF_V	.....A.....	.....	.....	.....	T.....	.....	.....	C.....KA	[1520]
#L1MdF_IV	.....R.....	.....	.....	.....	T.....	.....	.....	C.....A	[1520]
#L1MdF_I	.....A.....	.....	.....	.....	TA.....	.....	.....	Y.....T.	[1520]
#L1MdF_II	.....A.....	.....	.....	.....	TA.....	.....	.....	C.....T.	[1520]
#L1MdF_III	.....A.....	.....	.....	.....	TA.....	.....	.....	C.....TA	[1520]
#L1MdN_I	.....	.....	.....	.....	T.....	.....	.....	C.....	[1520]
#L1MdA_VII	.....	.....	.....	.....	T.....	.....	.....	C.....A	[1520]
#L1MdMus_I	.....A.....	.....	.....	.....	T.C.....	.....	.....	C.....A	[1520]
#L1MdFanc_I	.....	.....	.....	.....	T.C.....	.....	.....	C.....A	[1520]
#L1MdV_I	.....	.....	.....	.....C.....	T.....	.....	.....	C.....A	[1520]
#L1MdFanc_II	.....A.....	.....	.....	.....	T.C.....	.....	.....	C.....A	[1520]
#L1MdMus_II	.....RD.A.....	.....	.....	.....	T.Y.....	B.....	H.....	C.....A	[1520]
#L1MdV_II	.....Y.....A.....	.....	.....W.....	.....	R.T.CC.....	N.....	.....	C.....A	[1520]
#L1Lx_I	.....V.D.....	.....	.....	.....	T.CC.....	.....	.....	C.....A	[1520]
#L1Lx_III	.....A.....	G.....	.....	.....	T.CC.....	G.....	.....	C.....R	[1520]
#L1Lx_II	N.....A.....	.....	H.....Y.....	.....	T.CN.....	.....	.....	C.....A	[1520]
#L1Lx_IV	.....A.....	G.....	.....	.....	T.CC.....	.....	.....	C.....A	[1520]
#L1MdV_III	.....A.....	T.....	H.....	Y.....	T.CC.....	.....	.....	C.....AA	[1520]

#L1MdA_I	ATAAAATCGA	CTTCCAACCC	AAAGTTATCA	AAAAAGACAA	GGAGGGACAC	TTCATACTCA	TCAAAGGTAA	AATCCTCCAA	[1600]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdGf_II	.....	.....	T.....	.....	.....	.....	.....	.....	[1600]
#L1MdTf_I	.....G.T.....	.....	C.....	.....	.....	T.....	.....	.....	[1600]
#L1MdTf_II	.....G.T.....	.....	C.....	.....	.....	T.....	.....	.....	[1600]
#L1MdTf_III	.....G.T.....	.....	C.....	.....	.....	G.....	YG.T.....	.....	[1600]
#L1MdA_V	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdA_VI	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdF_V	.....	.....	.....	.....	.....	.....	.....	Y.....	[1600]
#L1MdF_IV	.....	.....	.....	.....	G.....	.....	.....	T.....	[1600]
#L1MdF_I	.....G.T.....	.....	H.....	.....	G.....	.....	.....	.....	[1600]
#L1MdF_II	.....G.T.....	.....	C.....	.....	G.....	T.....	.....	.....	[1600]
#L1MdF_III	.....	.....	C.....	.....	G.....	.....	.....	.....	[1600]
#L1MdN_I	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdA_VII	.....	.....	.....	.....	.....	.....	.....	.....	[1600]
#L1MdMus_I	.....	.....	.....	.....	G.....	.....	.....	TA.....	[1600]
#L1MdFanc_I	.....T.....	.....	.....	.....	T.G.....	.....	.....	TA.....	[1600]
#L1MdV_I	.....	.....	.....	.....	G.....	.....	.....	T.....	[1600]
#L1MdFanc_II	.....	.....	.....	.....	G.....	.....	.....	T.....	[1600]
#L1MdMus_II	.....	.....	.....	M.....	C.....	G.....	.....	T.....	[1600]
#L1MdV_II	.....	T.....	T.....	M.....	Y.....	.....	W.....	BTA.....	[1600]
#L1Lx_I	.....	T.....	Y.....	.....	.....	G.....	.....	TA.....	[1600]
#L1Lx_III	.....	T.....	A.....	C.....	R.T.....	AR.....	Y.....	A.....TA.....	[1600]
#L1Lx_II	.....	T.....	NT.....	.....	D.T.....	R.N.....	G.....	DA.....TA.....	[1600]
#L1Lx_IV	.....	T.....	A.....	C.....	.....	T.....	.....	A.....TA.....	[1600]
#L1MdV_III	.....	T.....	A.....	.....	G.T.....	R.A.....	.....	GG.....A.....TA.....	[1600]

#L1MdA_I	GAGGAACTCT	CAATTCTGAA	TATCTACGCA	CCAATGCAA	GGGCAGCCAC	ATTCATTAGA	GACACTTtag	TAAAGCTCAA	[1680]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[1680]
#L1MdA_III	.....	.....	.....	T.....	.....	A.....	.....	.....	[1680]
#L1MdA_IV	.....	.....	.....	T.C.....	.....	A.....	Y.....	.....	[1680]
#L1MdGf_I	.....	.....	.....	T.....	.....	A.....	.....	.....	[1680]
#L1MdGf_II	.....	.....	.....	T.....	.....	A.....	.....	.....	[1680]
#L1MdTf_I	.....	.....	T.....	T.....	A.....	A.....	C.A.....	A.....	[1680]
#L1MdTf_II	.....	.....	T.....	T.....	A.....	A.....	C.A.....	A.....	[1680]
#L1MdTf_III	.....	.....	T.....	T.....	A.....	.....	A.....	A.....	[1680]
#L1MdA_V	.....	.....	.....	T.....	.....	A.....	.....	.....	[1680]
#L1MdA_VI	.....	.....	T.....	T.....	.....	A.....	A.....	.....	[1680]
#L1MdF_V	.....	.....	T.....	T.....	.....	A.....	A.....	.....	[1680]
#L1MdF_IV	.....	.....	T.....	T.....	.....	A.....	N.....	.....	[1680]
#L1MdF_I	.....	.....	T.....	T.....	A.....	.....	A.....	.....	[1680]
#L1MdF_II	.....M.....	.....	T.....	T.....	A.....	.....	A.....	.....K.....	[1680]
#L1MdF_III	.....A.....	.....	T.....	T.....	A.....	.....	A.....	.....	[1680]
#L1MdN_I	.....	.....	.....	T.....	.....	.....	A.....	.....	[1680]
#L1MdA_VII	.....	.....	.....	T.....	.....	A.....	.....	.....	[1680]
#L1MdMus_I	.....T.....	A.....	.....	T.....	T.....	A.....	A.....	.....	[1680]
#L1MdFanc_I	.....T.....	.....	.....	T.....	T.....	A.....	A.....	.....	[1680]
#L1MdV_I	.....K.....	.....	.....	T.....	T.....	A.....	A.....	.....	[1680]
#L1MdFanc_II	.....C.....	.....	.....	T.....	T.....	T.....	AG.....	A.....H.....Y.....	[1680]
#L1MdMus_II	.....T.....	.....	.....	T.....	T.....	K.....	AR.....	A.....H.....	[1680]
#L1MdV_II	.....T.....	.....	C.....	T.....	T.....	T.....	A.....	A.....RB.....N.....	[1680]
#L1Lx_I	.....	.....	C.....	T.....	T.....	T.....	A.....	A.....	[1680]
#L1Lx_III	.....A.....	.....	C.....	T.....	T.....	VN.C.....	A.A.....	A.....C.....N.A.....	[1680]
#L1Lx_II	.....W.....	.....	C.....	T.....	T.....	.....	A.A.....	A.....C.....	[1680]
#L1Lx_IV	.....A.....	.....	C.....	T.....	T.....	.....	A.A.....	A.....C.....	[1680]
#L1MdV_III	.....T.....	.....	C.....	T.....	T.....	.....	A.A.....	A.....C.....	[1680]

#L1MdA_I	AGCATACATT	GCACCTCACA	CAATAATAGT	GGGAGACTTC	AACACACCAC	TTTCTTCAAA	GGACAGATCG	TGGAACAGA	[1760]	
#L1MdA_II	.....	.....	.....	.....	.....	.....D	.....	.....	[1760]
#L1MdA_III	...C.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdA_IV	...C.....	.....	.....	.....	.....	.....A...T	R.....	.....	[1760]
#L1MdGf_I	...C.....	.....	.....	.....C	.....	.....A...T	.....	.....	[1760]
#L1MdGf_II	...C.G.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdTf_I	...C.....	.....G	.....	.....	.....	.....AC...T	.....A	.....	[1760]
#L1MdTf_II	...C.....	.....G	.....	.....	.....	.....AC...T	.....A	.....	[1760]
#L1MdTf_III	...C.....	.....	.....	.....	.....	.....AC...T	.....A	.....	[1760]
#L1MdA_V	...C.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdA_VI	...C.Y.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdF_V	...C.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdF_IV	...C.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdF_I	...C.....	.....	.....	.....	.....	.....AC...T	.....A	.....	[1760]
#L1MdF_II	...C.....	.....	.....	.....	.....	.....AC...T	.....A	.....	[1760]
#L1MdF_III	...C.....	.....	.....	.....	.....	.....AC...T	.....A	.....	[1760]
#L1MdN_I	...C.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdA_VII	...C.....	.....	.....	.....	.....	.....A...T	.....	.....	[1760]
#L1MdMus_I	...C.....	.....	.....	.....	.....C	.....C.AC...T	.....C	.....	[1760]
#L1MdFanc_I	...C.....	.....	.....	.....	.....C	.....C.AC...T	.....C	.....	[1760]
#L1MdV_I	...C.....	.....	.....	.....	.....C	.....Y.A...T	.....	.....	[1760]
#L1MdFanc_II	...C.....	.....	.....	.....	.....C	.....C.A...T	.....C	.....	[1760]
#L1MdMus_II	...C.Y.....	.....Y	.....	.....H	.....C	.....C.A...T	.....C	.....	[1760]
#L1MdV_II	...C.....	.....R	.....	.....	.....C	.....C.A...T	.....H	.....	[1760]
#L1Lx_I	.N.C.....	.....B...G	.....	.....	.....NC	.....C.A...T	.....H	.....	[1760]
#L1Lx_III	...C.....TGNCC.A...TNAGC	[1760]
#L1Lx_II	...C...N	.....D	.....	.....N.V.N	.....H.NC.H	.....C.AN...T	.....D...A	.....	[1760]
#L1Lx_IV	...C.....	.....	.....	.....	.....C	.....C.A...T	.....A	.....C	[1760]
#L1MdV_III	...C.....	.....R.Y.C	.....	.....T	.....C	.....C.AG...T	.....R...A	.....	[1760]

#L1MdA_I	AACATAACAG	GGACACAGTG	AAACTAACAG	AAGTTATGAA	ACAAATGGAC	CTGACAGATA	TCTACAGAAC	ATTTTATCTT	[1840]	
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[1840]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[1840]
#L1MdA_IV	.....	.....	.....	.....	.....	T.A.....	.....	.....	[1840]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....T	.....A	[1840]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[1840]
#L1MdTf_I	.....C.....	.....	.....G	.....	.....T	.....	.....	.....WC	[1840]
#L1MdTf_II	.....C.....	.....	.....G	.....	.....T	.....	.....	.....	[1840]
#L1MdTf_III	.....C.....	.....	.....G	.....	.....T	.....	.....	.....	[1840]
#L1MdA_V	.....	.....	.....	.....	.....T	.....	.....	.....	[1840]
#L1MdA_VI	.....	.....	.....K	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdF_V	.....	.....	.....	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdF_IV	.....	.....	.....	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdF_I	.....	.....	.....G	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdF_II	.....	.....	.....K	.....	.....T	.....	.....	.....	[1840]
#L1MdF_III	.....	.....	.....	.....	.....T	.....	.....	.....	[1840]
#L1MdN_I	.....	.....	.....	.....	.....T	.....	.....	.....	[1840]
#L1MdA_VII	.....	.....	.....	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdMus_I	.....A.....	.....TG	.....C	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdFanc_I	.....A.....	.....TG	.....C	.....	.....T	T.A.T.....	.....	.....	[1840]
#L1MdV_I	.....D.....	.....	.....	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdFanc_II	.....A.....	.....T	.....	.....	.....T	T.A.....	.....	.....	[1840]
#L1MdMus_II	.....A.....	.....B	.....	.....	.....V	.....T	T.A.....	.....H	[1840]
#L1MdV_II	.....A.....	.....	.....	.....	.....T	T.A.....	.....T	.....Y	[1840]
#L1Lx_I	.....A.....	.....	.....	.....	.....T	T.A.....	.....T	.....	[1840]
#L1Lx_III	.....A.....	.....	.....W.G	.....C	.....T	T.A.H.B	.....VT	.....C	[1840]
#L1Lx_II	.....A.....	.....	.....	.....	.....T	T.A.....	.....B	.....H	[1840]
#L1Lx_IV	.....A.....	.....	.....R	.....C	.....T	T.A.....	.....T	.....C	[1840]
#L1MdV_IIIA.....CT	A...R...TTC	[1840]

#L1MdA_I	AAAACAAAAG	GATATACCTT	CTTCTCAGCA	CCTCACGGGA	CCTTCTCCAA	AATTGACCAT	ATAATTGGTC	ACAAAACAGG	[1920]		
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[1920]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[1920]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....Y	[1920]
#L1MdGf_I	.....	.....	.....	.....	.....G	.....	.....	.....T.A	[1920]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[1920]
#L1MdTf_IT.TCAT	[1920]	
#L1MdTf_IIT.TCAT	[1920]	
#L1MdTf_IIIT.TCA	[1920]	
#L1MdA_V	.....	.....	.....	.....	.....	.....	.....	.....	[1920]
#L1MdA_VI	.....	.....	.....	.....	.....T.T	.....	.....	.....	[1920]
#L1MdF_V	.....	.....	.....	.....	.....T.T	.....	.....Y	.....	[1920]
#L1MdF_IV	.....	.....	.....	.....	.....T.T	.....	.....	.....	[1920]
#L1MdF_IT.TTCA	[1920]	
#L1MdF_IIT.TCA	[1920]	
#L1MdF_IIIT.TCA	[1920]	
#L1MdN_I	.....	.....	.....	.....	.....	.....	.....	.....Y	[1920]
#L1MdA_VII	.....	.....	.....	.....	.....	.....	.....	.....	[1920]
#L1MdMus_I	.....	.....	.....	.....	.....T.T	.....C	.....	.....	[1920]
#L1MdFanc_I	.....	.....	.....G	.....A	.....T.T	.....C	.....	.....	[1920]
#L1MdV_I	.....	.....	.....	.....	.....T.T	.....	.....	.....	[1920]
#L1MdFanc_II	.....	.....	.....	.....	.....T.T	.....	.....	.....	[1920]
#L1MdMus_IIT.YY.CH	[1920]	
#L1MdV_IIT.TYCH	[1920]	
#L1Lx_IT.TYH.YCN	[1920]	
#L1Lx_IIIT.....AT.TYGCTA	[1920]
#L1Lx_IIAC	[1920]	
#L1Lx_IVD.....AT.TYCA	[1920]
#L1MdV_IIIG.....AYT.TYB	[1920]	

