**Supplementary File 2**

* DNA sequences of neuronal and endodermal genes utilized in *in situ hybridization* or *hybridization chain reaction* gene expression studies
* Aromatic amino acid hydroxylase gene tree

>IpulchraChAT\_KY709762.1

TATTACTTTTAAATAGATTAATGAGCAAAGAGAACATCGGAGACCAAATCTGCGACTATGACGATCATCAGAACTTTAGCACGACCAATCACCTGTACCAGCTACGTCTGGGGAAGCAGCCAGTGCCAGATCTGGCGTCTTCAATCGAGGACTTCTTGCTTCACAGCGGGGCGGTGCTCAGCCAATCGGATCAAAGCACGCTGACCCAACTGGCACATGAATTCGTCGCCACTAGAGGGCCTTCTCTCGTGGAGAAACTGGCCAACTCGACCCACGGACCAACAGCCAACTGGAGTTACGGGCCGTGGGTGCGGGACATGTACCTGCGGTGCCGGAAGCCGCTGCCGGTGTACTCGAACCCGGCCATGCTGGTGGAGAGGCGGGCGTTCCTCACCGAGAACCACTGGCTCCGGTTCGCCGCTCGGGTGGTGTGCGAGCTGCTCCGCTACCGGCACATGCTCATCACCGGGAAGACGGGTCTTGAGTACGTGCGGAGTCTGGAGTTCGCGGGCGGGAAGCAGCCACTGTGCATGGAGCAGTACCGGTCCCTCTTCACCTCGTGCAGACGGCCGGGCGAGGAGCTCGACTCCCAAGTCAGGTTCCCCGACAACTTCTCGCTCGCCCACCGGCTCCACGTCATCGTCGCCTTCAGGGGCAAGTTGTACACGGTGAGGCTGGAAGCAGCGGATGAGGGAGTGCCGGACTTGGAGCCACTCGCGGCTTCCCTGAGAGAGATTGTCCACGCCGGGCGCAATGCCGCGATGGGTGTCGGCGACGAGCTGGGCCTGCTCACCGGCGCTCCCAGACATGAGTGGGCTCACGTCTACAACTCCCTCTGCAAGGTGGAGAAGAATGCGTGCAATATCCGGGAGCTGGAGTCGGCAGTGTTGGTCCTCTGTCTGGACGAGGAGGCGGACGGAAGTCCTGATGACTCACGGGACCTGACCCGACTGCTGACGGGCGGGGAGCACAGTCAGTCCAACCGCTGGTTCGACAAGGCCATCCAGGTGATCGTGGGGTCAGACGGGCTGCTCGGGGTCAACGTGGAGCACTCGACCGCCGAGGGGGTCGTCCTCGTGAGGATCATGCAGCAGGTCCTCGCTAATCTGCAGGAAGAGACTTGCACGGAGACGAACGGTGACTGTAACGGTGTTGACGGAAACAAAGTAATCCCTCTAGACTGGGTTATCAACGCCAAACTAGCGTCCAAGATTAAAGAAACCGCTGCAAATCAGAAACGGCTACTCAACGATCTCAGTATCAGAAAAGTAGTTCTAGATGACATTGGAAAGAGGTGGATCAAGAGCAGAGGCGTCAACCCCGATGTGTTCGTTCAAATCCTGCTGCAGCTCACATATCACGCATGTCACGGGCAGCTGTGTCACACCTACGAGAGCGCCTCCTTGCGGCGGTTTGAGCGCGGCAGGGTTGACAACATCAGGTCGAATAACCCGGCTGTTCTTCGACTGGCCCAGGCAATCAGCCAACACAGAGGCGAGGAGGAGCTCCAGGCTCTCTTCCACGAGGCCTGCAGATTCCAGCAGCGCACCATCGACAAGGTTATCTCGGGGCACGGGTGCGACCTGCTGCTGCAGAGCCTGAGAGAAGAGGTCACGGCCGAAGGAAGGAGAGATGCGTTCCTCCACAGCGATCTGTTCACTCAGTGCTGGTCCTTCGACCTTGGTACCAGTCAGGTGACGATGCCGGAGGGTCCGTTCATGTTCTACGGACCGATGGAGGCGTCGGGGTACGGGGCGTGCTACAACCTGCTGGAGGACCGCGCCGTCCTCTGCCTCTCCGCCCTCCAGTCCTCCCCGAGGAGCAGCCTCAGTCTCTTCTGCACCAACCTCACCAGAGTCAAAGACACCCTTCTCTCTATCACATGACCGTACAGCAATTACCGTCCTCCAATATTGCATTATTGTACCGAATATTGTAATCAATTTATATGTTCGCGCAATCTTGTCAAGCGCAGTCTACTTTGATCTATTTTTAGCAATTGATGTTCAATCTACCGTGCGGAAATTAAG

