


```
121      130      140      150      160      170      180      190      200      210      230      240      250
|      |      |      |      |      |      |      |      |      |      |      |
      Bos_taurus_Rh1 CCTTTCTCCAACAAGACGGGGGTGGTGCAGCCCTTCGAGGCCCGCAGTACTACCTGGCGGAGCCATGGCAGTTCCTCCATGCTGGCCGCTACATGTTCTCTGCTGATCATGCTTGGC
      Atractus_reticulatus_Rh1 CCTATGTCAAACAAGACTGGCATTGTTCGGAGTCCATATGAATATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Chironius_bicarinatus_Rh1 -----TGTTCCGGAGTCCATTTGAGTATCCTCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCGTACATGTTTCTTCTGATCTGCCTTGGT
      Dipsas_petersi_Rh1 -----ACAAGACTGGCGTTGTTCGGAGTCCATATGAGTATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Echinantera_cephalostriata_Rh1 -----AACAAGACTGGCATTGTTCGGAGTCCATATGAGTATCCCCAATATTTATTTGGCAGATCCCTTGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Echinantera_undulata_Rh1 -----TCCATTTGAGTATCCCCAATATTTATTTGGCAGATCCCTTGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Erythrolamprus_aesculapii_Rh1 CCTATGTCAAACAAGACTGGCATTGTTCGGAGTCCATATGAGTATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Erythrolamprus_miliaris_Rh1 CCTATGTCAAACAAGACTGGCATTGTTCGGAGTCCATATGAGTATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Erythrolamprus_poecilogyrus_Rh1 -----
      Helicops_modestus_Rh1 -----AACAAGACTGGCGTTGTTCGGAGTCCATATGAGTATCCCCAATATTTATTTAGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Oxyrhopus_guibeii_Rh1 -----TGTTCCGGAGTCCATTTGAGTATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTTTCTGATCTGCCTTGGGA
      Philodryas_patagoniensis_Rh1 -----TGTTTCTTCTGATCTGCCTTGGGA
      Python_regius_Rh1 CCTATGTCAAACAAGACTGGTATTGTTCGGAGTCCATTTGAGTATCCCCAATATTTATTTGGCAGAACCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Sibynomorphus_mikanii_Rh1 -----ACCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Sibynomorphus_neuwiedii_Rh1 -----CCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Spilotes_pullatus_Rh1 -----ATTTGAGTATTATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCGTACATGTTTCTTCTGATCTGCCTTGGT
      Taeniophallus_persimilis_Rh1 -----AACAAGACTGGCATTGTTCGGAGTCCATATGAGTATCCCCAATATTTATTTGGCAGATCCCTTGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Thamnodynastes_strigatus_Rh1 -----ATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Tomodon_dorsatus_Rh1 -----TTGTTCGGAGTCCATTTGAGTATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Xenopeltis_unicolor_Rh1 CCTATGTCAAACAAGACTGGCATTGTTCGGAGTCCATTTGAGTATCCCCAATATTTATTTGGCAGATCCATGGAAATATTTCTGCCTTGGCTGCATACATGTTTCTTCTGATCTGCCTTGGGA
      Atractus_reticulatus_LWS TTTGTGTACACCAACAGCAACAATACCCGTGGCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Chironius_bicarinatus_LWS TTTGTGTATACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Dipsas_petersi_LWS TTTGTGTACACCAACAGCAACAATACCCGTGGCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Echinantera_cephalostriata_LWS TTTTCTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Echinantera_undulata_LWS TTTTCTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Erythrolamprus_aesculapii_LWS -----TATACCAATAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Erythrolamprus_miliaris_LWS TTTGCTTACACCAATAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Erythrolamprus_poecilogyrus_LWS TTTGCTTACACCAATAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Helicops_modestus_LWS TTTGCTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Oxyrhopus_guibeii_LWS TTTGTTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTCGTTGTGTGGCTCA
      Philodryas_patagoniensis_LWS TTTGCTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Python_regius_LWS TTTATTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGGTCATGGCTCA
      Sibynomorphus_mikanii_LWS TTTGTGTACACCAACAGCAACAATACCCGTGGCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Sibynomorphus_neuwiedii_LWS TTTGTGTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Spilotes_pullatus_LWS TTTGCTTATACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Taeniophallus_persimilis_LWS TTTTCTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACATAAECTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Thamnodynastes_strigatus_LWS TTTACTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Tomodon_dorsatus_LWS TTTGTTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Xenopeltis_unicolor_LWS TTTGTTTACACCAACAGCAACAATACCCGTGACCCCTTTTGAAGGTCCAAACTATCATATTCACCACGATGGGTCTACAACCTAACTTCACTCTGGATGGTCTTTTGTGTGTGGCTCA
      Atractus_reticulatus_SWS1 -----TTCCACTTCCAACCATCTTCATGGGCTGGTCTTTTGTGGCCGGG
      Chironius_bicarinatus_SWS1 -----TTCTTTGGCCGGG
      Dipsas_petersi_SWS1 -----GACGGTCCCCAGTATCACATTTGCGCCCATGTGGGCTTCCACTTCCAAGCCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Echinantera_cephalostriata_SWS1 -----CCAATTTCAAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Echinantera_undulata_SWS1 -----GGGTCTTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Erythrolamprus_aesculapii_SWS1 -----GACGGTCCCCAGTATCACATTTGCGCCCAAGTGGGCTTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Erythrolamprus_miliaris_SWS1 -----GACGGTCCCCAGTATCACATTTGCGCCCATGTGGGCTTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Erythrolamprus_poecilogyrus_SWS1 -----CCTTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Helicops_modestus_SWS1 -----GGTCCCCAATATCACATCGCACCCATGTGGGCTTCCACTTCCAACCATCTTCATGGGCTGGTCTTATTTGGCCGGG