#L1MdA_I	CCTCAATAGA	TACAAAAATA	TTGAAATTGT	CCCATGTATC	CTATCAGACC	ACCATGGCCT	AAGACTGATC	TTCAATAACA	[2000]						
#L1MdA_II	.....H	.....	.....	.....	.....	.....	.....	.....	[2000]
#L1MdA_III	.....C	.....	.....	.....	.....	.....	.....	.....	[2000]
#L1MdA_IV	.....C	.....	.....	.....Y	.....	.....A	.....G	.....	[2000]
#L1MdGf_I	.....C	.....	.....	.....	.....	.....	.....	.....	[2000]
#L1MdGf_II	.....C	.....	.....	.....	.....	.....	.....	.....	[2000]
#L1MdTf_I	.....C	.....T	.....	.....	.....T	.....CA	.....G	.....	[2000]
#L1MdTf_II	.....C	.....T	.....	.....	.....T	.....CA	.....G	.....	[2000]
#L1MdTf_III	.....C	.....T	.....	.....	.....T	.....CA	.....G	.....	[2000]
#L1MdA_V	.....C	.....	.....	.....	.....	.....	.....G	.....	[2000]
#L1MdA_VI	.....C	.....	.....C	.....C	.....	.....A	.....G	.....	[2000]
#L1MdF_V	.....C	.....	.....	.....C	.....T	.....A	.....G	.....	[2000]
#L1MdF_IV	.....C	.....	.....	.....C	.....T	.....A	.....G	.....	[2000]
#L1MdF_I	.....C	.....T	.....	.....C	.....Y	.....A	.....G	.....	[2000]
#L1MdF_II	.....C	.....W	.....	.....C	.....T	.....CA	.....G	.....	[2000]
#L1MdF_III	.....C	.....T	.....	.....C	.....T	.....A	.....G	.....	[2000]
#L1MdN_I	.....C	.....	.....	.....	.....	.....	.....G	.....	[2000]
#L1MdA_VII	.....C	.....	.....	.....C	.....	.....A	.....G	.....	[2000]
#L1MdMus_I	.....C	.....	.....A	.....C	.....T	.....CA	.....G	.....	[2000]
#L1MdFanc_IMCACTTCAG	[2000]					
#L1MdV_I	.....C	.....	.....	.....C	.....T	.....A	.....G	.....	[2000]
#L1MdFanc_II	.....C	.....	.....A	.....C	.....T	.....CA	.....G	.....	[2000]
#L1MdMus_II	.....C	.....	.....HA	.....C	.....T	.....CA	.....G	.....	[2000]
#L1MdV_IIVCAACYTCAG	[2000]					
#L1Lx_I	.....C	.....	.....AA	.....C	.....T	.....CA	.....G	.....	[2000]
#L1Lx_IIICTGGAARCCTTRATGGGG	[2000]
#L1Lx_IICGGAACTNCAGG	[2000]	
#L1Lx_IVCNTGGAACMTGATGGGG	[2000]
#L1MdV_IIICGGAACHTAGGATC	[2000]	
#L1MdA_I	ACATAAATAA	TGGAAGCCA	ACATTACCGT	GGAAACTGAA	TAACACTCTT	CTCAATGATA	CCTTGGTCAA	GGAAGGAATA	[2080]						
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[2080]
#L1MdA_III	.....	.....	.....	.....	.....	.....C	.....	.....	[2080]
#L1MdA_IV	.....	.....	.....W	.....	.....Y	.....	.....	.....W	[2080]
#L1MdGf_I	.....T	.....G	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdGf_II	.....	.....	.....D	.....	.....C	.....	.....	.....	[2080]
#L1MdTf_I	.....A	.....CA	.....A	.....	.....C	.....	.....	.....	[2080]
#L1MdTf_II	.....A	.....CA	.....A	.....	.....C	.....	.....	.....	[2080]
#L1MdTf_III	.....A	.....A	.....CA	.....C	.....	.....	.....	.....	[2080]
#L1MdA_V	.....	.....	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdA_VI	.....	.....	.....A	.....	.....C	.....	.....	.....	[2080]
#L1MdF_V	.....	.....A	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdF_IV	.....	.....A	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdF_I	.....A	.....A	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdF_II	.....A	.....A	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdF_III	.....A	.....A	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdN_I	.....	.....	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdA_VII	.....	.....	.....	.....	.....C	.....	.....	.....	[2080]
#L1MdMus_I	.....G	.....A	.....	.....	.....C	.....A	.....	.....A	[2080]
#L1MdFanc_IDACATTA	[2080]					
#L1MdV_I	.....	.....AV	.....	.....	.....C	.....C	.....	.....A	[2080]
#L1MdFanc_II	.....	.....A	.....	.....	.....G	.....A	.....A	.....A	[2080]
#L1MdMus_IIRASNAMA	[2080]					
#L1MdV_IIARCNGVAA	[2080]					
#L1Lx_ICAATGCAACA	[2080]				
#L1Lx_IIIACCAHAAGCGAANAK	[2080]
#L1Lx_IIWCAHAAGCGAANHA	[2080]
#L1Lx_IVACCAAAGCGAAAAA	[2080]	
#L1MdV_IIIAYCDACATAGCTGAAA	[2080]	
#L1MdA_I	AAGAAAGAAA	TTAAAGACTT	TTTAGAGTTT	AATGAAAATG	AAGCCACAAC	GTACCCAAAC	CTATGGGACA	CAATGAAAGC	[2160]						
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[2160]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....T	.....	[2160]
#L1MdA_IV	.....	.....	.....	.....	.....	.....A	.....	.....	[2160]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....T	.....	[2160]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[2160]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....T	.....	[2160]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....T	.....	[2160]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....T	.....	[2160]
#L1MdA_V	.....	.....	.....	.....	.....	.....A	.....	.....	[2160]
#L1MdA_VI	.....	.....	.....	.....	.....	.....A	.....T	.....W	[2160]
#L1MdF_V	.....	.....	.....	.....	.....	.....A	.....T	.....	[2160]
#L1MdF_IV	.....	.....	.....	.....	.....	.....A	.....T	.....	[2160]
#L1MdF_I	.....	.....G	.....G	.....	.....	.....A	.....T	.....	[2160]
#L1MdF_II	.....	.....G	.....C	.....C	.....	.....TT	.....A	.....T	[2160]
#L1MdF_III	.....	.....G	.....G	.....	.....	.....A	.....T	.....	[2160]
#L1MdN_I	.....	.....	.....	.....	.....	.....A	.....	.....	[2160]
#L1MdA_VII	.....	.....	.....	.....	.....	.....A	.....	.....	[2160]
#L1MdMus_I	.....	.....	.....	.....	.....	.....A	.....T	.....	[2160]
#L1MdFanc_I	.....	.....	.....	.....	.....	.....A	.....T	.....G	[2160]
#L1MdV_I	.....	.....	.....	.....	.....	.....A	.....T	.....	[2160]
#L1MdFanc_II	.....R	.....	.....	.....	.....	.....A	.....T	.....	[2160]
#L1MdMus_II	.....C	.....	.....	.....	.....	.....A	.....T	.....	[2160]
#L1MdV_II	.....	.....	.....	.....	.....	.....A	.....N	.....T	[2160]
#L1Lx_I	.....	.....	.....	.....	.....	.....A	.....T	.....	[2160]
#L1Lx_IIIARTAYT	[2160]					
#L1Lx_II	.....	.....	.....V	.....	.....	.....GN	.....A	.....T	[2160]
#L1Lx_IV	.....	.....R	.....	.....A	.....	.....GY	.....A	.....T	[2160]
#L1MdV_IIIAATAT	[2160]					

#L1MdA_I	ATTTCTAAGA	GGGAAACTCA	TAGCGCTGAG	TGCTTCCAAG	AAGAAACGGG	AGACAGCACA	TACTAGCAGC	TTGACAACAC	[2240]					
#L1MdA_II			T			V			[2240]					
#L1MdA_III			T			G			[2240]					
#L1MdA_IV			T		T	G	C		[2240]					
#L1MdGf_I			T	A		G			[2240]					
#L1MdGf_II			T			G			[2240]					
#L1MdTf_I			TA	T	A	G			[2240]					
#L1MdTf_II			TA	T	A	G			[2240]					
#L1MdTf_III			T		T	G			[2240]					
#L1MdA_V			T			G			[2240]					
#L1MdA_VI			T	A	TA	G	C		[2240]					
#L1MdF_V	A		T	A	TA	G	C		[2240]					
#L1MdF_IV	A		T	A	TA	G	C		[2240]					
#L1MdF_I	C	A	T	A	TA	G	C	T	[2240]					
#L1MdF_II	A		T	A	TA	G	T	C	T	[2240]				
#L1MdF_III	A		T	A	TA	G	C	T	[2240]					
#L1MdN_I			T			G			[2240]					
#L1MdA_VII			T	A	TA	G	C		[2240]					
#L1MdMus_I	G	C	A	C	A	TA	G	T	C	G	[2240]			
#L1MdFanc_I	G	C	A	C	A	TA	G	T	C	G	[2240]			
#L1MdV_I	Y	A	T	A	TA	G	H	C		G	[2240]			
#L1MdFanc_II	G	C	A	T	G	A	TA	G	T	C	[2240]			
#L1MdMus_II	C	A	T	A	TA	G	R	T	C	Y	G	[2240]		
#L1MdV_II	G	C	A	T	A	D	T	NG	T	C	G	[2240]		
#L1Lx_I	B	C	A	T	A	T	G	D	T	Y	H	G	[2240]	
#L1Lx_III	G	G	A	T	A	T	G	T	C	NT	A	G	[2240]	
#L1Lx_II	G	N	A	T	A	T	G	T	C		R	G	[2240]	
#L1Lx_IV	G	G	A	T	A	T	G	T	C		A	G	[2240]	
#L1MdV_III	G	GS	A	T	A	T	D	G	VYTT	C	H	G	G	[2240]

#L1MdA_I	ATCTAAAAGC	CCTAGAAAAA	AAGGAAGCAA	ATTCACCCAA	GAGGAGTAGA	CGGCAGGAAA	TAATCAAACCT	CAGGGGTGAA	[2320]			
#L1MdA_II									[2320]			
#L1MdA_III		T							[2320]			
#L1MdA_IV		T							[2320]			
#L1MdGf_I		T							[2320]			
#L1MdGf_II		T							[2320]			
#L1MdTf_I		T							[2320]			
#L1MdTf_II		T							[2320]			
#L1MdTf_III		T							[2320]			
#L1MdA_V		T							[2320]			
#L1MdA_VI	C	T						C	[2320]			
#L1MdF_V	C	T	C					C	[2320]			
#L1MdF_IV	C	T	C					C	[2320]			
#L1MdF_I	C	G	T	G		A			[2320]			
#L1MdF_II	C	T	M					C	[2320]			
#L1MdF_III	C	T	C					Y	[2320]			
#L1MdN_I		T							[2320]			
#L1MdA_VII		W	T	M					[2320]			
#L1MdMus_I	C	G	T	CG				T	CD	[2320]		
#L1MdFanc_I	C	G	T	CT				C	[2320]			
#L1MdV_I	C	T	C					NC	[2320]			
#L1MdFanc_II	C	T	C				H	C	[2320]			
#L1MdMus_II	C	T	C	R				C	[2320]			
#L1MdV_II	H	V	T	C	R	D		C	[2320]			
#L1Lx_I	C	T	C					C	[2320]			
#L1Lx_III	C	G	T	C	A	A		C	[2320]			
#L1Lx_II	N	D	T	R	C	A	N	AN	D	H	DC	[2320]
#L1Lx_IV	Y	G	T	C	A	AB		H	H	[2320]		
#L1MdV_III	C	G	T	C	A	A		C	[2320]			

#L1MdA_I	ATCAACCAAG	TGGAACAAG	AAGAACTATT	CAAAGAATTA	ACCAAACGAG	GAGTTGGTTC	TTTGAGAAAA	TCAACAAGAT	[2400]					
#L1MdA_II									[2400]					
#L1MdA_III									[2400]					
#L1MdA_IV									[2400]					
#L1MdGf_I	T								[2400]					
#L1MdGf_II							R		[2400]					
#L1MdTf_I									[2400]					
#L1MdTf_II									[2400]					
#L1MdTf_III									[2400]					
#L1MdA_V									[2400]					
#L1MdA_VI					C	C			[2400]					
#L1MdF_V					C	C			[2400]					
#L1MdF_IV					C				[2400]					
#L1MdF_I					H	W	D	Y	[2400]					
#L1MdF_II					G	C	T	C	[2400]					
#L1MdF_III					C	T	C		[2400]					
#L1MdN_I									[2400]					
#L1MdA_VII									[2400]					
#L1MdMus_I		A			C	C	C		[2400]					
#L1MdFanc_I		A			C	C	C		[2400]					
#L1MdV_I		A			C	C	C		[2400]					
#L1MdFanc_II		A	W		C	C	C		[2400]					
#L1MdMus_II		A	W		C	C	C		[2400]					
#L1MdV_II		D	A	A	C	C	Y		[2400]					
#L1Lx_I		A	A	A	C	YC	C		[2400]					
#L1Lx_III		A	A	A	C	A	C	C	[2400]					
#L1Lx_II	R	A	A	D	N	A	N	C	HN	HC	NC	N	D	[2400]
#L1Lx_IV		A	A	A	A	C	C	C		[2400]				
#L1MdV_III		A	A	A	A	C	A	C	C		[2400]			

#L1MdA_I	AGATAAACCC	TTAGCTAGAC	TCACTAAAGG	GCACAGGGAC	AAAATCCTAA	TTAACAAAAT	CAGAAATGAA	AAGGGAGACA	[2480]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[2480]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[2480]
#L1MdA_IV	.....	.....	.....G.....	.....	.....	.....	.....	.....	[2480]
#L1MdGf_I	.....	.....	.....G.....	.....A.....	.....	.....C.....	.....	.....	[2480]
#L1MdGf_II	.....	.....	.....R.....	.....	.....	.....	.....	.....	[2480]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....	[2480]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....	[2480]
#L1MdTf_III	.....	.....	.....G.....	.....A.....	.....	.....	.....C.....	.....	[2480]
#L1MdA_V	.....	.....	.....G.....	.....	.....	.....	.....	.....	[2480]
#L1MdA_VI	.....	.....C.....	.....G.....	.....	.....	.....	.....	.....	[2480]
#L1MdF_V	.....	.....C.....	.....G.....	.....	.....	.....GC.....	.....	.....	[2480]
#L1MdF_IV	.....	.....C.....	.....G.....	.....	.....	.....GC.....	.....	.....	[2480]
#L1MdF_I	.....	.....Y.....	.....G.....	.....M.....	.....RM.....	.....	.....	.....	[2480]
#L1MdF_II	.....C.....	.....C.....	.....G.....	.....A.....	.....GC.....	.....T.....	.....	.....	[2480]
#L1MdF_III	.....	.....C.....	.....G.....	.....A.....	.....GC.....	.....Y.....	.....	.....	[2480]
#L1MdN_I	.....	.....	.....G.....	.....	.....	.....C.....	.....	.....	[2480]
#L1MdA_VII	.....	.....	.....G.....	.....	.....	.....GC.....	.....	.....	[2480]
#L1MdMus_I	.....	.....C.....	.....A.....G.....	.....	.....	.....GT.....	.....A.....	.....	[2480]
#L1MdFanc_I	.....	.....C.....	.....A.....G.....	.....	.....	.....GT.....	.....A.....	.....A.....	[2480]
#L1MdV_I	.....	.....	.....C.....	.....G.....	.....	.....GC.....	.....	.....	[2480]
#L1MdFanc_II	.....	.....	.....C.....	.....A.....G.....	.....	.....GT.....	.....	.....	[2480]
#L1MdMus_II	.....	.....	.....C.....	.....M.....G.....	.....	.....GT.....	.....	.....	[2480]
#L1MdV_II	.....	H.....	.....C.....	.....A.....G.....	.....	.....GT.....	.....	.....	[2480]
#L1Lx_I	.....	.....	.....C.....	.....A.....G.....	.....	.....GT.....	.....Y.....	.....	[2480]
#L1Lx_III	.....	.....	.....C.....	.....A.....C.....G.....	.....AN.....	.....GT.....	.....A.....	.....Y.....	[2480]
#L1Lx_II	.....	B.....	.....C.....	.....Y.....A.....C.....G.....	.....A.....	.....GT.....	N.H.....	Y.....D.....	[2480]
#L1Lx_IV	.....	.....	.....C.....	.....A.....C.....G.....	.....A.....	.....GT.....	.....A.....	.....D.T.....	[2480]
#L1MdV_III	.....	.....	.....C.....	.....A.....C.....G.....	R.....	.....A.....	.....GT.....	.....A.....	[2480]