>IpulchraVAchT\_KY709762.1

GTCCGGACTCATCTGGCCGTCTTTCCCCGCTGACAGGAACTCAATGTCGTCATACGAGGGCATACCGGGCGATAGCGGCGGCGGCGGTGGGGCGGGTTCCGCCAATCAGGTGCCGCGGTCGGAGTCGGAGCCGCTGATGGAGGCGTACCGGAAGTTCTCGGCCAAGCTGGAGGAGCCGAAGCTGCAGCGGTTCCTGGTGCTGGTGATCGTGAGCGCGGCGCTGCTGCTGGACAATATGCTGTACATGGTCATCGTGCCCATCATCCCCGACTTCCTCCGCAAGCACGACGCGTGGCACGTGCAGACCGAGTACAGTGTCAAGACCGAGCTGGTGGACGGCCAGTGGCGCAACACCACCTACGCCACCGACGTCAACTACGAGGGCGAGGACACCAGCCTCGGCTTCCTGTTCGCCAGCAAGGCGTTCATCCAGCTGATCGCCAACCCCGTGTCCGGCACCCTGATCGACCGGGTGGGCTACGAGTTCCCGATGGTGTTCGGCCTGTTCGTCATGTTCGTCTCCACCACCATCTTCGCGTTCGGGGAGACTTACACCTTCCTCTTCCTCGCCCGCTGCATGCAGGGCATTGGGTCCGCGTTCGCCGACACCGCCGGGCTCGCGATGATCGCGGACCGGTTCACGGAGGAGCGGGAGCGGAACCGGGCGCTGGGCATCGCCCTGGCCTTCATCAGCTTCGGCTTCCTCTTCGCCCCGCCGTTCGGGGGCGTGCTCTACATGCTGGGCGGGAAGGAGGTGCCCTTCCTCTGCCTCGCCTGCATCGCCCTCCTCGACGCCGGCATGCTCCTCCTCGTGTCCTCCACCGAGACCCACAAGCGCACCCAGTCATCCAAGGGGCACTCGGCGCAGGCGCACGCGCCGATATACAAGCTGCTGCTGGACAAGCACGTCATCGTCATCTCGTGCGCGCTCATCATGGCCAACGTGAGCCTCGCGTTCCTGGAGCCGACCATCGCCACCTGGATGGAGGACTACATGGACGCCGACCAGTGGCAGCAGGGCATCATCTGGCTCCCCGGCTTCTTCCCACACATCCTCGGAGTGTACATTTGCGTGAAGCTGTCCAACAAGTATGCGCGGACACAGTACATATACGCGGGAGTGGGTCTGATCATCATCGGAGTGTCCACCTGCTTCATACCCGCCTGCTCCACCTTCACCCTCCTCATCCTGCCCATCTGCGGCATGTGCTTCGGCATCGCCCTCGTCGACACCGCCCTCATTCCCGCACTCTCATATCTCGTCGACATCCGGTACACGTCAGTGTACGGGAGCGTGTACGCGATC

>IpulchraVMAT\_KY709764.1

CTGGCTTTTGTCCCCGCTTTCTCCTCCATTCCAGCTGCACTCCCGACAAAGGCTGGTACCACACAGTGCGCAACGAGTGGCCCGACTCCACTCGTGCATGCCATCATGTATTACCAGTCAACCCACGGTCCCGTCCCCGATACCGACCAACACTTGGATGACTCATCGTTCGTCCACGTCGACTGCGCCCCCTTCCCGCCCCCTCCGGAGTACAGCGGGGGCATCTCGTTCGGGGGGATGCCCAGCCTCGACTGCAGCTGCTGGTCTCCGCAGTTCTGGAGCGAAGTGCGCAGCTCCAAGCGACTGCTCATATTCATCGTTTTCATAGCTCTTCTGTTAGATAACATGTTGCTCACCAGTGTAGTACCGATCATACCGGACTACCTGTACAAGTTGGAGCATCCGGATGGGCCGATCCAGGCACCACAGCCTCCACTTGCCCAACAGCCATTCTACGTGAACGAGAGTGTGGAATACACCGACTACTTCTCCCCGGGCGCCGACCAGTCCAAGCCTGGCCCCCCGTCTGCCCATTACTCCAGCTCGTCCGCCTACGCAGATGAACTGAATAAAGAGAACATCCGGGTCGGGCTGCTGTTCGCTTCCAAGGCCCTAGTCCAGTTGGTCACCAATCCATTCGTCGGCATCCTTACCAACAAGGTTGGGTTCAGTCTGCCGATGTTCGTGGGCTTCGTCATCCTCATCCTGTCGACCGTCATGTTCGCGTTCGGGGAGTCGTACTCGGTGCTGATGGTGGCGCGGAGTCTGCAGGGCATCGGGTCGTCCTGCTCCTCGGTCGCGGGCATGGGCATGCTGGCGGAGCGATTCCCCGACGACGAGGAGCGCGGCAACGCCATGGGGGTCGCCCTCGGGGGCCTCGCCATGGGCGTCCTCATCGGGCCGCCGTTTGGGGGCTTCATGTACCAGTTCGTGGGGAAGCCGGCGCCGTTCCTGGTGCTGGCGGCGGTGGCCCTCCTGGACGGCACCCTCCAGCTCATCGTCCTCCGCCCCGGGATGAAGACCGAGCACCAGCCCCGCGGAACCCCCCTCACCACCCTCCTCAAGGACCCTTACATCCTCATCGCCGCCGGCTCGATAACATTCGCGAACATGGCGATCGCCCTGCTGGAGCCAACACTCCCCATATGGATGATGGAGAACATGAACTCCGAAAAGTGGCAGCTCGGGGCTGCATTCTTGCCAGCCAGTGTTTCCTATCTCATCAGCACCAACATAAACGGGCCTCTGACAACAAAGGTCGGAAGGTGGATCTCGTCTCTCATCGGGATGGTCATCGTCGGAATCTGCATGATGCTGTACCCTCTTGCCTCCACCATGAACGGGCTGATAATCCCGGGCTTCGGCCTGGGCTTCGCCATCGGAATGGTGGACGCGTCGATGATGCCAATGATGGGGTACCTGGTTGACCTCAGGCACGTGTCGGTGTACGGGAGCGTGTACGCGATCGCGGACGTCGCGTTCTGCGTGGGTTACGCCGTCGGGCCCGCCATGAGCGGCTACATCGTCGAGGGCATCGGCTTCCCATGGCTAGTCCGCATCATCGCCATCGTCAACATACTATTCGCACCGCTGCTCTATTATCTGAAGGAACCGCCCACTGGCAAAGAAGAGACCCAGAACCTCATAGAGACCAACGAAGATCAGTATGCGGGAAAGTACCGTCGAGCTGACGGCTACGCAACCCTCGAGGAAGAATAACTGAAGACCCTTTCAATTATATCATAGTTGTCTATCTTGTAATTAACGAATGCATAAAATCCAGGAG