      Oxyrhopus_guibeii_SWS1 -----CTTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Philodryas_patagoniensis_SWS1 -----
      Python_regius_SWS1 ---TACCTCTTTGAAAACATCTCCTCCGTGGGGCCCTGGGACGGTCCCCAGTATCACATTTGCCCCATGTGGGCTTCCACTTCCAAGCCCTCTTCATGGGCTTGGTCTTCTTTGGCTGGG
      Sibynomorphus_mikanii_SWS1 -----GGGACGGTCCCCAGTATCACATTTGCGCCCATGTGGGCTTCCACTTCCAGGCCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Sibynomorphus_neuwiedii_SWS1 -----GACGGTCCCCAGTATCACATTTGCGCCCATGTGGGCTTCCACTTCCAAGCCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Spilotes_pullatus_SWS1 -----CTTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Taeniophallus_persimilis_SWS1 -----TTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Thamnodynastes_strigatus_SWS1 -----CCTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Tomodon_dorsatus_SWS1 -----CGTGAGGCCCTGGGATGGCCCTCAATATCACATCGCGCCCATGTGGGCTTCCACTTCCAACCATCTTCATGGGCTGGTCTTCTTTGGCCGGG
      Xenopeltis_unicolor_SWS1 TTCTACCTCTTTGAAAACATCTCCTCCGTGGGGCCCTGGGACGGTCCCCAGTATCACATTTGCCCCATGTGGGCTTCCGCTTCCAACCAGCCCTTCATGGGCTTGGTGTCTTTGGCCGGG
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491      500      510      520      530      540      550      560      570      580      590      600      610
|        |        |        |        |        |        |        |        |        |        |        |
      Bos_taurus_Rh1  CCTGGCCATCGAGCGGTACGTGGTGGTGTGCAAGCCCATGAGCAACTTCGGCTTCGGGGAGAACCACGCCATCATGGGCGTGCCTTCACCTGGGTCATGGCTCTGGCCTGTGCCGCGCC
      Atractus_reticulatus_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Chironius_bicarınatus_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGTAAGTTCGGTTTACCAGAACTCAGCCATCATGGGACTGTCTCTCACTTGGATCATGGCCTTGGCTTGTGCTGCTCC
      Dipsas_petersi_Rh1  CCTGGCTATAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Echinantera_cephalostriata_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Echinantera_undulata_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Erythrolamprus_aesculapii_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCGCGGGAGTGTGCTTAACTTGGATCATGGCATTGGCTTGTGCTGTTCC
      Erythrolamprus_miliaris_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCGCGGGAGTGTGCTTAACTTGGATCATGGCATTGGCTTGTGCTGTTCC
      Erythrolamprus_poecilogyrus_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCGCGGGAGTGTGCTTAACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Helicops_modestus_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Oxyrhopus_guibeı_Rh1  CCTGGCTATAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTCACTGAAACTCAGCCATCGTGGGGTATCCCTTCACTTGGATCATGGCTATGGCTTGTGCTGCTCC
      Philodryas_patagoniensis_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Python_regius_Rh1  CCTGGCTATAGAAAGATATGTAGTGGTGTGTAAGCCCATGAGCAACTTCGGTTTCACTGAGACTCATGCCATCATGGGAGTGTGTTTACATGGATCATGGCCTTGGCTTGTGCCGGTCC
      Sibynomorphus_mikanii_Rh1  CCTGGCTATAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Sibynomorphus_neuwiedii_Rh1  CCTGGCTATAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Spilotes_pullatus_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGTAAGTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCCTTGGCTTGTGCTGCGCC
      Taeniophallus_persimilis_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Thamnodynastes_strigatus_Rh1  CCTGGCTGTAGAAAGATATGTAGTAGTGTGTAAGCCCATGAGCAACTTCGGTTTACCAGAACTCAGCCATCATGGGAGTGGCCTTCACTTGGATCATGGCATTGGCTTGTGCTGCTCC
      Tomodon_dorsatus_Rh1  CCTGGCTATAGAAAGATATGTAGTGGTGTGTAAGCCCATGAGTAAGTTCGGTTTCACTGAAACTCATGCCATCATGGGACTGGCTTCACTTGGATCATGGCCTTGTCTTGTGCTGGTCC
      Xenopeltis_unicolor_Rh1  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTGTTGGTGGTATTTTGTCTCCTGGATATGGGCTTCCCTGGACAGCACC
      Atractus_reticulatus_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTGTTGGTGGTATTTTGTCTCCTGGATATGGGCTTCCCTGGACAGCACC
      Chironius_bicarınatus_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTGTTGGTGGTATTTTGTCTCCTGGATATGGTCTTGGCCTGGACAGCACC
      Dipsas_petersi_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGACGCTAAAAATGGCTGTTGGTGGTATTTTGTCTCCTGGATATGGGCTTCCCTGGACAGCACC
      Echinantera_cephalostriata_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGGTTGGTATTTTGTCTCCTGGATATGGTCTTGGCCTGGACAGCACC
      Echinantera_undulata_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGGTTGGTATTTTGTCTCCTGGATATGGTCTTGGCCTGGACAGCACC
      Erythrolamprus_aesculapii_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGGTTGGTATTTTGTCTCCTGGATATGGTCTTGGCCTGGACAGCACC
      Erythrolamprus_miliaris_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGGTTGGTATTTTGTCTCCTGGATATGGTCTTGGCCTGGACAGCACC
      Erythrolamprus_poecilogyrus_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTGTTGGAGGTATTTTGTCTCCTGGATATGGGCTTGTCTCCTGGACAGCACC
      Helicops_modestus_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGCAATATCAAGTTTGATGCTAAAAATGGCTATGGTGGTATTTTGTCTCCTGGATATGGTCTTGTGCTGGACAGCACC
      Oxyrhopus_guibeı_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGTGGTATTTTGTCTCCTGGATATGGGCTTCCACCTGGACAGCACC
      Philodryas_patagoniensis_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGTGGTATTTTCTCTCCTGGATATGGTCTGCCATCTGGACAGCACC
      Python_regius_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCCCTTGTGTCGCTTGTGTCGCTGGATATGGTCTTGGACAGCACC
      Sibynomorphus_mikanii_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGACGCTAAAAATGGCTGTTGGTGGTATTTTGTCTCCTGGATATGGGCTTCCCTTGGACAGCACC