#L1MdA_I	TAACAACAGA	TCCTGAAGAA	ATCCAAAACA	CCATCAGATC	CTTCTACAAA	AGGCTATACT	CAACAAAACCT	GGAAAACCTG	[2560]	
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdA_III	.....	.....	.....	.....	.....	.....Y.....	.....	.....	[2560]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....CT.....	.....	[2560]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdA_V	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdA_VI	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdF_V	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdF_IV	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdF_I	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdF_II	.....	.....Y.....	.....	.....	.....	.....	.....G.....	.....	[2560]
#L1MdF_III	.....	.....	.....	.....	.....	.....	.....G.....	.....	[2560]
#L1MdN_I	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdA_VII	.....	.....	.....	.....	.....	.....	.....	.....	[2560]
#L1MdMus_I	.....	.....G.....	.....	.....T.....	.....	.....A.....	.....	.....	[2560]
#L1MdFanc_I	.....	A.....	.....G.....	.....	.....T.....	.....	.....A.....	.....A.....	[2560]
#L1MdV_I	.....	.....	.....D.....	.....	.....	.....	.....	.....	[2560]
#L1MdFanc_II	.....	A.....	.....G.....	.....	.....T.....	.....	.....A.....	.....	[2560]
#L1MdMus_II	.....	S.....	A.....	.....G.....	.....	.....T.....	.....	.....	[2560]
#L1MdV_II	.....	AH.....	.....G.....	.....	.....A.....	.....T.....	.....	.....N.....	[2560]
#L1Lx_I	.....	AT.....	.....G.....	.....	.....V.....	.....T.....	.....	.....S.....	[2560]
#L1Lx_III	AA.....G.....Y.....A.....C.....	M.....D.....T.....	[2560]
#L1Lx_II	N.....	N.....	AH.....NG.....NN.N.....	AD.....	T.....	A.....B.....CY.....Y.....Y.....	[2560]
#L1Lx_IV	H.....	AA.....G.....TA.....	AW.....	HA.....	A.....N.....Y.....M.....T.....	[2560]
#L1MdV_III	AA.....C.....TG.....TH.....A.....	T.....	AH.....TT.....T.....T.....	[2560]

#L1MdA_I	GACGAAATGG	ACAAATTTCT	GGACAGATAC	CAGGTACCAA	AGTTGAATCA	GGATCAAGTT	GACCATCTAA	ACAGTCCCAT	[2640]										
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[2640]		
#L1MdA_III	.....	.....	.....	.....	.....R.....	.....	.....	.....	[2640]		
#L1MdA_IV	.....	.....	.....	.....	.....A.....	.....	.....A.....	.....G.....	[2640]		
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....T.....	[2640]		
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[2640]		
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....T.....	[2640]		
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....T.....	[2640]		
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....T.....	[2640]		
#L1MdA_V	.....	.....	A.....	.....	.....	.....A.....	.....	A.....G.....	[2640]				
#L1MdA_VI	.....	.....	A.....	.....	.....	A.....Y.....	.....	A.....G.....	[2640]					
#L1MdF_V	.....	.....	A.....	.....	.....	A.....	.....	G.....A.....TG.....	[2640]					
#L1MdF_IV	.....	.....	A.....	.....	.....	A.....	.....	G.....A.....TG.....	[2640]					
#L1MdF_I	.....	.....	Y.....	.....	.....	.....	.....	.....YS.....	[2640]			
#L1MdF_II	G.....G.....	A.....	A.....	G.....A.....TG.....	C.....G.....	[2640]									
#L1MdF_III	T.....	G.....	A.....	A.....G.....	A.....TG.....	C.....T.....	[2640]								
#L1MdN_I	T.....	A.....	A.....G.....	[2640]								
#L1MdA_VII	A.....	A.....	A.....G.....	[2640]								
#L1MdMus_I	T.....	C.....	C.....	A.....	A.....	G.....	T.....	[2640]							
#L1MdFanc_I	T.....	C.....	C.....	A.....	A.....	G.....	A.....TG.....	[2640]							
#L1MdV_I	T.....	A.....	A.....	G.....	A.....TG.....	C.....	T.....	[2640]					
#L1MdFanc_II	T.....	T.....	Y.....	A.....	A.....	G.....	A.....TG.....	[2640]				
#L1MdMus_II	T.....	H.....	Y.....	A.....	A.....	G.....	A.....TG.....	C.....	N.....	[2640]		
#L1MdV_II	T.....	T.....	A.....	A.....	G.....	A.....	G.....	[2640]			
#L1Lx_I	T.....	T.....	A.....	A.....	G.....	A.....	G.....	[2640]			
#L1Lx_III	T.....	T.....	A.....	RR.....	A.....	GA.....	A.....G.....	[2640]		
#L1Lx_II	R.....	T.....	T.....	AD.....	V.....	R.....	A.....	GA.....	A.....G.....	[2640]	
#L1Lx_IV	T.....	D.....	T.....	AA.....	A.....	GA.....	A.....	[2640]	
#L1MdV_III	T.....	T.....	A.....	C.....	G.....	G.....	A.....	G.....N.....	[2640]

#L1MdA_I	ATCACCTAAA	GAAATAGAAG	CAGTTATTAA	TAGTCTCCCA	ACCAAAAAA	GCCCAGGACC	AGATGGGTTT	AGTGCAGAGT	[2720]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[2720]
#L1MdA_III	.....	.....	.....	.....	G.....	.....	.....C.....	.....	[2720]
#L1MdA_IV	..C.....	.....	.....	.....	G.....	.....	.....C.....	.....	[2720]
#L1MdGf_I	..C.....	.....	.....	.....	.....	.....	.....	.....	[2720]
#L1MdGf_II	.....	.....	.....C.....	.....	G.....	.....	.....C.....	.....	[2720]
#L1MdTf_I	..C.....	.....	.....	.....	G.....	.....	.....C.....	.....	[2720]
#L1MdTf_II	..C.....	.....	.....	.....	G.....	.....	.....C.....	.....	[2720]
#L1MdTf_III	..C.....	.....	.....A.....	.....	G.....	.....	.....C.....	.....	[2720]
#L1MdA_V	..C.....	.....	.....C.....	.....	G.....	.....	.....	.....	[2720]
#L1MdA_VI	..C.....	.....	.....C.....	.....	.....	.....	.....	.....	[2720]
#L1MdF_V	..C.....	.....	.....C.....	.....	.....	.....	.....	.....	[2720]
#L1MdF_IV	..C.....	.....	.....C.....	.....	.....	.....	.....	.....	[2720]
#L1MdF_I	..C.....	.....	.....	.....	G.....	.....	.....Y.....	.....	[2720]
#L1MdF_II	..C.C.....	.....	.....C.....	.....	.....	.....	.....	.....	[2720]
#L1MdF_III	..C.....	.....	.....C.....	.....	.....	.....	.....	.....	[2720]
#L1MdN_I	..C.....G.....	.....	.....C.....	.....	.....	.....	.....	.....	[2720]
#L1MdA_VII	..C.....	.....	.....C.....	.....	G.....	.....	.....	.....	[2720]
#L1MdMus_I	T.C.....	.....	.....C.....	.....	.....	.....	.....	.....	[2720]
#L1MdFanc_I	T.C.....	.....	.....C.C.....	.....	.....	.....	.....	.....	[2720]
#L1MdV_I	..C.....	.....	.....C.....	.....	.....	AA.....	.....	.....	[2720]
#L1MdFanc_II	..C.....	.....	.....C.....	.....	.....	D.....	.....	.....	[2720]
#L1MdMus_II	DN.CH.....	.....	GD.C.....	.....Y.....	.....	D.....	.....	.....	[2720]
#L1MdV_II	..C.....	.....A.....	.....C.....	.....	.....	N.....	.....Y.....	.....	[2720]
#L1Lx_I	..C.....	.....	.....A.....	.....C.....	.....	.....	.....	.....	[2720]
#L1Lx_III	.W.C.Y.....	.....	D.....C.....	.....H.....	.....	H.....	.....N.....	.....N.....D.....	.....R.....
#L1Lx_II	.A.C.....	.....	R.B.V.C.....	.....	.....	H.....	.....N.....	.....H.....	.....V.....
#L1Lx_IV	.D.C.....	.....	R.....C.Y.....	.....A.....	.....BY.....	H.....	.....	.....	.....A.....
#L1MdV_III	.A.C.....	.....	.....C.....	.....	.....	.....	.....	.....	.....G.....A.....

#L1MdA_I	TCTATCAGAC	CTTCAAAGAA	GATCTAATTC	CAATTCTGCA	CAAACATTT	CACAAAATAG	AAGTAGAAGG	TACTCTACCC	[2800]
#L1MdA_II	.....	.....	.....	.....G.....	.....	.....	.....	.....	[2800]
#L1MdA_III	.....	.....	.....	.....G.....	.....	.....	.....	.....	[2800]
#L1MdA_IV	.....	.....	.....	.....G.....	.....	.....	.....	.....	[2800]
#L1MdGf_I	.....	.....	.....	.....G.....	.....	.....	.....G.....	.....	[2800]
#L1MdGf_II	.....	.....	.....	.....G.....	.....	.....	.....	.....	[2800]
#L1MdTf_I	.....	.....	.....C.....	.....G.....	.....T.....	.....G.....	.....	.....T.....	[2800]
#L1MdTf_II	.....	.....	.....C.....	.....G.....	.....T.....	.....G.....	.....	.....T.....	[2800]
#L1MdTf_III	.....	.....	.....	.....G.....	.....T.....	.....G.....	.....	.....A.....	[2800]
#L1MdA_V	..C.....	.....	.....C.....	.....G.....	.....C.....	.....	.....G.....	.....A.....	[2800]
#L1MdA_VI	.....	.....	.....	.....G.....	.....C.....	.....	.....	.....	[2800]
#L1MdF_V	.....	.....	.....G.....	.....T.....	.....C.....	.....	.....C.....	.....	[2800]
#L1MdF_IV	.....	.....	.....G.....	.....T.....	.....C.....	.....	.....C.....	.....	[2800]
#L1MdF_I	.....	.....	.....C.....	.....G.....	.....T.....	.....C.....	.....	.....AYR.....	[2800]
#L1MdF_II	.....	.....	.....C.....	.....G.....	.....T.....	.....C.....	.....	.....AC.....	[2800]
#L1MdF_III	.....	.....	.....C.....	.....G.....	.....T.....	.....C.....	.....	.....AC.....	[2800]
#L1MdN_I	..C.....	.....	.....C.....	.....G.....	.....C.....	.....	.....	.....G.....	.....A.....
#L1MdA_VII	.....	.....	.....	.....G.....	.....C.....	.....	.....	.....	[2800]
#L1MdMus_I	.....	.....	.....C.....	.....C.....	.....C.....	.....	.....	.....AC.....	[2800]
#L1MdFanc_I	.....	.....	.....C.....	.....C.....	.....Y.T.....	.....C.....	.....	.....AC.....	[2800]
#L1MdV_I	.....	.....	H.....	.....G.....	.....T.T.....	.....C.....	.....	.....AC.....	[2800]
#L1MdFanc_II	.....	.....	.....C.....	.....	.....C.....	.....	.....	.....AC.....	[2800]
#L1MdMus_II	..V.....	.....	N.C.....	.....	.....C.T.....	.....C.....	.....	.....AC.....	.....H.....
#L1MdV_II	.....Y.....	.....R.....	..C.....	.....	.....W.C.T.....	.....C.....	.....	.....AC.....	[2800]
#L1Lx_I	.....	.....	.....C.....	.....	.....W.C.T.....	.....C.....	.....	.....AC.....	[2800]
#L1Lx_III	.....	.....	.....C.....	.....AN.....	.....A.CHT.....	.....C.....	.....	.....AC.....	.....A.H.....
#L1Lx_II	..N.....	.....	.....C.....	.....	.....A.CTT.....	YG..HN.....	.....C.....	.....AC.....	.....A.YA..B.....
#L1Lx_IV	.....	.....	.....C.....	.....	.....A.CTT.....	.....C.....	.....	.....AC.....	.....A.A.....
#L1MdV_III	.....T.....	.....	.....C.....	.....	.....A.CTT.....	.....C.....	.....	.....AC.....	.....D.A.....

#L1MdA_I	AACTCATTTT	ATGAAGCCAC	TATTACTCTG	ATACCTAAAC	CACAGAAAGA	TCCAACAAAG	ATAGAGAACT	TCAGACCAAT	[2880]
#L1MdA_II	.....	.....	.....	.....	.....	C.....	.....	.....	[2880]
#L1MdA_III	.....	.....	.....	.....	.....	C.....	.....	.....	[2880]
#L1MdA_IV	.....	.....	A.....	.....	.....	.....	.....	.....	[2880]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....	[2880]
#L1MdGf_II	.....	.....	.....	.....	.....	C.....	.....	.....	[2880]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....	[2880]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....	[2880]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....	[2880]
#L1MdA_V	.....C.....	.....	A.....	.....	.....	.....	.....	.....	[2880]
#L1MdA_VI	.....C.....	.....	A.....	.....	.....	.....	.....	.....	[2880]
#L1MdF_V	..T.....C.....	.....	A.....	.....	.....	C.....	.....	.....	[2880]
#L1MdF_IV	..Y.....C.....	.....	A.....	.....	.....	C.....	.....	.....	[2880]
#L1MdF_I	.....C.....	.....	A.....	.....	.....	A.....	C.....	.....	[2880]
#L1MdF_II	.....C.....	.....	A.....	.....	.....	A.....	C.C.....	.....	[2880]
#L1MdF_III	.....C.....	.....	A.....	.....	.....	A.....	C.....	.....	[2880]
#L1MdN_I	.....C.....	.....	A.....	.....	.....	.....	.....	.....	[2880]
#L1MdA_VII	.....C.....	.....	A.....	.....	.....	.....	.....	.....	[2880]
#L1MdMus_I	..T.....C.....	.....	A.....	.....	.....	C.....	.....	A.....	[2880]
#L1MdFanc_I	..T.....C.....	.....	A.....	.....	.....	C.....	.....	A.....	[2880]
#L1MdV_I	..T.....C.....	.....	A.....	.....	.....	T.....	C.....	.....	[2880]
#L1MdFanc_II	..T.....C.....	.....	A.....	.....	.....	T.....	C.....	A.....	[2880]
#L1MdMus_II	..T.....C.....	.....	A.....	.....	.....	T.D.N.....	.....	W.....H.....	[2880]
#L1MdV_II	..T.G.C.....	.....	A.....	.....	.....	C.....	C.....	A.....	[2880]
#L1Lx_I	..T.G.C.....	.....	A.....	.....	.....	C.....	C.....	A.....	[2880]
#L1Lx_III	..T.....C.....	.....	A.....	.....G.....	.....D..B.....	C.....	C.....	V.....	A.....
#L1Lx_II	..T.G.C.....	.....	A.....	.....	.....	C.....	CN.....	A.....	[2880]
#L1Lx_IV	..T.G.C.....	.....	A.....	.....	.....G.....	A.....	.....	A.....	[2880]
#L1MdV_III	..T.G.C.....	.....	A.....	.....	.....G.T.....	.....	C.A.....	A.....	[2880]