>IpulchraSyn\_Ipul.rna.tri.10721.1

GGCATGGATATGTCAGGAACCTCTGACCCTTACGTCAAGGTCTACCTCCTGCCCGACAAGAAGAAGAAACAGGAGACCAAAGTACACCGCAAGACACTCAACCCCATCTTCAACGAAACCTTCAAGTTCAAGATCCCGTTCGCGGAGATCGGGGGCCAGACTCTGGTCCTGTCGGTGTACGACTTTGACCGGTTCTCCAAACACGACATGATCGGAATGCTCAAGATCAACCTCAACTCCATCGACCTCGGCAACACGTACGAGGCCAACAAGGAGCTCAACCCGCCCGACGACGACAAGGAGTATCTGGGTGACCTGTGTTTCTCGCTTCGTTACGTGCCCAAGGCGGGCAAGCTGACCGTCAACGTGCTGGAAGCCAAGAACCTCAAGAAGATGGATGTCGGCGGCCTCTCTGACCCCTTCGTCAAGATCGAGCTCATGCAGGCTGGGAAGAGACTGAAGAAAAAGAAGACGACGATTAAGAAGCGGACTCTCAACCCGTACTTCAACGAAAGCTTCCTATTCGAGGTTCCCTTCGAGCAAATCAGCAAGACAGAACTGAGGATAACAGTGTACGATTACGACAAACTGGGCAGCAACGACGCCATCGGGCTCATCCACGTCGGCTACACGGCCAGCGGGGCCGGATTACGTCACTGGACCGACATGATCAACGCGCCTCGTCGACCAATCGCGCAGTGGCACACGCTTCAGGAG

>IpulchraTH\_KY709765.1

AGGTTTGGTACCCGAAGAGCGCCGAGGACCTCAACCGCTGCCGCAACATCCTCAGCTCGGTCGAGCCCGACCTGGACAAGGATCACCCCGGGTTCAGTGACGCGAAATATCGAGCTAGACGATCCGAAATTGCGACTATTGCTCTCAGCTTCAGACATGGCGGGGAGATTCCCCGAGTCGAGTACACAGAGGTGGAGGTGGGGACGTGGCGGGAAGCGTACGAGAACCTCACCGAGCTGCATGAGTCACTGGCGTGCGAGGAGTACAAGACGGCGTTCAAGCGACTTGCACACGACCGGGTCATCAAGCCGGACGAGATTCCGCAGCTTCAGGATTTGTCCGATTATCTGACCGAGAAGACGAACTTTCGGCTGTGTCCAGTGGCGGGGCTGGTGGCTGCCAGAGACTTTCTGGCATGTCTGGCGTTCCGGGTGTTCCCCTGCACCCAGTACATGCGTCACCACGCCGCCTCCATGCACTCCCCTGAACCGGACCTGATCCACGAGGTGCTGGGTCACGTGGTGATGTTCACCAACCCGCTGGTCGCGGACTTCTCCCAGAAGATCAGACTGGCGTCCCTGGCCTTGGTCCCAACTGATATCCAGGGTCTTGAGTGGTGTCTCTCCAGGGACCTGATCCACGAGGTGCTGGGTCACGTGGTGATGTTCACCAACCCGCTGGTCGCGGATTTCTCCCAGAAGATCGGGCTGGCGTCCCTCGGCGCCTCGGACGACTTCATTCAGAAGCTCGCTACTCTATATTGGTTCACGGTGGAATTTGGACTGATCGAAGAATCGAACGGGTTAAAGGCTTTTGGGGCCGGTTTGCTCTCTTCCTACGGAGAACTCGTGTTCGCGGTTTCTGACGAGCCCGAGCATCGTGAGTTCTTCCCAGAAGAGACAGCGGTTCAAGCTTATGACGATTACAACTACCAGACAACTTACTTCGTCGTTAAAAACTTCAATCAGATGACTCAAAAATTCACGAAATACATCGAAGACTACAAGCAATGAATGTTCAAACATAGTCAAAAACCGCATGAGCCAGGCATGGGGCAAGACCATGTATTTCGAAAAACACGCATTCCAATAAAATATTCAATTCGATTGTCC

>IpulchraTpH\_KY709766.1

ATTCCCCTTTAAATCCTCGCTCCGGACATTCCCTGTATTTAATAATTTCAAATAGTAATTATTCAGTCCTCCGCTAACCTTCGGCGCTATCGGCCTTTCTTTCTTCTCAATAATTGCAACAATTTGGGAGACTAGCTCAGAATGTATTACGTGAGAAGGAAGTACCTGTTGGATCACTACTCGGCTCCGGAGCACGGCAAGCTTTCGCTCACCAACAACTCCCTGAGACGGAAGCGGGGGGCCTTCCGCTCGGGAGGCACCAAGTCTGGAAGTTTCCAGCTGAGCCTGGAGGCGAACTACGAGGACGCGAATGAGAAGAGCCACTGCGCGGCTGTCATCGTCACCGAAACCTCGGGAGTCGACCAACTCATGGACGTCATGCAGGTCTTCAAGCGCAACGACATAAAGATTAACCACATCGAGTCACGCAAGCCAAAGAACGACGATTCAAAGTCTTCGTCGATTTCTGAGTTCTACGTGGACCTCGAGGGCGAACCAGCAGCTCTTCTGATCGCCATCAACAACCTCAAGAGCAAAGTCAAGGAGTTCACCTTCGGGGAGAAGAGTCCTCTCGTCACTGAGAAGCCTGGAGTGGAGGAGTTGGGAGACGTACCTTGGTTCCCGCGGCGGATCGCCGATCTGGACAAAGTATCCAACCGCGTGTTGATGTACGGAGATGCTCTGGACGCCGATCATCCCGGCTTCAAGGACCCCGTGTACCGGGAACGGAGGAAGATGTACGCAGACATCGCCTACAACTACAAACAGGGGGAGCGGATCCCGCGGATCGAGTACACGGAGCAGGAGAAGGAGACGTGGCGGACGATATACCGGGAGCTGAACCGGCTCTACCCGCTGTACGCGTGTCGCGAGTTCCTGGTCAACCTCCCGCTGCTCCAGCTGTACGCCGGATACAGCGAGCACTGCCTGCCCCAGCTCGAGGACGTCAGCTACTTCCTCAGCGAAAAGACGGGGTTCGTGTTACGGCCGGTGGCGGGCTACCTCTCATCCAGGGACTTCCTGTCGGGGCTGGCGTTCCGTGTCTTCTACTGCACCCAGTACATCCGCCACCACAAGGACCCCTTCTACACACCCGAGCCAGACTGCTGCCACGAACTGCTGGGTCACGTGCCGATGCTGGCGGACCGCAGCTTCGCCGCCTTCTCCCAGGAGATCGGACTGGCCAGCCTCGGCGCCTCCGATGAAGAGGTCGAGCGACTGTCCAAGCTGTATTTCTTCACGGTGGAGTTCGGGCTGTGCAGGCAAGACGGGAAGGTGAAGATCTACGGGGCGGGACTGCTGTCCTCGATCGGGGAGCTGAAGCACGCAATGGAGCACACGGAGAAGCAACGGGACTTCTCCATGAACGCCGTTATGGAAATGGAGTGCAAGATCACCACCTTCCAGGACGGCTACTTCATCAACAACAGCTTCGAGGTCGCCAAGAACGAACTGAGGAACTACGCGGCGTCGATCGACAGACCGTTTCACCTCCGCTACAACCCGAACAGTCGGTGCGTCGAGACCCTCATCACCCAGAGGGAGCTGCTGGCCGCTCTCCAGGAGACCAAGCAGGAGATGACGCAGCTGGTGGACGCAATGGCGCGGCTCAACAACCGGCAGCAGGAGTCCATCATCCCCGAGAGCCGGTGGGACGCTGTGATTGGCTCGCTGTGCCGCCGCCGGGTGTCCAACGACGACGACATCCCCGAGGAGGAGAGCCCGTGCAACGGCGGCGGCATCGCCAACGGCGCCTGAGTCATGGATGACGGCTCATGAGAACGCAGATGATCATATCAATGACTCATATATCGCATACTTGGTCATACAGGCTTCATAAGTTTCAGGCAATCGCAATTTCGTCTCATAAAATGTCAGGTGTCCATCTAACAGAATGATCCAACGCATGATCAGAGGGATTGAAATGCTAGTACAATAATAAGCACAACTCTGTATACATATGCAATTTATCTGTTCA