      Sibynomorphus_neuwiedii_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGTGGTATTTTGTCTCCTGGATATGGGCTTCCCTTGGACAGCGCC
      Spilotes_pullatus_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGTGGTATTTTCTCTCCTGGATATGGTCTTGGCTTGGACAGCACC
      Taeniophallus_persimilis_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGTGGTATTTTGTCTCCTGGATATGGTCTTGGCCTGGACAGCACC
      Thamnodynastes_strigatus_LWS  TATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCTATGGTGGTATTTTGTCTCCTGGATATGGGCTGGCGCTGGACAGCACC
      Tomodon_dorsatus_LWS  AATTTCCCTGGGAGCGCTGGTGTGTTGTGTTGCAAAACCTTTGGAAATATCAAGTTTGATGCTAAAAATGGCCCTTGTGTCGCTTGTGTCGCTGGATATGGGCTGGCGCTGGACAGCACC
      Xenopeltis_unicolor_LWS  CCTCGCCTTTGAGCGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCCATGCCAAACACGCGGTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCGATCCC
      Atractus_reticulatus_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGCTAGGGAACCTCCGTTTCAACTCCAAACACGCTGCTGGTAGTGGTGGCGACCACGTGGATCATGGAAATCGCGGTCTCCGTTCC
      Chironius_bicarınatus_SWS1  CCTCGCCTTCCGAGCGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACGCCAAACACGCGGTGGTAGTGGTGGCGACCACATGGGTCACTGGAGTGGGGGTAGCTATCCC
      Dipsas_petersi_SWS1  CCTYGCCTTTGAACGCTACATCGTGATCTGCAAGCCGATGGGGAACCTCCGTTTCAACGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTGTCCC
      Echinantera_cephalostriata_SWS1  CCTCGCCTTTGAACGCTACATCGTGATCTGCAAGCCGATGGGGAACCTCCGTTTCAACGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTGTCCC
      Echinantera_undulata_SWS1  CCTCGCCTTTGAACGCTACATCGTGATCTGCAAGCCGATGGGGAACCTCCGTTTCAACGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTGTCCC
      Erythrolamprus_aesculapii_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACTGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTATCCC
      Erythrolamprus_miliaris_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACGCCAAACACGCGGTGGTAGTGGTGGCAACCACGTGGGTCAATTGGAGTGGGGGTGGCTATCCC
      Erythrolamprus_poecilogyrus_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTATCCC
      Helicops_modestus_SWS1  CCTYGCCTTTGAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACGCCAAACACGCGGTGGTAGTGGTGGCAACCACATGGGTCACTGGAGTGGGGGTGGCTATCCC
      Oxyrhopus_guibeı_SWS1  CCTCGCCTTTGAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACGCCAAACATGCTCTGGTAGTGGTGGCAACCACGTGGGTCAATTGGAGTGGGGGTGGCTATCCC
      Philodryas_patagoniensis_SWS1  CCTTGCCTTTGAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAAYGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTATCCC
      Python_regius_SWS1  CCTTGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGCTTCAACTCCAAGCATGCTCTGCTGGTGGTGGTGGCCACGTGGGTCACTGGGGTGGGGTGTCCGTCCC
      Sibynomorphus_mikanii_SWS1  CCTCGCCTTTGAGCGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACGCCAAACACGCGGTGGTAGTGGTGGCGACCACATGGGTCACTGGAGTGGGGGTAGCTATCCC
      Sibynomorphus_neuwiedii_SWS1  CCTCGCCTTTGAGCGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACGCCAAACACGCGGTGGTAGTGGTGGCAACCACATGGGTCACTGGAGTGGGGGTAGCTATCCC
      Spilotes_pullatus_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGCTGGGGAACCTCCGTTTCAACTGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGATCATGGAAATGGGGTCTCCGTTCC
      Taeniophallus_persimilis_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGATGGGGAACCTCCGTTTCAACGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTATCCC
      Thamnodynastes_strigatus_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGATGGGGAACCTCCGCTTCAACGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGGTCAATTGGAGTGGGGGTGGCTATCCC
      Tomodon_dorsatus_SWS1  CCTCGCCTTTGAAACGCTACATCGTGATCTGCAAGCCGATGGGGAACCTCCGCTTCAACGCCAAACATGCTCTGGTAGTGGTGGCGACCACGTGGATCAATTGGAGTGGGGGTGGCTATCCC
      Xenopeltis_unicolor_SWS1  CCTCGCCTTTGAAACGATATGGTTCATCTGCAAAACCTTGGAAATTTCCGCTTCAACGCCAAACACGCGCTGCTGGTGGTGGCGGCCACGTGGGTCACTGGGGTGGGGTGTCCATCCC
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	611	620	630	640	650	660	670	680	690	700	710	720	730
Bos taurus_Rh1	CCCCCTCGT	CGTTCGGT	TCCAGG	TACATCCC	GGAGGG	GCATGC	AGTGC	TCTGCG	GGGATT	GACTACT	ACACG	-----	CCCCAC
Atractus reticulatus_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAAT	GATTATT	TATACG	-----	CCTATA
Chironius bicarinatus_Rh1	TCCTCTGA	TGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACG	-----	CCTATA
Dipsas petersi_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAAT	GATTATT	TATACG	-----	CCTATA
Echinantera cephalostriata_Rh1	TCCTCTRG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Echinantera undulata_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Erythrolamprus aesculapii_Rh1	TCCTCTGA	TGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Erythrolamprus miliaris_Rh1	TCCTCTGA	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Erythrolamprus poecilogyrus_Rh1	TCCTCTGA	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Helicops modestus_Rh1	TCCTTTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Oxyrhopus guibei_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Philodryas patagoniensis_Rh1	TCCTCTGA	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Python regius_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Sibynomorphus mikanii_Rh1	TCCTCTAG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACG	-----	CCTATA
Sibynomorphus neuwiedi_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACG	-----	CCTATA
Spilotes pullatus_Rh1	TCCTCTGA	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACG	-----	CCTATA