#L1MdA_I	TTCTCTATG	AATATCGATG	CAAAAATCCT	CAATAAAATT	CTCGCTAACC	GAATCCAAGA	ACACATTAAA	GCAATCATCC	[2960]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[2960]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[2960]
#L1MdA_IV	.....	.....	.....M.	.....	.....	.....	.....	.....	[2960]
#L1MdGf_I	.....	.....	.....	.....T	.....	.....	.....	.....A	[2960]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[2960]
#L1MdTf_I	.....	.....C	.....	.....	.....T	.....	.....	.....	[2960]
#L1MdTf_II	.....	.....C	.....	.....T	.....T	.....	.....	.....	[2960]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....	[2960]
#L1MdA_V	.....C	.....	.....	.....	.....	.....	.....	.....	[2960]
#L1MdA_VI	.....C	.....	.....A	.....	.....	.....W	.....	.....A	[2960]
#L1MdF_V	.....C	.....	.....M	.....	.....	.....Y	.....	.....C	[2960]
#L1MdF_IV	.....C	.....	.....A	.....	.....	.....	.....	.....C	[2960]
#L1MdF_I	.....C	.....	.....	.....	.....G	.....	.....	.....C	[2960]
#L1MdF_II	A	.....C	.....	.....	.....T	.....G	.....	.....T	[2960]
#L1MdF_III	.....C	.....	.....	.....	.....G	.....	.....	.....C	[2960]
#L1MdN_I	.....C	.....	.....	.....	.....	.....	.....	.....T	[2960]
#L1MdA_VII	.....C	.....	.....A	.....	.....	.....	.....	.....	[2960]
#L1MdMus_I	.....C	.....	.....A	.....	.....C	.....	.....A	.....C	[2960]
#L1MdFanc_I	.....C	.....	.....A	.....	.....C	.....	.....A	.....C	[2960]
#L1MdV_I	.....C	.....	.....A	.....	.....	.....	.....	.....C	[2960]
#L1MdFanc_II	.....C	.....	.....Y	.....	.....A	.....	.....	.....C	[2960]
#L1MdMus_II	.....C	.....	.....A	.....	.....	.....V	.....	.....C	[2960]
#L1MdV_II	.....C	.....	.....A	.....	.....	.....	.....	.....C	[2960]
#L1Lx_I	.....C	.....	.....A	.....	.....	.....	.....	.....C	[2960]
#L1Lx_III	.....C	.....	.....A	.....	.....	.....B	.....H	.....	[2960]
#L1Lx_II	.....C	.....	.....HA	.....	.....	.....BA	.....A	.....V	[2960]
#L1Lx_IV	.....C	.....	.....T	.....	.....A	.....	.....TD	.....A	[2960]
#L1MdV_III	C	.....C	.....T	.....	.....A	.....	.....	.....T	[2960]

#L1MdA_I	ATCCTGACCA	AGTAGGTTTT	ATTCCAGGGA	TGCAGGGATG	GTTTAAATATA	CGAAAATCCA	TCAATGTAAT	CCATTATATA	[3040]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdA_III	.....	.....	.....V	.....	.....	.....	.....	.....	[3040]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdTf_III	.....	.....	.....R	.....	.....	.....	.....	.....C	[3040]
#L1MdA_V	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdA_VI	.....	.....	.....	.....	.....	.....G	.....	.....C	[3040]
#L1MdF_V	.....C	.....	.....	.....	.....	.....G	.....	.....C	[3040]
#L1MdF_IV	.....C	.....	.....	.....	.....	.....G	.....	.....C	[3040]
#L1MdF_I	.....C	.....	.....C	.....	.....	.....Y	.....	.....G	[3040]
#L1MdF_II	.....C	.....	.....C	.....	.....	.....C	.....	.....G	[3040]
#L1MdF_III	.....C	.....	.....C	.....	.....	.....C	.....	.....G	[3040]
#L1MdN_I	.....	.....	.....	.....	.....	.....	.....	.....	[3040]
#L1MdA_VII	.....	.....	.....	.....	.....	.....G	.....	.....C	[3040]
#L1MdMus_I	.....A	.....	.....C	.....C	.....	.....G	.....	.....C	[3040]
#L1MdFanc_I	.....A	.....	.....C	.....C	.....	.....T	.....G	.....C	[3040]
#L1MdV_I	.....A	.....	.....Y	.....C	.....	.....B	.....	.....G	[3040]
#L1MdFanc_II	.....A	.....	.....T	.....C	.....C	.....	.....G	.....C	[3040]
#L1MdMus_II	.....A	.....	.....T	.....C	.....C	.....	.....G	.....C	[3040]
#L1MdV_II	.....A	.....	.....T	.....C	.....C	.....	.....R	.....	[3040]
#L1Lx_I	.....A	.....	.....T	.....C	.....C	.....	.....	.....G	[3040]
#L1Lx_III	H	.....A	.....T	.....C	.....C	.....	.....	.....G	[3040]
#L1Lx_II	.....C	.....	.....A	.....	.....	.....	.....VC	.....C	[3040]
#L1Lx_IV	.....C	.....	.....A	.....	.....	.....	.....	.....G	[3040]
#L1MdV_III	.....C	.....	.....AC	.....	.....T	.....	.....	.....G	[3040]

#L1MdA_I	AACAACTCA	AAGACAAAA	CCACATGATC	ATCTCGTTAG	ATGCAGAAAA	AGCATTGAC	AAGATCCAAC	ACCCATTCAT	[3120]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3120]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....Y	.....	[3120]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[3120]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3120]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3120]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3120]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3120]
#L1MdTf_III	.....	.....	.....	.....R	.....	.....	.....	.....	[3120]
#L1MdA_V	.....	.....	.....	.....	.....G	.....	.....C	.....	[3120]
#L1MdA_VI	.....	.....	.....	.....	.....G	.....G	.....	.....A	[3120]
#L1MdF_V	.....	.....	.....	.....	.....G	.....G	.....	.....A	[3120]
#L1MdF_IV	.....	.....	.....	.....	.....G	.....G	.....	.....A	[3120]
#L1MdF_I	.....	.....	.....	.....	.....T	.....G	.....	.....A	[3120]
#L1MdF_II	.....	.....	.....	.....	.....T	.....G	.....	.....A	[3120]
#L1MdF_III	.....	.....	.....	.....	.....T	.....G	.....	.....A	[3120]
#L1MdN_I	.....	.....	.....	.....	.....G	.....	.....	.....C	[3120]
#L1MdA_VII	.....	.....	.....	.....	.....G	.....R	.....	.....	[3120]
#L1MdMus_I	.....	.....	.....T	.....	.....T	.....G	.....	.....A	[3120]
#L1MdFanc_I	.....	.....	.....	.....	.....T	.....G	.....	.....A	[3120]
#L1MdV_I	.....	.....	.....	.....	.....T	.....G	.....	.....A	[3120]
#L1MdFanc_II	.....	.....	.....	.....	.....T	.....G	.....	.....A	[3120]
#L1MdMus_II	.....	.....	.....	.....	.....T	.....G	.....	.....A	[3120]
#L1MdV_II	.....	.....	.....H	.....	.....T	.....G	.....	.....AR	[3120]
#L1Lx_I	.....	.....R	.....M	.....	.....B	.....	.....H	.....A	[3120]
#L1Lx_III	.....	.....A	.....H	.....Y	.....	.....T	.....A	.....N	[3120]
#L1Lx_II	.....N	.....	.....RA	.....N	.....	.....B	.....H	.....Y	[3120]
#L1Lx_IV	.....	.....	.....A	.....	.....T	.....A	.....	.....	[3120]
#L1MdV_III	.....	.....	.....A	.....	.....T	.....A	.....	.....	[3120]

#L1MdA_I	GATAAAGT	TTGGAAAGAT	CAGGAATTCA	AGGCCCATAC	CTAAACATGA	TAAAGCAAT	CTACAGCAA	CCAGTAGCCA	[3200]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdA_IV	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdGf_I	.....	.....	.....	.....	.....A	.....	.....	.....	[3200]
#L1MdGf_II	.....G	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdTf_I	.....C	.....	.....A	.....	.....	.....	.....	.....	[3200]
#L1MdTf_II	.....C	.....	.....A	.....	.....	.....	.....	.....	[3200]
#L1MdTf_III	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdA_V	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdA_VI	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdF_V	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdF_IV	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdF_I	.....C	.....	.....	.....	.....	.....	.....A	.....	[3200]
#L1MdF_II	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdF_III	.....C	.....	.....	.....	.....M	.....	.....	.....	[3200]
#L1MdN_I	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdA_VII	.....C	.....	.....	.....	.....	.....	.....	.....	[3200]
#L1MdMus_I	.....CA	.....	.....	.....	.....A	.....	.....A	.....	[3200]
#L1MdFanc_I	.....C	.....	.....	.....	.....A	.....	.....V	.....	[3200]
#L1MdV_I	.....C	.....	.....	.....	.....A	.....	.....	.....	[3200]
#L1MdFanc_II	.....C	.....	.....	.....	.....A	.....	.....A	.....	[3200]
#L1MdMus_II	.....C	.....	.....	.....	.....A	.....	.....H	.....	[3200]
#L1MdV_II	.....C	.....	.....V	.....	.....V	.....A	.....A	.....	[3200]
#L1Lx_I	.....C	.....	.....	.....	.....A	.....	.....A	.....	[3200]
#L1Lx_III	.W.....C	.....	.....	.....	.....AG	.....	.....A	.....	[3200]
#L1Lx_II	.....C	.....	.....	.....	.....AG	.....	.....V	.....	[3200]
#L1Lx_IV	.T.....C	.....	.....	.....	.....AG	.....	.....A	.....	[3200]
#L1MdV_III	.T.....C	.....	.....	.....	.....AG	.....	.....A	.....	[3200]

#L1MdA_I	ACATCAAAGT	AAATGGAGAG	AAGCTGGAAG	CAATCCCCT	AAAATCAGGG	ACTAGACAAG	GCTGCCCACT	TTCTCCCTAC	[3280]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdA_V	.....T	.....T	.....	.....	.....	.....	.....	.....	[3280]
#L1MdA_VI	.....T	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdF_V	.....T	.....	.....W	.....	.....	.....	.....	.....	[3280]
#L1MdF_IV	.....T	.....	.....	.....	.....	.....	.....Y	.....	[3280]
#L1MdF_I	.....T	.....	.....	.....	.....	.....	.....T	.....CG	[3280]
#L1MdF_II	G.....T	.....T	.....	.....	.....	.....	.....T	.....C	[3280]
#L1MdF_III	.....T	.....	.....	.....	.....	.....	.....T	.....C	[3280]
#L1MdN_I	.....T	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdA_VII	.....T	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdMus_I	.....N	.....	.....C	.....	.....	.....	.....	.....	[3280]
#L1MdFanc_I	.....C	.....	.....A	.....C	.....	.....	.....	.....	[3280]
#L1MdV_I	.....	.....	.....	.....	.....	.....	.....	.....	[3280]
#L1MdFanc_II	.....C	.....	.....A	.....T	.....	.....	.....	.....	[3280]
#L1MdMus_II	.....S	.....	.....R	.....NR	.....	.....	.....	.....H	[3280]
#L1MdV_II	.....C	.....W	.....A	.....B	.....	.....	.....H	.....H	[3280]
#L1Lx_I	.....C	.....	.....A	.....T	.....	.....	.....	.....Y	[3280]
#L1Lx_III	.....C	.....	.....A	.....T	.....	.....H	.....N	.....W	[3280]
#L1Lx_II	.....C	.....	.....A	.....T	.....V	.....B	.....NNY	.....C	[3280]
#L1Lx_IV	.....C	.....	.....A	.....T	.....	.....	.....D	.....C	[3280]
#L1MdV_III	.....C	.....V	.....A	.....T	.....	.....	.....	.....C	[3280]

#L1MdA_I	CTTTTCAACA	TAGTACTTGA	AGTATTAGCC	AGAGCAATTC	GACAACAAA	GGAGATCAAG	GGGATACAAA	TTGGAAAAGA	[3360]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3360]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[3360]
#L1MdA_IV	.Y.....	.....	.....V	.....	.....	.....	.....	.....	[3360]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3360]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3360]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....	[3360]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3360]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....G	[3360]
#L1MdA_V	.C.....	.....	.....CC	.....	.....	.....	.....	.....	[3360]
#L1MdA_VI	.A.....	.....T	.....CC	.....	.....	.....	.....	.....	[3360]
#L1MdF_V	.A.....	.....W	.....CC	.....	.....	.....	.....	.....G	[3360]
#L1MdF_IV	.A.....	.....T	.....CC	.....	.....	.....	.....	.....G	[3360]
#L1MdF_I	.A.....	.....T	.....CC	.....	.....A	.....	.....	.....G	[3360]
#L1MdF_II	.A.....	.....T	.....CC	.....	.....A	.....	.....	.....G	[3360]
#L1MdF_III	.A.....	.....T	.....CC	.....	.....A	.....	.....	.....G	[3360]
#L1MdN_I	.C.....	.....	.....CC	.....	.....	.....	.....	.....	[3360]
#L1MdA_VII	.H.....	.....	.....CC	.....	.....	.....	.....	.....	[3360]
#L1MdMus_I	.A.....	.....T	.....CC	.....	.....	.....	.....	.....G	[3360]
#L1MdFanc_I	.A.....	.....T	.....HC	.....	.....	.....B	.....	.....G	[3360]
#L1MdV_I	.A.....	.....T	.....CC	.....	.....	.....R	.....	.....G	[3360]
#L1MdFanc_II	.A.....	.....T	.....CC	.....	.....A	.....	.....	.....G	[3360]
#L1MdMus_II	.A.....	.....T	.....D	.....CC	.....A	.....G	.....D	.....G	[3360]
#L1MdV_II	.A.....	.....T	.....CC	.....	.....A	.....	.....D	.....R	[3360]
#L1Lx_I	.A.....	.....T	.....CC	.....	.....A	.....	.....A	.....G	[3360]
#L1Lx_III	.A.....	.....T	.....TC	.....H	.....HA	.....G	.....A	.....N	[3360]
#L1Lx_II	.R.....	.....T	.....C	.....D	.....CC	.....A	.....G	.....A	[3360]
#L1Lx_IV	.A.....	.....T	.....TC	.....T	.....A	.....G	.....V	.....G	[3360]
#L1MdV_III	.A.....	.....T	.....TC	.....T	.....R	.....A	.....G	.....A	[3360]

#L1MdA_I	GGAAGTCAAA	ATATCACCTT	TTGCAGATGA	TATGATAGTA	TATATAAGTG	ACCCTAAAAA	TTCTACCAGA	GAACTCCTAA	[3440]	
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3440]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[3440]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3440]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....C.A.....	.....	[3440]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....C.A.....	.....	[3440]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdA_V	D.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdA_VI	A.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdF_V	A.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdF_IV	A.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdF_I	A.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdF_II	A.....	W.....	.....	.....	.....	.....C.....	.....C.....	.....	[3440]
#L1MdF_III	A.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdN_I	D.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdA_VII	T.....	.....	.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdMus_I	A.....	.....	D.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdFanc_I	A.....	.....	A.....	.....	.....	.....	.....H.....	.....C.....	[3440]
#L1MdV_I	A.....	.....	A.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdFanc_II	A.....	.....	A.....	.....	.....	.....	.....C.....	.....	[3440]
#L1MdMus_II	A.....	.....	A.....	.....	.....	.....	.....V.....	.....C.....	[3440]
#L1MdV_II	A.....	.....	A.....	.....	.....	.....	.....Y.....	.....C.....	[3440]
#L1Lx_I	A.....	.....	A.....	.....	.....	.....	.....B.....	.....Y.....	[3440]
#L1Lx_III	A.....	R.....	A.....	V.....HT.....	R.....Y.....	H.....	[3440]
#L1Lx_II	A.....	A.....	R.....YD.....CM.....H.....	[3440]
#L1Lx_IV	A.....	A.....CT.....C.....C.....	[3440]
#L1MdV_III	A.....	A.....	C.....CT.....C.....C.....	[3440]