>HmiamiaGad-1\_MT657938.1

GTTTTGAAAGACAATTTTGTGACGAGTGAAAAAAAATTCAATAGACATGTCTGTTGAAAACGTAGTACCAATCAACCGTTTACTGGATGTATCCAGTGTAAAAAGCAGCGCCCTACTGCTGCTGGACGAAGCTCAAGAGTCCAAGGTGCTGAAATCAAAAGATAGAGTTTGCGGTAACACCTCTCTCTCCGCCAAGCAGGTATTATTTGAAAATCAACCGGAAGAAAAGGGAGAAGAAGAAATTAAGCGCCGATCAGTTCTTCGTAAAATGAAGAGCTGTTCCAGCAAATATGATGATGTGTTTGGCACGAGAAATGATTTACGTCGACAATTGAGCCAGGCTAATCAGATGCTTGAAGAAACTAACATTGCAAGAAGACGATTGGACAAGTTAAATATTGATTTCAGCAAGAAATATGCAAAAGAATTGTTACCAAATGAGGCAAATCCGCCAACAAATACTGTTGATTTTCTGAGAGAGGTGATTGAAGAACTCTTTGAGTATGTAAGGCAATCACATGATCGCAATGAACCAGTGCTGGAATTCCACCACCCTATGGAATTGAAAGGGAATTTAGATTTAGAGGTTCCTGAAGGCCCCGAGACTTTGGCGCAGATTTTGAATGACTGTCGTGAGGCTTTGAAATATGCAGTGAAATCAGGTCATCCAAGATTTTTTAATCAGCTTTCGAGTGGGATGGATGTTGTATCTCTTGCTGGCGAATGGTTGACATCAACTGTTAATTCAAACATGTTTACGTATGAAGTATCGCCGGTGTTTGTTCTCATGGAACGAATTGTTTTGAAAAGAATGCGGGAAATCATCGGTTGGGCAGATGGTGAAGGAGATGGCATTTTTGCTCCAGGTGGGACGATCGCTAACTTATATGCTGTTCTCGCTGCACGTCATAAATATTATCCTGAGATCAAAAGTAAAGGAAGCCTGGCTCAAAGTCAGCTGTGCATGTTTACATCGAGGCATGCTCATTATTCGCTGAAGAGTGCTGCGCATATAGTTGGTATTGGCACTGACAATTGCATTACAGTGGAAACCGACGGAATCGGAAAAATGCGTCCTGATGATTTGAAAGCTAAAATTAGCAAAGCTAAGGACGAGGGAAAAGTACCATTCCTGGTGTCATGTACAATGGGAACAACCGTAGTTGGAGCATTTGATCCTATTACGGAGATTGCTGATATTTGCGAAGAACACAACCTGTGGCTTCATGCTGACGCTGCTTGGGGTGGTGGTGCATTAATGAGCAATAAATGGAAACATCTTTTGGATGGCATAAATAGAGCTGATAGCGTTACTTGGAATCCTCACAAAATGATGGGTGCAAGTTTACAATGTTCTGCCATCTTAGTCAAAGAAGATGGAATTCTTGAGAGTTGCAACGCCATGCATGCGTCTTACTTATTTCAAAGAGACAAGCACTATGATATAAGCTATGATACCGGAGACAAAGCAATTCAATGTGGAAGGCATGTCGACATCTTCAAACTATGGCTAATGTGGCGTGCAAAGGGTAGAGTTGGCTTTGAATACCATATGAACCATATGATGGATTTGAAGGCGCATTTGATTAAACTTATCAAAGAAACCGAAGGCTTTGAATTAGTATTTGAAAACCCTGAATACGTCAATGTCTGTTTCTGGTATATTCCACCTTGTCTCCGAAAAAACGCCAAAGGTCCGCAACGTGATTTCGTTGTTAACAAAGTCGCTCCATTTATTAAAGCGCAGATGATGGACAAAGGAGACTTGATGGTGAGCTACCAGCCACTGGATCAATACCCAAATTTCTTTCGGATGGTGATATCAAACCAAGCGGCAACGATGGATGACATTCAATTCGTAATTACTCGTATTGAAGAATTGGGAAAGACGTTCCGTCTCGACTAAATCAATCAAATATTCATGTAGTGGACATTGTGCGCACGTTGTCTTAGTTTATAGAATTACTCAAATAACCTGATTACATGTGCACTGTGTAATTTAGTCTTAAAGTGACTAGTTTGTAATCAGGCGTAGTTTGTATTCCAATTGCAATTAAAAATAAAATAAATAATTGTGCAATGAAAGGAATTTATGATGGTGCTACACGAAAAAGTGAGTCTATTTTGTTAATATGGAAAATGTTTAATGGAAAACATATGTTAAAATAGAAGTAGTTATGAATTTTT