Taeniophallus persimilis_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Thamnodynastes strigatus_Rh1	TCCTCTGA	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Tomodon dorsatus_Rh1	TCCTCTGA	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Xenopeltis unicolor_Rh1	TCCTCTGG	TTGGAT	GGTCAAG	GATATAT	CCCAGA	AGGTAT	GCAGAG	CTCATG	TGGAGT	TGATTAT	TATACA	-----	CCTATA
Atractus reticulatus_LWS	ACCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Chironius bicarinatus_LWS	ACCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Dipsas petersi_LWS	ACCAATGT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Echinantera cephalostriata_LWS	RCCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Echinantera undulata_LWS	GCCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Erythrolamprus aesculapii_LWS	ACCAGTCT	TTTGGCT	GGAGT	AGGTA	CTGGCCCC	ATGGCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Erythrolamprus miliaris_LWS	ACCAGTCT	TTTGGCT	GGAGT	AGGTA	CTGGCCCC	ATGGCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Erythrolamprus poecilogyrus_LWS	ACCAATCT	TTTGGCT	GGAGT	AGGTA	CTGGCCCC	ATGGCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Helicops modestus_LWS	GCCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Oxyrhopus guibei_LWS	GCCAATCT	TCGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Philodryas patagoniensis_LWS	GCCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Python regius_LWS	ACCAATCT	TTTGGT	TTGGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Sibynomorphus mikanii_LWS	ACCAATGT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Sibynomorphus neuwiedi_LWS	ACCAATGT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Spilotes pullatus_LWS	ACCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Taeniophallus persimilis_LWS	GCCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Thamnodynastes strigatus_LWS	GCCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Tomodon dorsatus_LWS	GCCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Xenopeltis unicolor_LWS	ACCAATCT	TTTGGCT	GGAGT	AGATACT	GGCCCC	ATGGTCT	GAAAAC	TCTT	TGTTGG	TCCAGAT	--GTAT	TTCAGT	GGCAAT
Atractus reticulatus_SWS1	GCCTTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Chironius bicarinatus_SWS1	CCCCTTCT	TTTGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Dipsas petersi_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Echinantera cephalostriata_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Echinantera undulata_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Erythrolamprus aesculapii_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Erythrolamprus miliaris_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Erythrolamprus poecilogyrus_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Helicops modestus_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Oxyrhopus guibei_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Philodryas patagoniensis_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Python regius_SWS1	CCCCCTCT	TTTGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Sibynomorphus mikanii_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Sibynomorphus neuwiedi_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Spilotes pullatus_SWS1	CCCCCTCT	TTTGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Taeniophallus persimilis_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Thamnodynastes strigatus_SWS1	CCCCCTCT	TTCGGT	TTGGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Tomodon dorsatus_SWS1	CCCCCTCT	TTCGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC
Xenopeltis unicolor_SWS1	GCCTTCT	TTTGGCT	GGAGC	AGGTTT	CCTCCG	GAAGGG	CTGCA	ATGTT	CCTCG	GGTCCC	GACTGGT	TACACGGT	GGGTAC

731 740 750 760 770 780 790 800 810 820 830 840 850

Bos_taurus_Rh1 CATGTTCTGGTCCACTTCATCATCCCCCTGATTGTTCATATTTCTTCTGCTACGGGACGCTGGTGTACCCTCAAGGAGGGCGGCTGCCAGCAGCAGGAGTTCGGCCACCCTCAGAAGGC
Atractus_reticulatus_Rh1 TATGTTCCCTTGACACTTTTATCATTCCATTGATGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCGGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Chironius_bicarınatus_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCGGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Dipsas_petersi_Rh1 TATGTTCCCTTGACACTTTTCTCATTCCCTTTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCGGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Echınantera_cephalostriata_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGATTATCTTCTTCTGCTATGGTCGTCTTCTCTCGCGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Echınantera_undulata_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGATTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Erythrolamprus_aesculapıi_Rh1 CATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Erythrolamprus_mıliaris_Rh1 CATGTTCCCTTGACACTTTTGCACCTCCRTTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Erythrolamprus_poecılogyrus_Rh1 CATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Helıcops_modestus_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Oxyrhopus_guıbei_Rh1 TATGTTCCCTTGACACTTTTATGATTCCATTGATTGTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Philodryas_patagonıensis_Rh1 TATGTTCCCTTGACACTTTTGCACCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Python_regıus_Rh1 TATGTTTATTGTACATTTTGCATTCCATTGGTGGTTATCTTTTCTGCTATGGACGCTCTGTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Sıbınomorphus_mıkanıı_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCGGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Sıbınomorphus_neuwıedı_Rh1 TATGTTCCCTTGACACTTTTCTCATTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCGGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Spılotes_pullatus_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTACGGTCGTCTTGTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAGTTCAGCCACCACCCAGAAGGC