#L1MdA_I	ACCTGATAAA	CAGCTTCGGT	GAAGTAGCTG	GATATAAAAT	AAACTCAAAC	AAGTCAATGG	CCTTTCCTA	TACAAAGAAT	[3520]												
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3520]				
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[3520]				
#L1MdA_IV	.....	.....	.....	.....	T.....	.....	.....	.....C.....	[3520]					
#L1MdGf_I	.....	.....	T.....	.....	T.....	.....	.....	.....C.....	[3520]						
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3520]				
#L1MdTf_I	.....	.....	.....	.....	T.....	.....	.....	.....C.....	[3520]					
#L1MdTf_II	.....	.....	.....	.....	T.....	.....	.....	.....C.....	[3520]					
#L1MdTf_III	.....	.....	.....	.....	T.....	.....	.....	.....C.....	[3520]					
#L1MdA_V	.....	.....	.....	.....	T.....	.....	.....	.....C.....	[3520]					
#L1MdA_VI	.....	.....	.....	.....	T.....	.....	.....	.....C.....	[3520]					
#L1MdF_V	A.....	T.....N.....	C.....G.....	[3520]											
#L1MdF_IV	A.....	T.....C.....G.....	[3520]											
#L1MdF_I	G.....	AR.....	W.....G.....V.....	[3520]											
#L1MdF_II	G.....	A.....	T.....C.....G.....	[3520]											
#L1MdF_III	G.....	AA.....	T.....G.....C.....	[3520]											
#L1MdN_I	T.....C.....	[3520]											
#L1MdA_VII	T.....C.....	[3520]											
#L1MdMus_I	A.....	C.....	T.....	A.....	G.....C.....	G.....	[3520]										
#L1MdFanc_I	A.....	C.....	T.....	A.....C.....	G.....	[3520]										
#L1MdV_I	A.....	H.....	T.....	R.....C.....	G.....	[3520]										
#L1MdFanc_II	A.....	H.....	T.....	A.....	G.....C.....	G.....	[3520]										
#L1MdMus_II	A.....	T.....	A.....	G.....Y.....C.....	G.....	[3520]									
#L1MdV_II	A.....	A.....	H.....	T.....	A.....	G.....C.....	G.....	[3520]									
#L1Lx_I	A.....	A.....	T.....	A.....	G.....C.....	G.....	[3520]									
#L1Lx_III	V.....	A.....	A.....	C.....	A.....	R.....	A.....	H.....	G.....	R.....	C.....	V.....	CT.....	G.....	[3520]				
#L1Lx_II	B.....	N.....	A.....	NA.....	Y.....	A.....	G.....	T.....	A.....	D.....	C.....	CW.....	G.....	[3520]				
#L1Lx_IV	G.....	A.....	A.....	C.....	A.....	D.....	G.....	C.....	T.....	A.....	G.....	A.....	C.....	A.....	CT.....	G.....	[3520]	
#L1MdV_III	G.....	A.....	A.....	C.....	A.....	G.....	T.....	A.....	G.....	A.....	C.....	Y.....	CT.....	G.....	B.....	[3520]

#L1MdA_I	AAACAGGCTG	AGAAAGAAAT	TAGGGAAACA	ACACCCCTTCT	CAATAGTCAC	AAATAATATA	AAATATCTTG	GCGTGACTCT	[3600]							
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[3600]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[3600]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[3600]
#L1MdGf_I	.....	.....	.....	.....	S.....	.....	.....	.....C.....	[3600]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[3600]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....	.....C.....	[3600]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....	.....C.....	[3600]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....C.....	[3600]
#L1MdA_V	.....	.....	.....	.....	.....	.....	.....	.....	[3600]
#L1MdA_VI	.....	.....	.....	.....	.....	.....	.....	.....C.....	[3600]
#L1MdF_V	.....	.....	.....	.....	.....	.....	.....	.....C.....	[3600]
#L1MdF_IV	R.....C.....	D.....	[3600]						
#L1MdF_I	.....	.....	.....	.....	.....	.....	.....	.....C.....	[3600]
#L1MdF_IIC.....	A.....	[3600]						
#L1MdF_III	.....	.....	.....	.....	.....	.....	.....	.....C.....	[3600]
#L1MdN_I	.....	.....	.....	.....	.....	.....	.....	.....	[3600]
#L1MdA_VII	.....	.....	.....	.....	.....	.....	.....	.....	[3600]
#L1MdMus_I	A.....	A.....C.....	T.....	[3600]						
#L1MdFanc_I	G.....	A.....	A.....C.....	T.....	[3600]						
#L1MdV_IC.....	T.....	[3600]						
#L1MdFanc_IIC.....	T.....	[3600]						
#L1MdMus_IIC.....	KT.....	[3600]						
#L1MdV_II	H.....	A.....	M.....C.....	T.....	B.....	[3600]				
#L1Lx_I	N.....	A.....	H.....C.....	T.....	[3600]					
#L1Lx_III	G.....	A.....	N.....	N.....	B.....	N.....	T.....	[3600]		
#L1Lx_II	D.....	R.....Y.....	T.....	[3600]		
#L1Lx_IV	G.....C.....	T.....	[3600]		
#L1MdV_III	G.....	N.....	T.....	C.....	C.....	T.....	[3600]

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#L1MdA_I      AACTAAGGAG GTGAAAGATC TGTATGATAA AACTTTCAAA TCTCTGAAGA AAGAAATTA AAGAAGATCTC AGAAGATGGA [3680]
#L1MdA_II     .....A .....R..... [3680]
#L1MdA_III    ..... [3680]
#L1MdA_IV     .....G [3680]
#L1MdGf_I     .....A..A.....G [3680]
#L1MdGf_II    .....A.....A.....G [3680]
#L1MdTf_I     ..G....A.....G..C..... [3680]
#L1MdTf_II    ..G....A.....G..C..... [3680]
#L1MdTf_III   .....A.....G..... [3680]
#L1MdA_V      .....A.....G..C..... [3680]
#L1MdA_VI     .....A.....G..... [3680]
#L1MdF_V      .....A.....G..... [3680]
#L1MdF_IV     .....A.....G..... [3680]
#L1MdF_I      .....A.....G.....A..... [3680]
#L1MdF_II     .....A.....C..G.....WG..... [3680]
#L1MdF_III    .....A.....G..... [3680]
#L1MdN_I      .....A.....G..C..... [3680]
#L1MdA_VII    .....A.....G..... [3680]
#L1MdMus_I    .....A.....C..G.....G.....D..... [3680]
#L1MdFanc_I   .....A.....G.....G..... [3680]
#L1MdV_I      .....A.....G.....C..... [3680]
#L1MdFanc_II  .....A.....G.....CG..... [3680]
#L1MdMus_II   .....R.A.....K.....G.....CG.....N..... [3680]
#L1MdV_II     .....S.A.....G.....CG..... [3680]
#L1Lx_I       .....S.A.....G.....CG..... [3680]
#L1Lx_III    ..N..RV.A.....V...C..G.....CG.....H...D..... [3680]
#L1Lx_II     .....C.A..V..D...H..G..H...G.....CG...D..... [3680]
#L1Lx_IV     ..C..AC.A.....C..G.....CG.....C..... [3680]
#L1MdV_III   ..C..C.C.A.....D...Y..G.....C..... [3680]

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#L1MdA_I      AAGATCTCCC ATGCTCATGG ATTGGCAGGA TCAACATTGT AAAAAATGGCT ATCTTGCCAA AAGCAATCTA CAGATTCAAT [3760]
#L1MdA_II     ..... [3760]
#L1MdA_III    ..... [3760]
#L1MdA_IV     ..... [3760]
#L1MdGf_I     ..... [3760]
#L1MdGf_II    ..... [3760]
#L1MdTf_I     .....C..... [3760]
#L1MdTf_II    .....C..... [3760]
#L1MdTf_III   .....Y..... [3760]
#L1MdA_V      ..... [3760]
#L1MdA_VI     ..... [3760]
#L1MdF_V      .....T..A..... [3760]
#L1MdF_IV     .....T..A..... [3760]
#L1MdF_I      .....Y..... [3760]
#L1MdF_II     .....C.....T..A..... [3760]
#L1MdF_III    .....Y..W..... [3760]
#L1MdN_I      ..... [3760]
#L1MdA_VII    ..... [3760]
#L1MdMus_I    .....T..T..A.....C..G..... [3760]
#L1MdFanc_I   .....T..T..A..H.....C..G..... [3760]
#L1MdV_I      .....T..T..A.....G..... [3760]
#L1MdFanc_II  .....T..T..A.....G.....Y..... [3760]
#L1MdMus_II   ..N.....Y..T..H.....G..... [3760]
#L1MdV_II     .....T..T..A..M.....G..... [3760]
#L1Lx_I       .....T..T..A.....G..... [3760]
#L1Lx_III    .....H.....T..T..A.....N..C.....G..... [3760]
#L1Lx_II     .....Y.....T..T..A.....C.....G..... [3760]
#L1Lx_IV     .....H.....T..T..A.....C.....TG..... [3760]
#L1MdV_III   .....T..T..A.....C.....G..... [3760]

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#L1MdA_I      GCAATCCCCA TCAAATTC AACTCAATTC TTCAACGAAT TGGAAGGAGC AATTGCAAA TTTGTCTGGA ATAACAAAAA [3840]
#L1MdA_II     ..... [3840]
#L1MdA_III    .....A.....CA..... [3840]
#L1MdA_IV     .....A..R.....C.....CA..... [3840]
#L1MdGf_I     .....A.....CA..... [3840]
#L1MdGf_II    .....A.....CA..... [3840]
#L1MdTf_I     .....T.....A.....CA..... [3840]
#L1MdTf_II    ..T.....A.....CA..... [3840]
#L1MdTf_III   .....A.....CA..... [3840]
#L1MdA_V      .....A..A.....C.....CA..... [3840]
#L1MdA_VI     .....A..A.....C.....CA..... [3840]
#L1MdF_V      .....A..A.G.....C.....CA..... [3840]
#L1MdF_IV     .....A..A.G.....C.....CA..... [3840]
#L1MdF_I      .....A..A.G.....CG..G..CA..... [3840]
#L1MdF_II     .....A..A.G.....CG..G..CA..... [3840]
#L1MdF_III    .....N.....A..A.G.....CG..R..CA..... [3840]
#L1MdN_I      .....A..A.....C.....CA..... [3840]
#L1MdA_VII    .....A..A.....C.....CA..... [3840]
#L1MdMus_I    .....CT..G..A..A.G.....CA..... [3840]
#L1MdFanc_I   .....CT..GW..A..A.G.....CA.....T..... [3840]
#L1MdV_I      .....N.....A..A.G.....CA..... [3840]
#L1MdFanc_II  .....C..G..A..A.G.....CA..... [3840]
#L1MdMus_II   .....M..R..A..A.G.....CA..... [3840]
#L1MdV_II     .....H.....CA..G..A..A.R.H..B.....CA..... [3840]
#L1Lx_I       .....Y.....CA..G..A..A.G.....CA..... [3840]
#L1Lx_III    .....TA..G..AD..A.....C.....CA.H.D..... [3840]
#L1Lx_II     .....TA..G..A..A..Y..B.....CA.H..... [3840]
#L1Lx_IV     .....B.....TA..G..A..A.....CT.....CA.T..... [3840]
#L1MdV_III   .....A.....TA..G..A..A.....CA.T..... [3840]

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#L1MdA_I	ACCTAGGATA	GCAAAAAGTC	TTCTCAAGGA	TAAAAGAACT	TCTGGCGGAA	TCACCATGCC	AGACCTAAAG	CTTTACTACA	[3920]
#L1MdA_II									[3920]
#L1MdA_III					.C	.T	.T		[3920]
#L1MdA_IV		.C			.C	.T	.T		[3920]
#L1MdGf_I		.C			.C	.T	.T		[3920]
#L1MdGf_II					.C	.T	.T		[3920]
#L1MdTf_I	.G	.C			.C	.T	.T		[3920]
#L1MdTf_II	.G	.C			.C	.T	.T		[3920]
#L1MdTf_III		.C			.C	.T	.T		[3920]
#L1MdA_V		GC	.T	.C	.T	.T	.T		[3920]
#L1MdA_VI		.C			.C	.T	.T		[3920]
#L1MdF_V		.C	.K	.C	.T	.T	.G		[3920]
#L1MdF_IV		.C			.C	.T	.D		[3920]
#L1MdF_I	.G	.C			.C	.T	G.A	.G	[3920]
#L1MdF_II		.C			.C	.T	C.M	.G	[3920]
#L1MdF_III		.C			.C	.T	.G		[3920]
#L1MdN_I		GC	.T	.C	.T	.T			[3920]
#L1MdA_VII		.C			.C	.T	.T		[3920]
#L1MdMus_I		.C.A	.CA	.C	.B	.C	.G		[3920]
#L1MdFanc_I		.C.A	.CA	.C	.T	.H.H	.G		[3920]
#L1MdV_I		.C	.T	.YC	.T	.T	.G		[3920]
#L1MdFanc_II		.C.A	.CA	.C	.T	.C	.G		[3920]
#L1MdMus_II		.C.M	.C	.C	.DT	.H	.G		[3920]
#L1MdV_II	N	.C.A	.CA	.C	.T	.N	TD	.G	[3920]
#L1Lx_I		.C.A	.CA	.C	.T	.B	.C	.G	[3920]
#L1Lx_III	.H.Y	.G	.C.A	.CA	.N	.NN	.C	.G	[3920]
#L1Lx_II	.C	.G	.C.A	.HA	.NY	.N	.C	.G	[3920]
#L1Lx_IV	.C	.G	.C.A	.CA	.H	.G	.S.C	.G	[3920]
#L1MdV_III	.C	.G	.C.A	.CA		.G	.C	.G.T	[3920]

#L1MdA_I	GAGCAATTGT	GATAAAAAGTC	GCATGGTACT	GGTATAGAGA	CAGACAAGTA	GACCAATGGA	ATAGAATTGA	AGATCCAGAA	[4000]
#L1MdA_II									[4000]
#L1MdA_III								.C	[4000]
#L1MdA_IV				.VT				.C	[4000]
#L1MdGf_I	.G							.C	[4000]
#L1MdGf_II					.C			.C	[4000]
#L1MdTf_I						.G		.C	[4000]
#L1MdTf_II						.G		.C	[4000]
#L1MdTf_III	.G							.C	[4000]
#L1MdA_V	T				.T			.C	[4000]
#L1MdA_VI		.M			.C			.C	[4000]
#L1MdF_V			.C					.C	[4000]
#L1MdF_IV			.C					.C	[4000]
#L1MdF_I		.C			.T		.C	.G	[4000]
#L1MdF_II			.C				.C	.G	[4000]
#L1MdF_III			.C				.C	.G	[4000]
#L1MdN_I			.T					.C	[4000]
#L1MdA_VII			.T					.C	[4000]
#L1MdMus_I			.C.C		.G	.T		.C	[4000]
#L1MdFanc_I			.C.T		.G	.T		.C	[4000]
#L1MdV_I			.C		.V			.C	[4000]
#L1MdFanc_II			.C.C		.G	.T	.Y	.C	[4000]
#L1MdMus_II			.Y	.C.C	.G	.Y		.C	[4000]
#L1MdV_II			.C.T		.G	.T	.Y	.C	[4000]
#L1Lx_I			.C.C		.R.G	.T		.C	[4000]
#L1Lx_III	.D		.T	.H.T	.R.G	.T		.C	[4000]
#L1Lx_II	.R.H		.Y	.C.H	.N.DB.G	.T	.B	.C	[4000]
#L1Lx_IV	.D		.T	.C.T	.G.R	.T		.C	[4000]
#L1MdV_III	.A		.Y	.C	.V.G.A	.T		.C	[4000]