>HmiamiaTpH-1\_98024900

ATTGAAACACGTAAGAGTTCAAATGATGCTAATGAAGTAGAAGTGGTATGCCAAGTAGAAGGCATAAAAGAATCTGTAACCGCTGCATCCAGTAAGATAAAGTTATCATCTTTGGTTGATACCAATTCTGAAAAAGCCTTATCTAGTAATGATAATGAGGATTATCAACATGTTTGGTTTCCCAGTAAAATTTCAGAACTGGACAAGGTAGCTGACCGCATTATTGAAGTTGAAAATGTCATGGAAGAGGATTGTGAAGGATGTTCGTATCCTGAATACATGAAAAGACGTGCAATGTTTGCCAATATTGCTCTCCATTACAAGCAAGGAACACCAATTCCATTAATCGACTACCTCGATTCAGAAGTAAACACTTGGAGAGTAGTTTATAAGAAACTTCAGAGTCTCTATGCAAAATATGCATGCAAGGAGTATCTGACTAATGTCCGATTATTATCCCAGCATTGTGGATACAATGAGGACAATATTCCTCAATTGCAGCACGTCAGCCAATTTCTTAAAGAGAGAAGTGGATTCACACTACGTCCTGTTGCAGGTTATTTATCAGCTCGTGATTTTTTGTCGGGATTGGCATTCAGAGTTTTTAATTGCACTCAATACATACGTCCTCCTTCAAAACCATTTTACACACGAGAACCCGATTGTGTCCATGAACTTTTGGGACACATGCCCCTTTTGGCTGATAGAATGTTTGCAGAATTTTCACAGGAGATTGGCCTGGCTAGTCTTGGTGCTTCAGATGATGAAGTTCAGAAATTAGCAAGTCTGTATTTCTTCACAGTCGAATTCGGACTCTGTCGTCAAGAAGGCAAAATAAAAGCGTATGGAGCTGGTCTACTATCGTCTGCAGAAGAATTTGAGATGGCAGTGACAACTCCAGAGAAGCAACGTGAATTTAATTTGAAACAAATCATGGAAATGGAATGTAAGGTGACTACCCATCAAGACTACTACTACATCACGAATTCATTCGACGAAGCCATTCGAAAGCTGCGGGAGTTCACGACTAGTATGAAACGGCCATTCGGCGTGAGATATGATCCGTATACTCAAAGCATTCAGAC

>CmacropygaSix3/6\_Cmac.rna.tri.8155.1

ATCACAAAGAAATTCAACTAAGCGCTTCTTTGGTCTAAATCTAAATCTAAATACATTATAAATAGACTTCTTGATTTTCAGAAGAGCAGCCGCTAAAAATTCTGCTTTCTCTTCTTTTATTATCCACACCTTTTAAATTTCAACACTCCTTGTGATTTATTGGAAAATTTCACTTTTGAACTTGCTCATTTATTTAAACAGCTCTCCTGTTTTTCAGTTTGCTTCTTGTTTGTTTATCTCCACCATTCCAACAAACAAAACTAAACATAAATATCAAAATTTTGTCGTATTGAGCATTTCATGTTTCTTAGTTGTCAGTTCTTAGTTGATAATTCAAATTCTGTCGAAGTTAGTTAAAAATTAGACAAAATGCATACAGACCCCAAGTTAGGGCTTTTGCTGTCCCAAGCTCATGGGACCCCAGCAGCTTTTCCGCCTTCAGCAGCCGCGCTTTTCGCCGCCAACCCGATGATAGCGAACCACCCTCAACTCCTGCACCAACTCTCGGCACAACTGGCCGCAGCCCAGATGAACAACCCCGCAGGACCGGGACATGTATCTGGGCCGATGCACCCAGGCGCACCCTTGCCGCACCCAGCTTTGATGGGATTCAATCCTGAACAAGTTGCCCAAGTTTGCGATACACTAGAGGAAAGCGGAGATTTTGACCGACTCTCGCGGTTTTTGTGGTCGTTGCCTCCCCACTTGCTGGAAAGCACGATGAAAAATGAATCGATCCTGAAAGCGCGGGCAACTGTTTACTTTCACAATGGACAGTTCAGAGATCTTTACGTGTTGCTGGAAAACAACCGCTTCAAAAAAGACTATCACCCCAAACTGCAAGCTATGTGGTTGGAAGCCCATTATCAAGAAGCCGAAAGATTGCGAGGGCGACCTCTAGGACCCGTTGACAAGTACCGAGTTCGCAAGAAGTATCCCCTCCCCAGAACAATCTGGGATGGTGAGCAGAAAACGCACTGTTTCAAGGAGAGAACTCGTGGGTTGCTGAGAGAATATTACTTGACGGACCCCTACCCGAACCCTAACAAAAAGAAAGAGCTCGCCCAGCTGACGGGTTTGACGCCCACACAAGTTGGCAACTGGTTCAAGAACAGGAGACAAAGAGATCGCGCAGCAGCTGCCAAAAATAGAGGAACAGCACTGAACAATTTCAACTCTTCCGACAACGAGGGTTCATACGACAAAATAAGATCACTTGAAATTGACATCAATGACGACGAAGACGATGACGACATCGACCTTGACGTCAGCATATCCGATTCTGACGACGAGGACAGGGAAAACTCCTCCGACTTGAAGAAATCACCCTCGACAACCCTAACCCCTGACTCGACAAGTTCCAAAACCAAACTTGACGGCTCCTCAAATAAAGTTTGCAAACCAGAACCGTGCGATTTGAGTGGCGCCGAGCATACAACCGATTCGAGCTCGGCTTTGAAATTAAAGTCGGATAACTACAGCCCCGCAGCATCGACAACGTCCGAAGTCAGCCCGTCAAACTCAACAAAAAGTGGCTCATCTGTTTTTCCTTCGCCCACCCAACCGAATGGGGGTAACCCACTTTCTAGTTATTCCCACGCCGCGTTTTCAGCTCAGAATGAAAGTTTGAAACGGGAATTGTTTTCACTTTACACAGCTCAGCTTGGATCCCAACATCCGACAGGGATCCCGCAGACGTTCCCAGGACTCCACACATCTGCTAGTCCGATTCATTTGCCTAACCTCCCACCTTCGAGTCTCAGTTCAGCTGCAGTTGCCCACCAGCAACGTCTTTTAGTACCTCCAGCTCAGCTATTTCTGCAAGCACAATTGGCAGCTGCCGGACGTTTGAATCCTTCTCATCCGGGATCTAACCCACATTCCTTTCTAAACTCGACCAACGCGCATTCCTTGCTAAGAACAAACCAACTTTTAATAAGTTCAGCTAGTTTGAGTTCGTCTCAGTCAAAATCGAGCTCGAATAACTCGATTACTGCAGTTAGTACAACAACATCAATGACAACTTCTCCTGTAAGTTCAACAGTTGTGAACCCTACAACTACAACTAGCCCCACCAAACCCACAGTGTTCTCCCCCGTTCGTCTGTGCAATATAAAGGACTCCAAATAAATCAATTCTCGACATTCACACCGAACCAGAATCTCAACGAATCACACAGAGCAAATTTCTGGATGCTGAAAACTTTATAAAGAAGCTATTTTAGTACGGACTGATAATGCGTCTATATTTATTACCTACCGAAATTGTTGCAACTTTCGAGTTATATTGTTTTCCCCTTTAAAATTGTTACACGAATTTGGTGCCAAAAAATTGTACATAGCAATAACTTTTATTTGTACCCTTGTTGATTTGCTACCTAGATTTTAGTTGAATTAATTATCAAAGCCAAAGCTTAACTTCATGTTCATTTCACTCATAATTAAATGTTCACACCTTAAAAAAAAAAAAAAAAAA