Taenıophallus_persııılıs_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGATTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAAGAAATCAGCCACCACCCAGAAGGC
Thamnodynastes_strıgatus_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Tomodon_dorsatus_Rh1 TATGTTCCCTTGACACTTTTGCACCTCCATTGACGGTTATCTTCTTCTGCTATGGTCGTCTTCTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Xenopeltıs_unicolor_Rh1 TATGTTCCCTTGACACTTTTATCATTCCAATGATAGTTATCTTCTTCTGCTACGGACGCTCTGTCTGCAGTGTAAAGAGGCTGCTGCTCAGCAACAGGAATCAGCCACCACCCAGAAGGC
Atractus_retıculatus_LWS CCTGATGATTACCTGTTGTGATAATTTCCCCTGAGCATCATCATTCTCTGTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Chırınıus_bıcarınatus_LWS CCTGATGATTACCTGTTGTGCAATTTCCCCTGAGCGTCATCATTATCTGTTACTTTCGCAAGTGTGGCTGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Dıpsas_petersı_LWS CCTGATGATTACCTGTTGTGATAATTTCCCCTGAGCATCATCATTCTCTGTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Echınantera_cephalostriata_LWS CCTGATGATTACCTGTTGTGCAATTTCCCCTGAGCGTCATCATTATCTGTTACTTTCGCAAGTGTGGCTGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Echınantera_undulata_LWS CCTGATGATTACCTGTTGTGCAATTTCCCCTGAGTGCATCATTATCTGTTACTTTCGCAAGTGTGGCTGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Erythrolamprus_aesculapıı_LWS CCTGATGATTACCTGTTGTGCAATTTCCCCTGAGCGTCATCGTTATCTGCTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Erythrolamprus_mıliaris_LWS CCTGATGATTACCTGTTGTGCAATTTCCCCTGAGCGTCATCGTTATCTGCTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Erythrolamprus_poecılogyrus_LWS CCTGATGACTACCTGTTGTGATAATTTCCCCTGAGCGTCATCATTATCTGCTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Helıcops_modestus_LWS CCTGATGTCTACTGTTGTGATAATTTCCCCTAAGCGTTATCATTATCTGTTACTTTCGCAAGTGTGGCTGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Oxyrhopus_guıbei_LWS CCTGATGATTACCTGTTGTGATAATTTCCCCTGAGCAATTAATTTATCTGTTACTTTCGCAAGTGTGGCTGGCTATCCGTGCGGTTGCGGCCAGCAGAAAGAGTCGGAATCAACCCAGAAGGC
Philodryas_patagonıensis_LWS CCTGATGATTACCTGTTGTGCAATTTCCCCTGAGCGTCATCATTATCTGTTACTTTCGCAAGTGTGGCTGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Python_regıus_LWS CCTGATGGTCACTGTTGCATAATTTCCCCTGAGCATCATCTGCTCTGCTACATGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCGACACAGAAGGC
Sıbınomorphus_mıkanıı_LWS CCTGATGATTACCTGTTGTGATAATTTCCCCTGAGCATCATCATTCTCTGTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Sıbınomorphus_neuwıedı_LWS CCTGATGATTACCTGTTGTGATAATTTCCCCTGAGCATCATCATTCTCTGTTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Spılotes_pullatus_LWS CCTGATGATTACTTGTGTGCAATTTCCCCTGAGCGTCATCATTATCTGTTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAAATCAGAATCAACACAGAAGGC
Taenıophallus_persııılıs_LWS CCTGATGATTACCTGTTGTGCAATTTCCCCTGAGCGTCATCATTATCTGTTACTTTCGCAAGTGTGGCTGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Thamnodynastes_strıgatus_LWS CCTGATGAGTACCTGTTGTGATAATTTCCCCTGAGCGTTATCATTCTCTGTACTACATAACAAGTGTGGCTGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Tomodon_dorsatus_LWS CCTGATGATCACCTGTTGCGTAAATTTCCCCTAAGCATCATCATTCTCTGTTACTTTCGCAAGTGTGGATGGCTATCCGTGCGGTTGACGCCAGCAGAAAGAGTCAGAATCAACACAGAAGGC
Xenopeltıs_unicolor_LWS CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAGTCAGCCACTACCCAGAAGGC
Atractus_retıculatus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAGTCAGCCACTACCCAGAAGGC
Chırınıus_bıcarınatus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAGTCAGCCACCACCCAGAAGGC
Dıpsas_petersı_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAGTCAGCCACTACCCAGAAGGC
Echınantera_cephalostriata_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Echınantera_undulata_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Erythrolamprus_aesculapıı_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Erythrolamprus_mıliaris_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Erythrolamprus_poecılogyrus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Helıcops_modestus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Oxyrhopus_guıbei_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Philodryas_patagonıensis_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Python_regıus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Sıbınomorphus_mıkanıı_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGAGCGGTAGCCGCTCAGCAGCAAGAGTCAGCCACTACCCAGAAGGC
Sıbınomorphus_neuwıedı_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGAGCGGTAGCCGCTCAGCAGCAAGAGTCAGTACTACCCAGAAGGC
Spılotes_pullatus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAGTCAGCCACCACCCAGAAGGC
Taenıophallus_persııılıs_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Thamnodynastes_strıgatus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Tomodon_dorsatus_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACGCGCGGCTCCTAGGTGCCCTCCGGGGCGGTAGCCGCTCAGCAGCAAGAAATCAGCCACCACCCAGAAGGC
Xenopeltıs_unicolor_SWS1 CCTTTTCATCTTCTGTTCATCATAACCCTGACCCTCATCATCTTCTCCTACCTGCAGTGTCTGCTGCCCTCCGGGGCGGTAGCTGCTCAGCAGCAGGAGTCAGCCACCACCCAGAAGGC