#L1MdA_I	ATGAACCCAC	ACACCTATGG	TCACTTGATC	TTCGACAAGG	GAGCTAAAAC	CATCCAGTGG	AAGAAAGACA	GCATTTTCAA	[4080]
#L1MdA_II									[4080]
#L1MdA_III									[4080]
#L1MdA_IV									[4080]
#L1MdGf_I									[4080]
#L1MdGf_II									[4080]
#L1MdTf_I					.C				[4080]
#L1MdTf_II					.C				[4080]
#L1MdTf_III									[4080]
#L1MdA_V									[4080]
#L1MdA_VI							.A		[4080]
#L1MdF_V			.T				.A		[4080]
#L1MdF_IV			.T				.A		[4080]
#L1MdF_I	.Y		.T				.A		[4080]
#L1MdF_II			.T				.A		[4080]
#L1MdF_III			.T				.A		[4080]
#L1MdN_I							.A		[4080]
#L1MdA_VII									[4080]
#L1MdMus_I			.T				.A		[4080]
#L1MdFanc_I	.T		.T				.A		[4080]
#L1MdV_I			.T				.A		[4080]
#L1MdFanc_II			.T	.A			.A		[4080]
#L1MdMus_II		.H	.T	.A			.A	.Y	[4080]
#L1MdV_II	.H		.T	.A			.AR	.Y	[4080]
#L1Lx_I	.H		.T	.A		H	.DA.AC	.N	[4080]
#L1Lx_III	.HN		.T	.A			HRA	.S	[4080]
#L1Lx_II	.N		.T	.D			.A		[4080]
#L1Lx_IV		.R	.T	.A			.A	.N	[4080]
#L1MdV_III		.A	.T	.A			.A	.T	[4080]

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#L1MdA_I      CAATTGGTGC TGGCACAACT GGTGTGTTATC GTGTAGAAGA ATGCGAATCG ATCCATACTT ATCTCCTTGT ACTAAGGTCA [4160]
#L1MdA_II     .....
#L1MdA_III    .....
#L1MdA_IV     ..W.....
#L1MdGf_I     .....
#L1MdGf_II    .....
#L1MdTf_I     .....
#L1MdTf_II    .....
#L1MdTf_III   .....
#L1MdA_V      ..A.....
#L1MdA_VI     ..A.....G...A...T...T.C...
#L1MdF_V      ..A.....CG...A...T...T.C...
#L1MdF_IV     ..A.....CG...A...T...T.C...
#L1MdF_I      ..A.....CG...A...T...TTC...
#L1MdF_II     ..A.....C...A...T.K...T...KTAC...
#L1MdF_III    ..A.....CG...A...N...T...T.C...
#L1MdN_I      ..A.....
#L1MdA_VII    ..A.....G...A...T...T.C...
#L1MdMus_I    ..A.....CG...A...T...T...A...C...
#L1MdFanc_I   ..A.....CG...A...T...T...A...C...
#L1MdV_I      ..A.....CG...A...T...T...
#L1MdFanc_II  ..A.....T...CG...A...T...T...A...C...
#L1MdMus_II   H.A.....CG...A...T...W...S...
#L1MdV_II     ..A.....T...CG...D...A...T...T...A...C...
#L1Lx_I       ..A.R...T...CG...B...A...T...A...C...
#L1Lx_III     ..A.....YT...CG...Y.G.A...D.A...T...A...C...
#L1Lx_II      ..A.....YT...CG...Y.D.A...A...NV...B...T...A...N...
#L1Lx_IV      ..A.N...TT...CA...C.A.A...A...T...T...C...A...C...
#L1MdV_III    ..A.....YT...CG...CGG.A...A...T...C...T...A...C...

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#L1MdA_I      AATCTAAGTG GATCAAGGAA CTTACACATAA AACCCAGAGAC ACTGAAACTT ATAGAGGAGA AAGTGGGGAA AAGCCTTGAA [4240]
#L1MdA_II     .....
#L1MdA_III    .....
#L1MdA_IV     .....
#L1MdGf_I     .....
#L1MdGf_II    .....
#L1MdTf_I     .....
#L1MdTf_II    .....
#L1MdTf_III   .....A...A...
#L1MdA_V      .....
#L1MdA_VI     .....G..C...
#L1MdF_V      .....C...S...C...
#L1MdF_IV     .....Y...C...S...C...
#L1MdF_I      .....T...C...A...C...
#L1MdF_II     .....T...W..C...A...C...
#L1MdF_III    .....T...C...A...C...
#L1MdN_I      .....Y...T...C...
#L1MdA_VII    .....C...C...
#L1MdMus_I    ..G.....A...C...T...B...C...
#L1MdFanc_I   ..G.....A..C..C...T.A...C...
#L1MdV_I      ..R.....C...C...
#L1MdFanc_II  ..G.....C...C...
#L1MdMus_II   ..D.....C...D...R...C...
#L1MdV_II     ..G.....R...C...G...C...
#L1Lx_I       ..G.....C...R...G...CV...
#L1Lx_III     ..G.C...D...H...C...T...W...AR...D...G.N...C.R...
#L1Lx_II      ..R.C...H...C...T...H.N...AR...V...C.G...
#L1Lx_IV      ..G.C...C...C...T...T.A...A...T...C...
#L1MdV_III    ..G.C...C...C...D...D...D...G...C...