>CmacropygaTH\_Cmac.rna.tri.24852.1

TTTTTATTTAGTTCACTTAAAACAGATGTGAAGAAATTATCACAAACACATAAAATTTAAGGACTTTACTATCGTGTTGGATCTGATACAAGATCTTTGAGCAGTGCTATCTCAACAATAATCGTTATTCGAGCAGTTACAGTAGTAGATATTACTACAATGGCAGGAACAATAAACCCGAACTGCATCAAATCGCCTAGCTCGAAAATCGACCAAGTTTGTACTGCAGAAAACATACTGGAGTTGCCTGAACAAGGAGACACTGTTGGGCTAAAAAGAACGATGGCAGACGGTTCCTCCTGTCATAGGGTTGACAATTCGGGCTCTGAGTCTGCTGTGATTGGCCAAGCAAGTGATACGCAGTCACCAGAGAACAAGAAGAACCAGATTACATCTGTGGGGGCGGAGCAGGTGGAAGGAGAGGTGGAAGGGGTGGAACCAGTGTCACCCACCACCAGGTGGACTCAGATGAGATTGACATGGAAACACAAAGGGGACACCTCCACCTGGAGCACCTTCGACTTCAGGGCATCTTTCGATGGAACTAAGCGCGAAAGTTTAGTGGAAGACTCCAAGGCGGAGTTGGCGGCCAATAAGGAGAAAGAGAAAGTGGAATTGGCTCCTGGAGAGGAATCCACAACTCCGAAGCAGTTCAGAATTGAGATACGCAAATGTTCCTTGGCTCATTTGTCTTCGGTGGCTGCTATATTACACACAGAAAAAGCACAGCTTCTGGAGATAAGGACAGCATCAGATGACGAGTCACTGGTTTTGGATGAGCCAAAGAGCAGCCCCTCCTCTAACTCACTCACGGCTACTATCATAGTGGTCACAAAAAGACAGTTGTCAAAAGTTGTACAGTTGAGCAAAAATGTCACAGTAAAGGAAGAAATATGGTACCCTAGATGCGTTGATGATCTGAACAACTGCAAGAACGTTCTCTCGTCTTATGAACCCAATCTGGATCGAGATCACCCGGGATTCAATGATGTCAACTACAGAAACAGACGCGCAGAAATTGCAATGCTGGCTCAGAAATACAGACATGGAACCGATCCACCTCGGGTGGAATACACGGAAGTGGAGACTGCAACTTGGAAGGAGGCATTCGACAACCTCTCCCAGTTGTACACAACACACGCATGTATGGAATACCTCAAGTACTACAATCAACTCAAAGCTGACAACGTCATCCGAAACGACACCGTCCCTCAACTAGAAGATCTCTCCAAATATCTGCACGCTGCCACTGGGTTTACGCTATGTCCGGTGTCTGGCCTTGTTTCTGCCAGAGACTTCCTGGCTTGTCTGGCATTCAAGGTGTTCCCCTGCACTCAGTACATAAGACATCACGATGCACCCATGCACTCTCCTGAACCAGACCTCATCCATGAAGTATTGGGTCACGTGGTGATGTTCATGGATCAAAAGCTGGCCGACTTTTCCCAGAGAATAGGAAAGGCATCTTTGGGAGCACCTGATGAGTTCATTGTCAAACTGGCAACTCTGTACTGGTTTACAGTGGAGTTTGGTCTGGTCAGAGAAGGCGGTCAAGTGAAGGCATACGGAGCAGGTCTCCTATCTTCATACGGAGAATTAGAATACGCACTATCTCCTGAGCCTGATCACGTGACATTTGATACCTCAGTTGTGACAGTGCAACCATATGATGACTACAACTACCAGCAGGTCTACTTCATTGTTGACAGCTTCCAACACATGCTACACAACTTCGAGTCGTTCCTTCTTGCGTCATCAAACGAGAGCCGATTGCAACTGAAATTGGAGTGAATTTGCGCTGTGATGATTTGATATCATAGACGCTGAATTAGCATGTTAAATAACTGACTAATATTCTGTAATCTATCAATTGTACTCGAAACGGAGCGAACCCACGTTGAGGTGCCAGACCGAATGTCGATATGTCCAGACCGAAATGA