2011 2020 2030 2040 2050 2050 2060 2070 2080 2090 2100 2110 2120

Bos_taurus_Rh1 CTTTCATGACCATCCCAGCTTTCTTTGCAAGAGCTTCTGCCGTCTACAACCCCGTCATCTACATCATGATGAACAAGCAGTTCGGAACTGCATGGTCACCCTCTCTGCTGTGGCAAGAA
Atractus_reticulatus_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGATCACCACACTTTGCTGTGGAAAGAA
Chironius_bicarinatus_Rh1 CTTTATGACCATCCCACCTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAACTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Dipsas_petersi_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGATCACCACACTTTGCTGTGGAAAGAA
Echinantera_cephalostriata_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Echinantera_undulata_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Erythrolamprus_aesculapii_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Erythrolamprus_miliaris_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Erythrolamprus_poeilogyrus_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Helicops_modestus_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Oxyrhopus_guibeii_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGATCACCACACTTTGCTGTGGAAAGAA
Philodryas_patagoniensis_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAGACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Python_regius_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAACTGTATGATCACCACACTTTGCTGTGGAAAGAA
Sibynomorphus_mikanii_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGATCACCACACTTTGCTGTGGAAAGAA
Sibynomorphus_neuwiedii_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGATCACCACACTTTGCTGTGGAAAGAA
Spilotes_pullatus_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAACTGTATGATCACCACACTTTGCTGTGGAAAGAA
Taeniophallus_persimilis_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Thamnodynastes_strigatus_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Tomodon_dorsatus_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAATTGTATGCTCACCACACTTTGCTGTGGAAAGAA
Xenopeltis_unicolor_Rh1 CTTTATGACCATCCCAGCTTTCTTTGCAAGAGCTCTGCAATCTACAACCCAGTGATTTATATCGTAATGAACAAACAGTTCGGCAACTGTATGATCACCACACTTTGCTGTGGAAAGAA
Atractus_reticulatus_LWS GACAGCTTCCCTGCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Chironius_bicarinatus_LWS GACGGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Dipsas_petersi_LWS GACAGCTTCCCTGCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTACGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Echinantera_cephalostriata_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Echinantera_undulata_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Erythrolamprus_aesculapii_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Erythrolamprus_miliaris_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Erythrolamprus_poeilogyrus_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Helicops_modestus_LWS GGCAGCTTCCCTGCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Oxyrhopus_guibeii_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Philodryas_patagoniensis_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCTACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Python_regius_LWS GACAGCTTCTTGGCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Sibynomorphus_mikanii_LWS GACAGCTTCCCTGCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTACGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Sibynomorphus_neuwiedii_LWS GACAGCTTCCCTGCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Spilotes_pullatus_LWS GACGGCTTCCATACCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Taeniophallus_persimilis_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Thamnodynastes_strigatus_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Tomodon_dorsatus_LWS GACAGCTTCCATGCCCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Xenopeltis_unicolor_LWS GACAGCTTCTTGGCTGCCTTTTGGCAAAAAGCGCCACCATTACAACCCAATTATCTATGTCTTCATGAACAGACAGTTCGGCAATTGCATAATGC-----AG
Atractus_reticulatus_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Chironius_bicarinatus_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Dipsas_petersi_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTATAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Echinantera_cephalostriata_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGGCGCTGCATCATGGAACCGGTGTGCGGC-----AA
Echinantera_undulata_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGGCGCTGCATCATGGAACCGGTGTGCGGC-----AA
Erythrolamprus_aesculapii_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Erythrolamprus_miliaris_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Erythrolamprus_poeilogyrus_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Helicops_modestus_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Oxyrhopus_guibeii_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Philodryas_patagoniensis_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Python_regius_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGTTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Sibynomorphus_mikanii_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Sibynomorphus_neuwiedii_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Spilotes_pullatus_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTATAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Taeniophallus_persimilis_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Thamnodynastes_strigatus_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Tomodon_dorsatus_SWS1 CTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA
Xenopeltis_unicolor_SWS1 TTTGGTCACCATCCCAGCTTTCTTTGCAAGAGCTCCTGCGTCTACAACCCCATCATCTACTGCTTCATGAACAAGCAGTTCGGTCCCTGCATCATGGAACCGGTGTGCGGC-----AA

	212	213	214	215	216	217	218	219	220	221	222	223	224
Bos_taurus_Rh1	GEIALWSLVVLA	AIERYVVVCK	PMSNFRF	TETHAIMG	VAF	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGIDY
Atractus_reticulatus_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VAF	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGIDY
Chironius_bicarinatus_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	LSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Dipsas_petersi_Rh1	GEIALWSLVVLA	AIERYVVVCK	PMSNFRF	TETHAIMG	VAF	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGIDY
Echinantera_cephalostriata_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGVDY
Echinantera_undulata_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGVDY
Erythrolamprus_aesculapii_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Erythrolamprus_miliaris_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Erythrolamprus_poeilogyrus_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Helicops_modestus_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Oxyrhopus_guibeii_Rh1	GEIALWSLVVLA	AIERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGVDY
Philodryas_patagoniensis_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Python_regius_Rh1	GEIALWSLVVLA	AIERYVVVCK	PMSNFRF	TETHAIMG	L	CFT	WV	MALACA	AGP	PLV	GW	SRYI	PEGM
Sibynomorphus_mikanii_Rh1	GEIALWSLVVLA	AIERYVVVCK	PMSNFRF	TETHAIMG	VAF	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGIDY
Sibynomorphus_neuwiedii_Rh1	GEIALWSLVVLA	AIERYVVVCK	PMSNFRF	TETHAIMG	VAF	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGIDY
Spilotes_pullatus_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Taeniophallus_persimilis_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLV	GW	SRYI	PEGM	QCS	CGVDY
Thamnodynastes_strigatus_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Tomodon_dorsatus_Rh1	GEIALWSLVVLA	VERYVVVCK	PMSNFRF	TETHAIMG	VSL	TWV	MALACA	APPLI	GW	SRYI	PEGM	QCS	CGVDY
Xenopeltis_unicolor_Rh1	GEMALWSLVVLA	AIERYVVVCK	PMSNFRF	TETHAIMG	L	AFT	WV	MALACA	AGP	PLV	GW	SRYI	PEGM
Atractus_reticulatus_LWS	GITALWSLAI	ISWERFV	VCKPFG	NKFD	AKMA	VGGI	LFS	WIW	AS	SWT	APP	IFG	WS
Chironius_bicarinatus_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Dipsas_petersi_LWS	GITGLWSLAI	ISWERFV	VCKPFG	NKFD	AKMA	VGGI	LFS	WIW	AS	SWT	APP	PMF	GW
Echinantera_cephalostriata_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	MGGI	LFS	WIW	AS	CA	WT	APP
Echinantera_undulata_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	MGGI	LFS	WIW	AS	CA	WT	APP
Erythrolamprus_aesculapii_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Erythrolamprus_miliaris_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Erythrolamprus_poeilogyrus_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	VGGI	LFS	WIW	AS	CA	WT	APP
Helicops_modestus_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	I	GIL	F	AWI	W	AS	CA
Oxyrhopus_guibeii_LWS	GITGLWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Philodryas_patagoniensis_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Python_regius_LWS	GITGLWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Sibynomorphus_mikanii_LWS	GITALWSLAI	ISWERFV	VCKPFG	NKFD	AKMA	VGGI	LFS	WIW	AS	SWT	APP	IFG	WS
Sibynomorphus_neuwiedii_LWS	GITGLWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	VGGI	LFS	WIW	AS	CA	WT	APP
Spilotes_pullatus_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Taeniophallus_persimilis_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	MGGI	LFS	WIW	AS	CA	WT	APP
Thamnodynastes_strigatus_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	I	GIL	F	AWI	W	AS	CA
Tomodon_dorsatus_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	VGGI	LFS	WIW	AS	CA	WT	APP
Xenopeltis_unicolor_LWS	GITALWSLAI	ISWERV	VVCKP	FGNK	FD	AKMA	LGGI	LFS	WIW	AS	CA	WT	APP
Atractus_reticulatus_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Chironius_bicarinatus_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Dipsas_petersi_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Echinantera_cephalostriata_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Echinantera_undulata_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Erythrolamprus_aesculapii_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Erythrolamprus_miliaris_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Erythrolamprus_poeilogyrus_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Helicops_modestus_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Oxyrhopus_guibeii_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Philodryas_patagoniensis_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Python_regius_SWS1	GLVTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Sibynomorphus_mikanii_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Sibynomorphus_neuwiedii_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Spilotes_pullatus_SWS1	GLVTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Taeniophallus_persimilis_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Thamnodynastes_strigatus_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Tomodon_dorsatus_SWS1	GMVGTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG
Xenopeltis_unicolor_SWS1	GLVTGWSL	AF	LA	FERY	IVICK	PLGN	FR	FN	AKH	ALVV	VVAT	TWV	IG