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#L1MdA_I      GATATGGGCA CAGGGGAAAA ATTCCCTGAAC AGAACACGAA TGGCTTGTCG TGTAAGATCG AGAATCGACA AATGGGACCT [4320]
#L1MdA_II     .....
#L1MdA_III    .....
#L1MdA_IV     .....Y...
#L1MdGf_I     .....T...G...CT...T...
#L1MdGf_II    .....T...T...
#L1MdTf_I     .....T...T...
#L1MdTf_II    .....T...T...
#L1MdTf_III   .....T...T...
#L1MdA_V      .....A...T...G...T...
#L1MdA_VI     .....K...T...T...
#L1MdF_V      .....T...T...
#L1MdF_IV     .....T...T...
#L1MdF_I      .....T...T...A...T...
#L1MdF_II     .....T...T...Y...T...
#L1MdF_III    .....T...T...T...
#L1MdN_I      .....A...T...T...G...T...
#L1MdA_VII    .....T...T...
#L1MdMus_I    .....A...C...A...V...
#L1MdFanc_I   .....A...T...T...
#L1MdV_I      .....T...T...
#L1MdFanc_II  .....N...
#L1MdMus_II   .....V...
#L1MdV_II     .....R...S...A...
#L1Lx_I       B.Y.....D...W...T...H...C...R...A...C...A...D...
#L1Lx_III     S.C.....D...W...T...H...C...R...A...C...A...T...
#L1Lx_II      C.C.....T...C...D...A...N...A...T...
#L1Lx_IV      C.C.....G...C...C...A...C...A...T...
#L1MdV_III    C.Y.....B...C...R...A...A...

```

#L1MdA_I	AATGAAACTC	CAAAGTTTCT	GCAAGGCAAA	AGACACCGTC	AATAAGACAA	AAAGACCACC	AACAGATTGG	GAAAGGATCT	[4400]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[4400]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[4400]
#L1MdA_IV	C.....	.....C	.....	.....	.....	.....	.....	.....	[4400]
#L1MdGf_I	.....	.....	.....	.....	.....G.....	.....	.....	.....	[4400]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[4400]
#L1MdTf_I	.....	.....	.....	.....T.....	.....T.....	.....	.....C.....	.....	[4400]
#L1MdTf_II	.....	.....	.....	.....T.....	.....T.....	.....	.....C.....	.....	[4400]
#L1MdTf_III	.....	.....	.....	.....	.....	.....G.....	.....	.....	[4400]
#L1MdA_V	C.....G	.....C	.....	.....	.....	.....	.....	.....	[4400]
#L1MdA_VI	C.....G	.....C	.....T.....	.....	.....	.....G.....	.....	.....	[4400]
#L1MdF_V	C..A...T.G	.....C.....	.....T.....	.....	.....	.....G.....	.....	.....	[4400]
#L1MdF_IV	C..A...T.G	.....C.....	.....T.....	.....	.....	.....G.....	.....	.....	[4400]
#L1MdF_I	C..A...T.G	.....C.....	.....A.....	.....	.....	.....G.....	.....	.....	[4400]
#L1MdF_II	C..A...T.G	.....C.....	.....	.....	.....	.....	.....	.....	[4400]
#L1MdF_III	C..A...GT.G	.....C.....	.....	.....	.....	.....	.....	.....	[4400]
#L1MdN_I	C.....G	.....C	.....	.....	.....	.....	.....	.....	[4400]
#L1MdA_VII	C.....G	.....C	.....	.....	.....	.....G.....	.....	.....	[4400]
#L1MdMus_I	C..A...T.G	.....C.....	.....T.G.....	.....T.....	.....	.....G.....	.....A.T.....	.....	[4400]
#L1MdFanc_I	C..A...T.G	.....C.....	.....T.....	.....T.....	.....	.....G.....	.....	.....T.....	[4400]
#L1MdV_I	C..A...T.G	.....C.....	.....T.....	.....T.....	.....	.....G.....	.....	.....	[4400]
#L1MdFanc_II	C..A...T.G	.....C.....	.....T.....	.....T.....	.....	.....G.....	.....	.....	[4400]
#L1MdMus_II	C..A...T.G	.....C.....	.....T.....	.....T.....	.....	.....G.....	.....	.....	[4400]
#L1MdV_II	C..A...T.G	.....C.....	.....T.....	.....G.....T.....	.....M.....	.....G.M.Y.....	.....A.....	.....	[4400]
#L1Lx_I	C..A...T.G	.....C.....	.....T.....	.....G.....T.....	.....	.....G.V.....	.....A.....	.....	[4400]
#L1Lx_III	C..A...T.G	.....C.....	.....T.....	.....G.....T.....	.....GR.....	.....T.G.A.....	.....A.....	.....	[4400]
#L1Lx_II	C..A...T.G	.....C.....	.....NT.....	.....G.....T.....	.....G.....	.....C.G.A.....	.....A.....	.....	[4400]
#L1Lx_IV	C..A...T.G	.....C.....	.....T.....	.....G.....T.....	.....G.....	.....C.G.A.....	.....A.....	.....	[4400]
#L1MdV_III	C..A...T.G	.....C.....	.....T.....	.....G.....T.....	.....G.....	.....C.G.A.....	.....A.....	.....H.....	[4400]

#L1MdA_I	TTACCTATCC	TAAATCAGAT	AGGGGACTAA	TATCCAACAT	ATATAAGAA	CTCAAGAAGG	TGGACTTCAG	AAAATCAAAT	[4480]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....	[4480]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....	[4480]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....	[4480]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....	[4480]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....	[4480]
#L1MdTf_I	.....	.....	.....	.....	.....	.....	.....C.....	.....	[4480]
#L1MdTf_II	.....	.....	.....	.....	.....	.....	.....C.....	.....	[4480]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....Y.....	[4480]
#L1MdA_V	.....T.....	.....	.....	.....T.....	.....	.....G.....	.....C.....	.....	[4480]
#L1MdA_VI	.....	.....R.....	.....	.....T.....	.....	.....	.....C.....	.....	[4480]
#L1MdF_V	.....	.....	.....	.....T.....	.....	.....	.....C.....	.....	[4480]
#L1MdF_IV	.....	.....	.....	.....T.....	.....	.....	.....C.....	.....	[4480]
#L1MdF_I	.....	.....C.....G.....	.....	.....T.....	.....	.....	.....C.....	.....	[4480]
#L1MdF_II	.....	.....C.....G.....C	.....	.....T.....	.....	.....A.....C.....T.....	.....	.....	[4480]
#L1MdF_III	.....	.....	.....	.....T.....	.....	.....	.....C.....	.....	[4480]
#L1MdN_I	.....T.....	.....	.....	.....T.....	.....	.....G.....	.....C.....	.....	[4480]
#L1MdA_VII	.....	.....	.....	.....T.....	.....	.....	.....C.....	.....	[4480]
#L1MdMus_I	.....A.....	.....T.....	.....	.....T.....	.....C.....G.....	.....C.....A.....C.....	.....T.....	.....	[4480]
#L1MdFanc_I	.....A.....	.....T.....	.....	.....T.....	.....C.....G.....	.....C.....	.....T.....	.....	[4480]
#L1MdV_I	.....A.....	.....	.....	.....T.....	.....	.....V.....	.....C.....	.....H.....	[4480]
#L1MdFanc_II	.....A.....	.....C.....	.....	.....T.....	.....C.....	.....C.....	.....C.....	.....	[4480]
#L1MdMus_II	.....A.....	.....	.....	.....W.....	.....	.....V.....C.....	.....C.....	.....	[4480]
#L1MdV_II	.....HA.....	.....GN.....	.....V.....	.....T.....	.....	.....T.....	.....C.....	.....Y.....	[4480]
#L1Lx_I	.....A.....	.....C.....	.....D.....	.....T.....	.....Y.....	.....T.....D.....	.....C.....	.....Y.....	[4480]
#L1Lx_III	.....A.C.....	.....C.....C.....	.....AV.G.....	.....T.....	.....C.....	.....T.....A.....C.....	.....G.....H.....	.....	[4480]
#L1Lx_II	.....A.Y.....	.....C.....C.....	.....A.G.....	.....T.....	.....C.....	.....N.....DT.....A.....C.....	.....G.....N.....	.....	[4480]
#L1Lx_IV	.....A.....	.....C.....T.....	.....A.G.....	.....T.....	.....C.....	.....T.....A.....C.....	.....G.....C.....	.....	[4480]
#L1MdV_III	.....A.....	.....C.....C.....	.....A.G.....	.....T.....	.....C.....	.....T.....A.....C.....	.....G.....C.....	.....	[4480]

#L1MdA_I	AACCCCATTA	AAAAATGGGG	CTCAGAACTG	AACAAAGAAT	TCTCACCTGA	GGAATACCGA	ATGGCAGAGA	AGCACTTGAA	[4560]
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdA_III	.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdA_IV	.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdGf_I	.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdGf_II	.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdTf_I	.....C.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdTf_II	.....C.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdTf_III	.....	.....	.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdA_V	.....C.....	.....G.....	.....G.....	.....	.....C.....	.....	.....A.....T.....	.....A.....C.....	[4560]
#L1MdA_VI	.....	.....	.....G..A.....	.....	.....	.....	.....T.....	.....A.....C.....	[4560]
#L1MdF_V	.....	.....	.....G..A.....	.....	.....	.....	.....T.....	.....C.....	[4560]
#L1MdF_IV	.....	.....	.....G..A.....	.....	.....	.....	.....T.....	.....C.....	[4560]
#L1MdF_I	.....	.....	.....G.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdF_II	.....	.....	.....T.....	.....	.....C.....	.....	.....	.....C.....	[4560]
#L1MdF_III	.....	.....	.....G.....	.....	.....	.....	.....	.....C.....	[4560]
#L1MdN_I	.....G.....C.....	.....G.....	.....G.....	.....	.....G.....	.....	.....A.....T.....	.....A.....C.....	[4560]
#L1MdA_VII	.....	.....	.....G..A.....	.....	.....	.....	.....T.....	.....C.....	[4560]
#L1MdMus_I	.....	.....	TA.....G..A.....	.....	.....A.....	.....	.....G.....T.....	.....	[4560]
#L1MdFanc_I	.....	.....WB.....	TA.....G..A.....	.....	.....A.....	.....	.....T.....	.....C.....	[4560]
#L1MdV_I	.....	.....	A.....G..A.....	.....	.....A.....	.....Y.....	.....T.....	.....C.....	[4560]
#L1MdFanc_II	.....	.....	TA.....G..A.....	.....	.....A.....	.....	.....T.....	.....C.....	[4560]
#L1MdMus_II	.....Y.....	.....V.....	TA.....V..A.....	.....D.....	.....H.....AV.....	.....	.....T.....	.....YC.....	[4560]
#L1MdV_II	.....T.....	.....	TA.....G..A.....	.....	.....A.....	.....	.....T.....	.....C.R.....	[4560]
#L1Lx_I	.....T.....	.....	TA.....G..A.....	.....V.....	.....A.....	.....H.....	.....T.....	.....C.A.....	[4560]
#L1Lx_III	.....T.....	.....	R.....TA.....G..A.....	.....	.....A.....	.....H.....	.....T.....	.....C.A.....	[4560]
#L1Lx_II	.....T.....	.....	TA.....G..A.....	.....	.....A.....	.....Y.....	.....T.....	.....C.A.....	[4560]
#L1Lx_IV	.....T.....	.....	AA.....G..A.....	.....G.....	.....A.....	.....ACT.A.....	.....K.....TV.....	.....C.A.....	[4560]
#L1MdV_III	.....T.....	.....	R.....TA.....G..A.....	.....	.....T.....A.....	.....R.....T.A.....	.....T.....	.....C.A.....	[4560]

#L1MdA_I	AAAATGTTCA	ACATCCTTAA	TCATCAGGGA	AATGCAAATC	AAAACAACCC	TGAGATTCCA	CCTCACACCA	GTCAGAATGG	[4640]
#L1MdA_II									[4640]
#L1MdA_III									[4640]
#L1MdA_IV									[4640]
#L1MdGf_I	. . . . . C								[4640]
#L1MdGf_II									[4640]
#L1MdTf_I								. . . . . G	[4640]
#L1MdTf_II								. . . . . G	[4640]
#L1MdTf_III								. . . . . T	[4640]
#L1MdA_V			. . . . . A . . . . .				. . . . . T		[4640]
#L1MdA_VI		. . . . . G . . . . .					. . . . . T		[4640]
#L1MdF_V		. . . . . G . . . . .					. . . . . Y		[4640]
#L1MdF_IV		. . . . . R							[4640]
#L1MdF_I					. . . . . A . . . . .		. . . . . T . . . . .	. . . . . T	[4640]
#L1MdF_II									[4640]
#L1MdF_III									[4640]
#L1MdN_I			. . . . . A . . . . .				. . . . . T		[4640]
#L1MdA_VII	. . . . . Y . . . . .	. . . . . G . . . . .	. . . . . A . . . . .				. . . . . T		[4640]
#L1MdMus_I									[4640]
#L1MdFanc_I					. . . . . T				[4640]
#L1MdV_I									[4640]
#L1MdFanc_II									[4640]
#L1MdMus_II								. . . . . H	[4640]
#L1MdV_II									[4640]
#L1Lx_I	. . . . . R . . . . .	. . . . . Y . . . . .	. . . . . R . . . . .				. . . . . B		[4640]
#L1Lx_III	. . . . . G . . . . .	. . . . . G							[4640]
#L1Lx_II	. . . . . G . . . . .		. . . . . N . . . . .				. . . . . H		[4640]
#L1Lx_IV	. . . . . G . . . . .		. . . . . G . . . . .		. . . . . D				[4640]
#L1MdV_III	. . . . . G . . . . .	. . . . . G							[4640]
#L1MdA_I	CTAAGATCAA	AAATTCAGGT	GACAGCAGAT	GCTGGCGAGG	ATGTGGAGAA	AGAGGAACAC	TCCTCCATTG	TTGGTGGGAG	[4720]
#L1MdA_II				. . . . . T . . . . .				. . . . . K	[4720]
#L1MdA_III				. . . . . T . . . . .				. . . . . T	[4720]
#L1MdA_IV								. . . . . T	[4720]
#L1MdGf_I				. . . . . T . . . . .				. . . . . T	[4720]
#L1MdGf_II				. . . . . T . . . . .				. . . . . T	[4720]
#L1MdTf_I								. . . . . T	[4720]
#L1MdTf_II								. . . . . T	[4720]
#L1MdTf_III								. . . . . T	[4720]
#L1MdA_V								. . . . . T	[4720]
#L1MdA_VI								. . . . . T	[4720]
#L1MdF_V			. . . . . H . . . . .					. . . . . T	[4720]
#L1MdF_IV								. . . . . T	[4720]
#L1MdF_I		. . . . . C . . . . .				. . . . . G . . . . .		. . . . . T	[4720]
#L1MdF_II	. . . . . S . . . . .							. . . . . T	[4720]
#L1MdF_III								. . . . . T	[4720]
#L1MdN_I								. . . . . T	[4720]
#L1MdA_VII							. . . . . Y . . . . .	. . . . . T	[4720]
#L1MdMus_I	. . . . . G . . . . .							. . . . . C	[4720]
#L1MdFanc_I								. . . . . C	[4720]
#L1MdV_I								. . . . . T	[4720]
#L1MdFanc_II					. . . . . D . . . . .			. . . . . C	[4720]
#L1MdMus_II				. . . . . R . . . . .		. . . . . R . . . . .		. . . . . Y	[4720]
#L1MdV_II		. . . . . C . . . . .				. . . . . R . . . . .		. . . . . C	[4720]
#L1Lx_I	. . . . . M . . . . .	. . . . . C . . . . .						. . . . . C	[4720]
#L1Lx_III		. . . . . C . . . . .						. . . . . H	[4720]
#L1Lx_II		. . . . . C . . . . .			. . . . . V . . . . .			. . . . . Y	[4720]
#L1Lx_IV		. . . . . C . . . . .		. . . . . A . . . . .				. . . . . H	[4720]
#L1MdV_III		. . . . . C . . . . .	. . . . . R . . . . .					. . . . . Y	[4720]
#L1MdA_I	TGCAGGCTTG	TACAACCACT	CTGGAATCA	GTCTGGCGGT	TCCTCAGAAA	ACTGGACATA	GTACTACCGG	AGGATCCAGC	[4800]
#L1MdA_II						. . . . . T . . . . .		. . . . . [4800]	
#L1MdA_III						. . . . . T . . . . .		. . . . . [4800]	
#L1MdA_IV						. . . . . T . . . . .		. . . . . [4800]	
#L1MdGf_I			. . . . . G . . . . .			. . . . . T . . . . .		. . . . . [4800]	
#L1MdGf_II						. . . . . T . . . . .		. . . . . [4800]	
#L1MdTf_I						. . . . . T . . . . .		. . . . . [4800]	
#L1MdTf_II						. . . . . T . . . . .		. . . . . [4800]	
#L1MdTf_III			. . . . . C . . . . .			. . . . . T . . . . .		. . . . . [4800]	
#L1MdA_V	. . . . . A . . . . .					. . . . . T . . . . .		. . . . . H	[4800]
#L1MdA_VI	. . . . . A . . . . .					. . . . . T . . . . .	. . . . . R . . . . .	. . . . . C	[4800]
#L1MdF_V	. . . . . A . . . . .					. . . . . T . . . . .		. . . . . C	[4800]
#L1MdF_IV	. . . . . A . . . . .					. . . . . T . . . . .		. . . . . C	[4800]
#L1MdF_I	. . . . . A . . . . .					. . . . . T . . . . .		. . . . . C	[4800]
#L1MdF_II	. . . . . A . . . . .					. . . . . T . . . . .	. . . . . R . . . . .	. . . . . [4800]	
#L1MdF_III	. . . . . A . . . . .					. . . . . T . . . . .		. . . . . R	[4800]
#L1MdN_I	. . . . . A . . . . .					. . . . . T . . . . .		. . . . . C	[4800]
#L1MdA_VII	. . . . . A . . . . .					. . . . . T . . . . .	. . . . . G . . . . .	. . . . . C	[4800]
#L1MdMus_I	. . . . . A . . . . .	. . . . . K . . . . .						. . . . . V TA	[4800]
#L1MdFanc_I	. . . . . A . . . . .		. . . . . G . . . . .			. . . . . T . . . . .	. . . . . A . . . . .	. . . . . [4800]	
#L1MdV_I	. . . . . A . . . . .					. . . . . T . . . . .		. . . . . [4800]	
#L1MdFanc_II	. . . . . A . . . . .	. . . . . G . . . . .				. . . . . T . . . . .		. . . . . A	[4800]
#L1MdMus_II	. . . . . AD . . . . .	. . . . . K . . . . .				. . . . . T . . . . .	. . . . . Y . . . . .	. . . . . R	[4800]
#L1MdV_II	. . . . . A . . . . .	. . . . . G . . . . .		. . . . . T . . . . .		. . . . . T . . . . .		. . . . . A	[4800]
#L1Lx_I	. . . . . A . . . . .	. . . . . G . . . . .		. . . . . T . . . . .		. . . . . T . . . . .	. . . . . GD . . . . .	. . . . . R	[4800]