>CmacropygaPH\_Cmac.rna.tri.2590.1

ATCTTGCCCTCTAAGCCGTGCTATCTATCATCTTAAACTAGAATTCGATTCATTTACTCAGAATTTGGATTTAGGTTTAATAGTTCATTTTTCAAATCATATTTTTGATTAATTCACTTGAAATTCAAAAGATTCAAAATCTATTCTTTTATATCAAATAGCCTAAAATAGTATTCAAACGTCTTAGAAATATTTCTGTCAATTGAAAAATATTTGAGCCATAATGGTGGTCGGAAATAAAAACAGACCTTCTGGCAGTGAATCTGGAAGCAATACTAGCATAATTTTTGGAATCAAAGAGAAAGTGGGCGCACTTGCAATTGCGCTTAAACCATTTGAAGCCAATGGAATTACGTTGAACCACATCGAATCGCGACCTTCGAAGAGATCCGAGGCAACTTACGAGTTCCTCATTACGACAGACAGCCAAGTCAATGACAACGAAGTGAAAGCGGCTCTGGGCGAGTTGACAGACAATGCGAGTTATGTACAGGTTCTGAGCAGAAGTGAGAGATCCCAGGAGTCAGTACCTTGGTTCCCGCGTAAGAAGAAGGACCTGGACCAGTTCGCTCATAGGATTCTGAGTTATGGATCTGAGCTTGATTCTGATCATCCAGGCTTCACGGACATAACGTACACAAAACGGAGGAAGATGTTTGCGGACATTGCCTTCAACTACCGTCATGGGACTCCAATTCCAAGGGTGGAGTATACAGCTGAAGAAATCAAGACATGGTCTGTCGTGCTGAACAGTCTCACAACTCTATTTAAGACTCACGCCTGTGCAGAGTTCAATTACATATTTCCTCTTCTGGTCACGAACTGTGACTACATTCCGGACAACATCCCCCAACTGCAGGACGTGTCTGAATTCCTCAAGAGTTGCACTGGCTTCTCAATCCGACCAGTGGCAGGACTATTATCGTCACGTGACTTCCTGGCTGGACTTGCATTTCGGGTGTTCCACTCGACGCAGTACATTCGGCACCCTTCCAAACCTCTATACACACCCGAGCCAGATGTTTGTCACGAACTGATAGGTCATGTGCCTTTGCTGTGTGACCCAACTTTCGCCAGATTTTCGCAGGAGATCGGAATTGCCTCCTTGGGAGCATCAGATGAGTGGATAGAGAGACTGGCCACCCTCTACTGGTTCACTGTTGAGTTTGGACTGTGCAAACAGGATGGCAAATTGAGAGCATTCGGGGCGGGGTTGCTGAGTAGTTTTGGGGAGCTACAGTATGCGTTGAGTGACAAGCCCGCAATCAAAGAATTCGACCCAGAAGTGACTTCAGTGACAAAGTACCCAATCACAGAATACCAGCCAACTTATTTCTACACACAGAGTTTTGAAGATGCACAAGAGAAACTGAAACAATTCGCTGCCAAAATCGCCAAGCCGTTCACTCTCCATTACGACGCATTCACGGAGTCCATTGACATTCTGGAAACAAAAGAGCAGCTAAGCCAACTTGCTGGACTGATAAAAGCGCAAGTGTCGACACTGCATTGTGCACTTGAGAGATTGGGATCGAGCGAATATTACGCAATTAACACTGGTAATCTTCAACAGTGATAGGAAGAACAAAATAGCAAGATGCGATTACCATTTGCAACATAAACCGGTTGCGAGTAGAACATTCATACTGTAGCTATATTTAATGACAGTTTTACTGAAAATTATTTAAACGTATCTCGATTTTTAGTCTTGTAGTTAAAAATCTCAGGATTCAAAAAAAAAAAAAAAAAAA

>TtransversaChAT\_KY809754.1

CTGGACAACCTGTGTAGTCAGTTGAAAAGAATCACCAAGATGGCTGACAATTGCTACTCACATCCTATGGGAATACTGACAACCTTAGATAGGGATAAATGGGCTACAGCAAGACAAAGGTTACAAAGAGATAACACCAGTAAATCGTCATTGGATCTTATCGAGAAGTGTATATTTGTGCTCTGCCTTGATCGACATATACCCATATCATTTAACCACCAAAAGAGTATTGATCAAACAGATATGAATATACGAGATGTCAATTCTTTAGCTCTACAGATGTTACATGGGCAGGGTAGTAGGATTAACAGTGCCAACCGCTGGTATGACAAAACAATGCAGTTTATAGTGTGTGAAGATGGGGCGTGTGGATTGAACTATGAACATTCTCCCTCAGAAGGAATTGCTGTTGTGCAGTTAGTAGAACATCTGCTAACATACATGGAAGAAGTTCGAGTGAAGAAACTACAAAGAGTTCAGTCCCTATGTGAGATGCCCTACCCTAATAAACTACCGTGGAATGTGGATGAGGCGACGGTAGAAGATATAGAATATGCAAAGAGTCGTATAGATAAAGCAATAAGCGAGCTAGATTTTTATATGATAAAATTTGATGACTTTGGCAAAGAATTCCCAAAGAGGCAGAACATGAGTCCAGATTCCTTTATTCAGTTGGCATTGCAACTGACATACTACAAGGTTTACAGACGTTTGGTTTCTACTTATGAAAGTGCTTCCACAAGAAGATTTAGAGAGGGTAGAGTTGACAACATAAGGGCATGCTCTCTAGAAGCTCTTACGTGGGCAAAAGCTATGGTTGGCGAAGTTGAGGCGACGCCTGAAGAAAAAATTACCTTATTTAGAAAAGCAATAGAGCATCAGACAGAACAGCTTATCTCTACTATTCTAGGCCACGGTATGGACTGTCATTTGCTTGGCCTAAAGGAGCTTGCCACTGATATTGATCAGAACGTACCTGAAATCTTCACTGATGAATCTTATAGAATAACCAATCACTTTACCTTATCCACAAGTCAGGTGCCCACATCTACAGAATCCTTCATGTGTTATGGTCCAGTGGTACCAGATGGTTATGGTGTATGTTACAACCCCCATCCTAACTATATTGAATTCTGTATTAGTTCCTTCAAGGACTGCCAGGAAACAAAGTCGGATAACTTTGGATCCATCCTAGAATCAACCTTACAACAAATGCACGATCTCTGCTGTCAGACCAGTGATTTGATTGGACGATATGATGGTCGGGACGTTGGTGTCAACGGTGAGATAAGAAATGATCAAACTAGTGATGCCCCAAATAGAAGTCCTAGAGGCAAACTAAAAAGACAGCCTAACCTGGCTAATCATGTCTGA