	241	250	260	270	280	290	300	310	320	330	340	350	360
Bos taurus_Rh1	ATTQKAEKEVTRMVIIMVIAFLICWLPYAGVAFYIFTHQGSDFGPIFMTIPAFFAKTS	AVYNPVIYIMMNKQFRNCMVTTLCCGKNPLGDDEASTVSKTETSQVAPA*											
Atractus reticulatus_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLA											
Chironius bicarinatus_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLVEDDTSV-GTKTETSTVSTVST											
Dipsas petersi_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVST											
Echinerantera cephalostriata_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Echinerantera undulata_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Erythrolamprus aesculapii_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Erythrolamprus miliaris_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Erythrolamprus poecilogyrus_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Helicops modestus_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Oxyrhopus guibei_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Philodryas patagoniensis_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Python regius_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVLNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Sibynomorphus mikanii_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Sibynomorphus neuwiedi_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Spilotes pullatus_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Taeniophallus persimilis_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Thamnodynastes strigatus_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Tomodon dorsatus_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVMNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Xenopeltis unicolor_Rh1	ATTQKAEKEVTRMVIIMVIAFLVWCWVPYASVAFYIFTHQGSDFGVPVMTIPAFFAKSSAI	YNPVIYIVLNKQFRNCMIITTLCCGKNPLAEDDTSV-GTKTETSTVSTVSTVSTVSTVST											
Atractus reticulatus_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLFGQES											
Chironius bicarinatus_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Dipsas petersi_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLFGKKVX											
Echinerantera cephalostriata_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Echinerantera undulata_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Erythrolamprus aesculapii_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Erythrolamprus miliaris_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Erythrolamprus poecilogyrus_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Helicops modestus_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Oxyrhopus guibei_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLFGKKV											
Philodryas patagoniensis_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Python regius_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Sibynomorphus mikanii_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Sibynomorphus neuwiedi_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Spilotes pullatus_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Taeniophallus persimilis_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Thamnodynastes strigatus_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Tomodon dorsatus_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLX											
Xenopeltis unicolor_LWS	ESTQKAEKEVSRMVMVMI IAY I ICWGPYATFFACFAANPGYAFHPLTASMPAFFAKS	ATIYNPIIYVFMNRQFRNCIMQLFGKKVDDGSEVSSSTRTEVSSVSSNSVSPA*											
Atractus reticulatus_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPI	DDSDVSX-XQKTXVSSASSCQVS										
Chironius bicarinatus_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DDSDAVX-XQKTEVSSASSCQVSP										
Dipsas petersi_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DESLSX-XQKTEVSSASSCQVSSX										
Echinerantera cephalostriata_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DESVDVT										
Echinerantera undulata_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DDSDVTX-XSK										
Erythrolamprus aesculapii_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DESVDVT										
Erythrolamprus miliaris_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DDSDVX										
Erythrolamprus poecilogyrus_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIME											
Helicops modestus_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DDSDVSX-XQKTEVSSASSCQVS										
Oxyrhopus guibei_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMEMVC-GK											
Philodryas patagoniensis_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACI											
Python regius_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMQTV	CG-LTEESDAGSSAQKTEVSSVSSSQVSPSSGAG---										
Sibynomorphus mikanii_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DESLSX										
Sibynomorphus neuwiedi_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DESVDVT-XQKTEVSSV										
Spilotes pullatus_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DDSDVT										
Taeniophallus persimilis_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DESVDVT										
Thamnodynastes strigatus_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DDSDV										
Tomodon dorsatus_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPM	DDSDVTX-XQKTEVSSVSSCQVSP										
Xenopeltis unicolor_SWS1	ATTQKAEREVSRMVMVMVASFCICYVPAALAMYMVNNPHHGFDLRLVTI	PAFFSKSSCVYNPIIYCFMKNQFRACIMETVC-GKPL	TESDAGSSVQKTEVSSVSSCQVSPSSGAGTTG										