#L1Lx_III	. . . . . A . . . . .	. . . . . G . . . . .		. . . . . T . . . . .		. . . . . T . . . . .	. . . . . R . . . . .	. . . . . YC	[4800]
#L1Lx_II	. . . . . A . . . . .	. . . . . G . . . . .	. . . . . H . . . . .			. . . . . T . . . . .	. . . . . D . . . . .	. . . . . T	[4800]
#L1Lx_IV	. . . . . A . . . . .	. . . . . G . . . . .				. . . . . T . . . . .		. . . . . T	[4800]
#L1MdV_III	. . . . . A . . . . .	. . . . . G . . . . .		. . . . . T . . . . .	. . . . . V . . . . .	. . . . . T . . . . .		. . . . . T	[4800]

#L1MdA_I GTAGAGACTG CCATAGCCAG GGATCCACCC CATAATCAGC ATCCAAACGC TGACACCATT GCATACACTA GCAAGATTTT [5360]
#L1MdA_II T [5360]
#L1MdA_III T [5360]
#L1MdA_IV S T [5360]
#L1MdGf_I C A T G T T T A [5360]
#L1MdGf_II K T [5360]
#L1MdTf_I T [5360]
#L1MdTf_II T [5360]
#L1MdTf_III T T [5360]
#L1MdA_V C T T T C A CC [5360]
#L1MdA_VI C T T T C [5360]
#L1MdF_V C Y G T C [5360]
#L1MdF_IV C C G T C [5360]
#L1MdF_I C T T TG T T T Y [5360]
#L1MdF_II C T T A T G T [5360]
#L1MdF_III C T G T T Y [5360]
#L1MdN_I C T T T T C G A CC [5360]
#L1MdA_VII C T T T T C A CG [5360]
#L1MdMus_I CC CC C G G T CA A T TG C [5360]
#L1MdFanc_I CC A CC C G T CA C A T TG C [5360]
#L1MdV_I CC GC C G T CA A T TG C [5360]
#L1MdFanc_II CC CC C G T A A D CA C A T TG C [5360]
#L1MdMus_II CC D Y C C G B T TA A CA YN A Y T TG C A [5360]
#L1MdV_II CC CB CHTG T A A CA C AR T D H G TG C A GCH [5360]
#L1Lx_I CC CC C TG T A A CA C A T H G TD C A KY [5360]
#L1Lx_III CC CC C TG T TA A CA C A NT TGG TG C A TGC [5360]
#L1Lx_II CC N Y CC CVTG T Y TA T YA C A T TGG TGHC AS TGC [5360]
#L1Lx_IV CC Y CC C TG T TA Y CA C G GYT TGG TG C G TGC [5360]
#L1MdV_III CC T CC C TG T TA T TA C A T TGG TG C AG TGCA [5360]

#L1MdA_I ATTGAAAGGA CGCAGATGTA GCTGTCTCTT GTGAGACTAT GCCGGGGCCC AGCAAACACA GAAGTGGATG CTCACAGTCA [5440]
#L1MdA_II C [5440]
#L1MdA_III C [5440]
#L1MdA_IV C [5440]
#L1MdGf_I GC C T A G T T G [5440]
#L1MdGf_II C [5440]
#L1MdTf_I C [5440]
#L1MdTf_II C [5440]
#L1MdTf_III C [5440]
#L1MdA_V G C CGT A Y G [5440]
#L1MdA_VI GC C T A K [5440]
#L1MdF_V GC C W A R [5440]
#L1MdF_IV GC C T A D [5440]
#L1MdF_I GC C [5440]
#L1MdF_II GC C [5440]
#L1MdF_III GC C [5440]
#L1MdN_I G C GT A C G [5440]
#L1MdA_VII GC C T A G T T [5440]
#L1MdMus_I GC C T A C G T G T [5440]
#L1MdFanc_I GC G C T N A G A T G T [5440]
#L1MdV_I GC C T A G A T G T [5440]
#L1MdFanc_II GC C T A G A T G T [5440]
#L1MdMus_II GC C T YA V G ART T G T B [5440]
#L1MdV_II NC C GC T A V C A R V C D A T TR T GR T R [5440]
#L1Lx_I GC C GC T A C A R G C A T GR T [5440]
#L1Lx_III GC C GC T A C A R G C D A TR T GA T G T C [5440]
#L1Lx_II GC C D GC T A BC A G C D A TR T GA T D B N C [5440]
#L1Lx_IV GC T R GC T A G C A A G C A A T GA T G C [5440]
#L1MdV_III GC C T A G C A D CC A A T TA T G C Y G C [5440]

#L1MdA_I GCTAATGGAT GGATCATAGG G-CTCCCAAT GGAGGAGCTA GAGAAAGTAG CCAAGGAGCT AAAGGGATCT GCAACCTAT [5520]
#L1MdA_II [5520]
#L1MdA_III C W [5520]
#L1MdA_IV D C [5520]
#L1MdGf_I T C T C A C A [5520]
#L1MdGf_II C [5520]
#L1MdTf_I C [5520]
#L1MdTf_II C [5520]
#L1MdTf_III C [5520]
#L1MdA_V A T C C [5520]
#L1MdA_VI T C C [5520]
#L1MdF_V T C C [5520]
#L1MdF_IV T C C [5520]
#L1MdF_I T G C C C T C A [5520]
#L1MdF_II T A C C C A C A [5520]
#L1MdF_III T C C [5520]
#L1MdN_I A T C C [5520]
#L1MdA_VII T C C [5520]
#L1MdMus_I T TA A C C T VV G G [5520]
#L1MdFanc_I T TAV A C C A C C G G [5520]
#L1MdV_I T A C C [5520]
#L1MdFanc_II T T A C C D C N G [5520]
#L1MdMus_II T T DA C C Y D C R R D [5520]
#L1MdV_II T C T G C D TC A [5520]
#L1Lx_I T Y T C G C TC A [5520]
#L1Lx_III A C T G C D TC R [5520]
#L1Lx_II D C T G C N TC B [5520]
#L1Lx_IV A C T BC C V GTC WD [5520]
#L1MdV_III A C T G CG TC A T [5520]

#L1MdA_I	AGGTGGAACA	ACATTATGAG	CTAACCAGTA	CCCC-----	-----	-----	-----	-----	-----	G	[5600]
#L1MdA_IIA	-----	-----	-----	-----	-----	.	[5600]
#L1MdA_IIIA	-----	-----	-----	-----	-----	.	[5600]
#L1MdA_IVA	-----	-----	-----	-----	-----	.	[5600]
#L1MdGf_IA	-----	-----	-----	-----	-----	.	[5600]
#L1MdGf_II	...C.....A	Y.....	-----	-----	-----	-----	-----	.	[5600]
#L1MdTf_IA	-----	-----	-----	-----	-----	T	[5600]
#L1MdTf_IIA	-----	-----	-----	-----	-----	T	[5600]
#L1MdTf_IIIT.....A	-----	-----	-----	-----	-----	.	[5600]
#L1MdA_V	H.....A	-----	-----	-----	-----	-----	A	[5600]
#L1MdA_VIA	-----	-----	-----	-----	-----	.	[5600]
#L1MdF_VA..ACC---	-----	-----	-----	-----	-----	.	[5600]
#L1MdF_IVA..ACC---	-----	-----	-----	-----	-----	.	[5600]
#L1MdF_IA..AG---	-----	-----	-----	-----	-----	.	[5600]
#L1MdF_IIA..A	..G.....	-----	-----	-----	-----	-----	.	[5600]
#L1MdF_IIIA	-----	-----	-----	-----	-----	D	[5600]
#L1MdN_I	C..A.....A	-----	-----	-----	-----	-----	A	[5600]
#L1MdA_VIIC....A	-----	-----	-----	-----	-----	.	[5600]
#L1MdMus_IA..A	..Y.....	..C---	-----	-----	-----	-----	-----	A	[5600]
#L1MdFanc_IA..AC---	-----	-----	-----	-----	-----	A	[5600]
#L1MdV_IA..AC---	-----	-----	-----	-----	-----	A	[5600]
#L1MdFanc_IIA....	..A..ACHC---	-----	-----	-----	-----	-----	CA	[5600]
#L1MdMus_IIA.D....	..A..AH..CC---	-----	-----	-----	-----	-----	A	[5600]
#L1MdV_II	....A.....	N..A...A	.....	H...CAGAGC	TCCTTGGAAC	TAAACCACCA	ATCAAAGAAA	ACACATGGTR		[5600]
#L1Lx_I	.D.A...V..	..A..A	.....	..CAGAGC	TCCTTGGAC	TAAACCACCA	ATCAAAGAAA	ACACATGGT.		[5600]
#L1Lx_III	..A.....	-..A...A	..C.....	..CAGAGC	TCCCAGGGAC	TAAACCACCA	ACCAAAGAGT	ACACATGGA.		[5600]	
#L1Lx_II	..A.....	..D...A	..C.....	H...CAGAGC	TCCCAGGDAC	TAAACCACCA	ACNAACGAGT	ACACATGGA.		[5600]	
#L1Lx_IV	D.AG...G..	..G.G.C.A	..AGG...DAH	H...CAGAGC	TCCCAGGGAC	TGGGCCACCA	ACCAAAGART	ACACATGGA.		[5600]	
#L1MdV_III	...AA.....	..A...C.A	..C.....	H...CAGAGC	TCCCAGGGAC	TAAGCCATCA	ACAAAGGAGT	ACACATGG--		[5600]	
#L1MdA_I	GAGCTCTTGA	CTCTAGCTGC	ATATATATCA	AAAGATGGCC	TAGTCGGCCA	TCACTGGAAA	GAGAGGCCCA	TTGGACTTGC		[5680]	
#L1MdA_II	.....	.....	.....	.....	.....	.....	.....	.....		[5680]
#L1MdA_III	.....	.....	..G.....	.....	.....	.....	.....	.....AC..		[5680]
#L1MdA_IV	.....	.....	..G.....	.....	.....	.....	.....	.....AC..		[5680]
#L1MdGf_I	.....	.....	..GC.....	.....	.....	.....	.....	.....AC..		[5680]
#L1MdGf_II	.....	.....	..G.....	.....	.....	.....	.....	.....AC..		[5680]
#L1MdTf_I	.....	.....	..G.....	.....	.....	.....	.....	.....AC..		[5680]
#L1MdTf_II	.....	.....	..G.....	.....	.....	.....	.....	.....AC..		[5680]
#L1MdTf_III	.....	.....	..G.....	.....	.....	.....	.....	.....ACA.		[5680]
#L1MdA_V	.....	.....	..G.....	.....	.....	.....	.....	...T.AG..		[5680]
#L1MdA_VI	.....	.....	..G.....	.....	.....	.....	.....	...W....		[5680]
#L1MdF_V	....G..T..	.....	..G...G..	..G...G..	.....	..K.....	.....	...T.G....		[5680]
#L1MdF_IV	....G..T..	.....	..G...G..	..G...G..	.....	..K.....	.....	...T....		[5680]
#L1MdF_I	....T.....	T.....	..G...G..	.....	.....	..C.....	.....	.....		[5680]
#L1MdF_II	....T.....	.....	..G...G..	.....	.....	..C.....	.....	.....		[5680]
#L1MdF_III	.....	.....	..G.....	.....	.....	.....	.....	.....		[5680]
#L1MdN_I	.....	.....	..G.....	.....	..A.....	.....	.....	...T.AG..		[5680]
#L1MdA_VII	.....	.....	..G.....	.....	.....	.....	.....	.....AC..		[5680]
#L1MdMus_I	..R...R..T	.....	..G...G..	..G...G..	.....	..T...G..	.....	..C...T..A..		[5680]
#L1MdFanc_I	....G..T..	.....	..G...G..	..G...G..	.....	..Y...G..	.....	..C...TH..		[5680]
#L1MdV_I	....G..T..	.....	..G...G..	..G...G..	.....	..T...G..	.....	..C...T....		[5680]
#L1MdFanc_II	....G..T..	.....T.....	..G...G..	..G...G..	.....	..D...G..G	.....	..-...T....		[5680]
#L1MdMus_II	....-G..T..	....T.....	..G...G..	..G...G..	.....	..D...G..G	.....	..-...TH...Y		[5680]
#L1MdV_II	.DA..TD..G	.....Y.....	..G...G..	..G...G..	.....	..NV..T..	..A...G..G	.....-..D..T..C..T		[5680]
#L1Lx_I	.GA...V..K	.....	..G...G..	..G...G..	.....	..Y...A...G..G	.....	..-...T..B..T		[5680]
#L1Lx_III	.GA.C.A..G	..C.....	..G...G..	..G...G..	.....	..T..T..A..	..A...G..G	.....H...T..H..W		[5680]
#L1Lx_II	.GA.C.A..G	..C...C..	..G...G..	..G...G..	.....	..T...D..	..A..DG..G	.....-...T..C..RT		[5680]
#L1Lx_IV	.NGA.C.A..G	..D..G..G..	..G...G..	..G...G..	.....	..T..T..A..	..G...G..G	.....-...N...G..C..A		[5680]
#L1MdV_III	-----	..C.....	..G...G..	..G...G..	.....	..T...ATG..	..A...G..R	.....-...T...G..C..AT		[5680]
#L1MdA_I	AAACTTTATA	T----GCCCC	AGTACAGGG	AATACCAGG	CCAAAAAGG	GGAGTGGGTG	GGCAGGGG--	--AGTG----		[5760]	
#L1MdA_II	.....	-----	..CD.....	.....	.....	.....	.....	-----		[5760]
#L1MdA_III	.....	-----	..CG.....	.....	.....	.....	..T.....	-----		[5760]
#L1MdA_IV	....G.....	-----	..CG.....	.....	..AAA	AA.AAAT.G	AATG..T.--	--G..A----		[5760]
#L1MdGf_I	.....	-----	..CG.....	.....	..T...A..	.....	..T.....	..A----		[5760]
#L1MdGf_II	.....	-----	..CG.....	.....	.....	..KT.....	.....	..K----		[5760]
#L1MdTf_I	.G...G.G	-----	G.....	..CG.....	..GG..	.....	..T.....	..K----		[5760]
#L1MdTf_II	.G...G.G	-----	G.....	..CG.....	..GG..	.....	..T.....	-----		[5760]
#L1MdTf_III	.....	-----	..A.....	..CG.....	.....	..C.....	..T.....	-----		[5760]
#L1MdA_V	.....	-----	..CG.....	.....	..AT..	..A.....	..T.....	-----		[5760]
#L1MdA_VI	.....	-----	..CG.....	.....	..T.....	.....	..T.....	-----		[5760]
#L1MdF_V	.....	....T...Y..	..CG.....	..G...T..	.....	..T.....	..T.G....	-----		[5760]
#L1MdF_IV	.....	....T.....	..CG.....	..G...T..	.....	..K.....	..TV.....	....R.KK----		[5760]
#L1MdF_I	.....	-----	..CG.....	.....	..S.....	.....	..T.....	..T....		[5760]
#L1MdF_II	.....	-----	..CG.....	.....	.....	.....	..T.....	-----		[5760]
#L1MdF_III	.....	-----	..HG.....	.....	..T.....	.....	..T.....	-----		[5760]
#L1MdN_I	..G.....	-----	..CG.....	.....	..AT..	..A.....	..T.....	-----		[5760]
#L1MdA_VII	.....	-----	..CG.....	.....	..T.....	..A.....	..T.....	-----		[5760]
#L1MdMus_I	.....	-----	..CG.....	.....	..G...T..	..A.....	..T.....	....CA----		[5760]
#L1MdFanc_I	.....	-----	..G.....	..G...T..	.....	..T.....	.....	....CA----		[5760]
#L1MdV_I	.....	-----	..C.....	..G...T..	.....	..T.....	.....	....C....		[5760]
#L1MdFanc_II	G..GA.....	-----	..G.....	..GG...CA	.....	.....	..TT.....	....CA----		[5760]
#L1MdMus_II	G..GA.Y...	-----	..G.....	..D...GG...C	.....	..D...TTD...	.....	....CA----		[5760]
#L1MdV_II	G..GGN.C..	-----	..T.....	..G...V...GGG...T	.....	..TT...	.....	....CA----		[5760]
#L1Lx_I	G..GG.C.C..	-----	..H...T...	..G...C...GG...C	.....	..TT.K...	.....	....CA----		[5760]
#L1Lx_III	G..GGC.CD.	-----	..H...D.GT..R	..G...R...GGG...C	.....	..TT.T...	.....	....CA----		[5760]
#L1Lx_II	G..GGC.CR.	-----	..K...GT..D	..G...NA...GGD...C	.....	..TTV.T...	.....	....CA----		[5760]
#L1Lx_IV	G..GGD.G..TR....	..GT...G..	..BBB...AGG...GACD.TG...CACCCT		[5760]	
#L1MdV_III	G..GGC.CG.	..AGAT....	..GT...TG...	..GGG.G.TTG..T.GA	GG.ACACCCT			[5760]	


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#L1MdA_I ----- GGG-----G TGGGTGGATA TGGGGGACT- ---TTGGTA TAGCATTGGA AATGTAAATG AGTTAAATAC [5840]
#L1MdA_II ----- . . . . . [5840]
#L1MdA_III ----- . . . . .G. . . . . [5840]
#L1MdA_IV ----- . . . . .AAGTGG. G. . . . .A. G. . . . . [5840]
#L1MdGf_I ----- . . . . .C. . . . . [5840]
#L1MdGf_II ----- . . . . .G. . . . . [5840]
#L1MdTf_I ----- . . . . .G. A. . . . . [5840]
#L1MdTf_II ----- . . . . .G. A. . . . . [5840]
#L1MdTf_III ----- . . . . .G. . . . . [5840]
#L1MdA_V ----- . . . . .G. . . . .A. G. G. . . . . [5840]
#L1MdA_VI ----- . . . . .GK. G. . . . .A. G. . . . . [5840]
#L1MdF_V ----- . . . . .G. G. . . . . [5840]
#L1MdF_IV ----- K. KGG----- G. . . . .G. . . . .K. T. . . . . [5840]
#L1MdF_I ----- . . . . .G. . . . .C- . . . . . [5840]
#L1MdF_II ----- . . . . .GT----- . . . . .G. . . . . [5840]
#L1MdF_III ----- . . . . .G----- . . . . .A. G. . . . . [5840]
#L1MdN_I ----- . . . . .G. . . . . [5840]
#L1MdA_VII ----- . . . . .G. . . . .A. G. . . . . [5840]
#L1MdMus_I ----- . . . . .CG----- G. . . . .A. G. . . . . [5840]
#L1MdFanc_I ----- . . . . .CG----- G. . . . .A. G. . . . . [5840]
#L1MdV_I ----- . . . . .DG----- G. . . . .A. G. . . . . [5840]
#L1MdFanc_II ----- . . . . .CG----- G. . . . .A. G. . . . . [5840]
#L1MdMus_II ----- . . . . .CG----- G. . . . .A. NG. . . . . [5840]
#L1MdV_II ----- . . . . .GGAGGN. GDA. G. . . . .G. . . . .ATTT- ---CGGA. GG G. AAC. A. . . . .G. GG. NAA CA. .TG. A. T [5840]
#L1Lx_I ----- . . . . .GGAGCG. G. A. GD. . . . .G. . . . .ATTT- ---CGGA. DG G. AAC. A. . . . .G. GG. TAA CA. .TG. A. T [5840]
#L1Lx_III ----- . . . . .DGDAGGG. DKABGR. . . . .G. . . . .TTT- ---CGGA. GG G. AACCA. . . . .G. GG. TAA YA. .TG. A. T [5840]
#L1Lx_II ----- . . . . .GGAGGNN RNAKG. . . . .GD. . . . .NTT- ---CGGADGG G. AABBA. . . . .G. GG. TAA CA. .TG. A. T [5840]
#L1Lx_IV ----- CATAGARGCA . . . . .GGACGG. C. ATG. . . . .G. . . . .TTTC- ---YAAA. GG G. .ACC. . . . .G. GG. AA CA. .TG. A. T [5840]
#L1MdV_III ----- CATAGAANCA . . . . .GGAGGRA G. ATGD. . . . .G. . . . .TTTCT DGGNGG. .GR G. AACNG. . . . .G. GG. TAA CA. .TG. A. T [5840]

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#L1MdA_I CTAATAAAAA ATGGAAAAA A [5861]
#L1MdA_II . . . . . [5861]
#L1MdA_III . . . . . [5861]
#L1MdA_IV G. . . . .WWW. . . . . [5861]
#L1MdGf_I . . . . . [5861]
#L1MdGf_II . . . . .D. R. . . . . [5861]
#L1MdTf_I . . . . . [5861]
#L1MdTf_II . . . . .D. . . . . [5861]
#L1MdTf_III . . . . .G. . . . . [5861]
#L1MdA_V G. . . . .AAAW. W. . . . . [5861]
#L1MdA_VI . . . . .W. . . . .AWWWW. . . . . [5861]
#L1MdF_V . . . . .T. . . . .AAA. . . . . [5861]
#L1MdF_IV . . . . .T. . . . .AAA. . . . . [5861]
#L1MdF_I . . . . .W. . . . .AAA. . . . . [5861]
#L1MdF_II .CT. AT. . . . .AT. GG. . . . . [5861]
#L1MdF_III .CT. AT. . . . .AAA. . . . . [5861]
#L1MdN_I G. . . . .AAA. . . . . [5861]
#L1MdA_VII G. . . . .AAW. T. TTT. . . . . [5861]
#L1MdMus_I . . . . . [5861]
#L1MdFanc_I . . . . . [5861]
#L1MdV_I . . . . .WDD. . . . . [5861]
#L1MdFanc_II . . . . .AANH. NH. . . . . [5861]
#L1MdMus_II . . . . .WANAD. DDD. . . . . [5861]
#L1MdV_II G. . . . .AT. . . . .G. AAAT. TCT. . . . . [5861]
#L1Lx_I G. . . . .AT. . . . .G. AAAT. TCT. . . . . [5861]
#L1Lx_III G. . . . .AT. . . . .G. AAAT. TCT. . . . . [5861]
#L1Lx_II G. . . . .AT. . . . .G. AAAT. TCT. . . . . [5861]
#L1Lx_IV G. . . . .AT. . . . .G. AAAH. TVC. . . . . [5861]
#L1MdV_III B-. .AT. . . . .G. AAAT. BCC. . . . . [5861]

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