>TtransversaVAchT\_KY809753.1

ACCATGCCAAAAATCCTGGGAATAGGTTTTGATGCGTCAGAAATTATCCCGGCCATGAAGAAAAGGTTAAATGAACAACGACATCAAAAGCGGTTAATAATGGTGATCGTGTGCACGGCCCTTCTCCTGGACAATATGCTGTACATGGTAATCGTCCCTATCATACCACACTATCTCAAGAGTAAAGGTAGATGGTACACTCCTGCACCTCTTGGTACTGAATACACCAACATGACCACAGTAACACCATATGTCAATACAACAGTTGCTGAGGAGGCAACGGATATGACCAGTACGGTATCACTCAACACAACCACCAGAGAGCCATTGTTCTTTGCCAAGTACAATGCAGAAGACACAGGTGTACTGTTTGCATCAAAGGCCATAGTTCAGCTAATGATCAACCCATTGACAGGAGCCCTCATTGATAGGATAGGGTATGATATACCTTTGATGATTGGTCTGGGGGTCATTTTCTTTTCCACCATGATATTTGCCTTTGGAGAAAGTTATGCTGTGCTGTTCTTTGCAAGGGGTCTACAAGGAGTTGGGTCAGCATTTGCCGATACCAGTGGTCTAGCTATGATTGCTGATAGGTTCCACGAAGAGGCCGAAAGAAGTCAGGCTCTAGGTATTGCATTAGCTTTCATATCATTTGGGTGCTTGGTGGCTCCACCTTTTGGTGGGGTTCTTTATCAGTTTGCTGGAAAGGAGGTGCCATTTATAATCCTGGCAATGGTAGCTTTGGTTGATGGATTTCTATTATGGGGTATTGTTGGACCAATACGGGAAGAAAGGAGACTAAAGAAGGCCAATTCTGAAGTACCTTTAAATGGAACACCAATATGGCGTCTCCTGATGGATCCATATATAGCTATTACTGCTGGAGCACTGGCAATGTCGAATGTCTCATTGGCATTTCTTGAGCCTACTCTGGCCAACTGGATGGAGTCTACAATGGGCAGTAAAGAATGGCAGACGGGTCTGGTTTGGCTACCAGCTTTCATTCCTCATGTATTGGGAGTGGTTCTCACTGTTAAACTTGCAAAGGCCTACCCTAAGCACCAATGGCTGTTAGCTTTCATTGGATTGATGATGGAGGGCCTAATGTGCTTGATAATACCATTCTCTGGCGAATTTGGCGTTGTGATAATACCAATCATGGGTATATGCTTTGGTATAGCCTTGGTGGACACAGCTCTACTACCCACTCTAGGATACCTAGTAGATGTACGCCATGTGAGTGTATATGGCTCTGTGTATGCCATAGCAGATATATCATACTCCATGGCCTACGCCTTTGGACCTATCATAGCCGGCTCTGTCGTCGCAGCCATTGGATTCCTATGGTTAAACATAATAATATGCCTCACTAATGTGATTTATGCACCTTTACTGATCATACTTAAAGTAATATATAGATATAAGCCAGTGCAGGAGGAGTGTGATGTCCTAGTCAGCTCCGGGTTGTCACAGCAACAAGATTATAAGACATATATGGTTACCACCAAAGACGGAGAGAAGATGAAACAGGTTGAAGAAAAGTTGATGAACCATCTTGAATATTCAAATTCCAAAGAAGATATAACTAGGTCATCGTCATCATCTGACCTGGATAATACCACGCAAAGCAATAAAAAAACTGAAGTTCATCATGACAATGAGAAACTTGTAGAGGCAGTTAATCCGCTTTATAATCCAAATAATTATACACATCAACATGTAGGTAGGGGAGGTAAAGCCAAACGGGATAATAGTTCATCGGGGTCGTCAGATGATTCTGAATGGTAG

>TtransversaTH\_Ttra.rna.tri.19142.1

﻿CGGCGGCCTGCAATGGAGAAGAAAGAGTCTTATCGACGATGCAAAGTTTGAAACGATTACCAACGTGGAATTTGAAAAACGAGAACGACATCTAAGTCAAAATGGATCGATCTCTGAGGATGACGTGTTTGAAACCAGCACTAGTGATGACATAGATCTATACGCGTTAGTAATAACATTAAGGGACGGAATTGTTACCCTCGGAAGGATACTAAAAATTTGTGAGAATTCCAAAGTTGCCATCCACCATGTAGAGTCTAGGAGCCAAAAAGATAGTGGACAAATTCAGGTGTTCCTTAGAGTAGAGTCAACTAAAGAGCATGTAGCTCATTTAGTGAAAACTCTGAGGCAAGGGGTCGCCGTTACTGATGTTATTGTGACTAATGACCATGATTCACAACGGAGAGATATCTGGATTCCGATACACATTTCAGACCTTGATAAATGTAACCATATAATTACAAAGTTTGAGCCAGAGCTAGACAGTGATCACCCAGGCTTTCATGACAAAGAGTACAGAAAAAGACGTCAACAGACGGCTAATCTGGCGTTTGAATACAGGCATGGAAAAACCATTGTCGACACTACATACACCAAAGAAGAAACGGAGACTTGGGGAGAATCGTATAGGATGCTAAAGAATCTGTTTCCAACTCATGCTTGTAAAGAGCACATTGACATTTTTGAGAAGCTTGAAAATGCGGGAATATACAGTGAACATCACATTCCGCAGCTTGAAGATGTGTCTACTTTCTTAAAACGATCGTCAGGATTTCAACTCAGGCCAGTTTCTGGTCTTTTGAGCGCAAGAGACTTTCTTGCAAGCCTTGCTTTCCGTGTATTCCAGTGCACCCAATACGTGAGACACCATTCCATGCCTATGCATTCTCCGGAACCGGACTGCATACATGAGCTGTTAGG

>TtransversaTpH\_KY809752.1

GAAAATCAAGTTTCTTCTATTTCAGTTGGAATGCCGACTTGTTCGTTTGACAAAAATGGAAAAGAAATCAATAAGGTGCCATGGTTTCCCAGAAAAATATCAGAGATAGACAACACTGCCAACCGTGTCTTGATGTATGGCACAGAACTGGATGCAGATCATCCGGGATTCAAAGACAATGAGTATCGTAAAAGAAGAAAACACTTCACCGACATAGCTATGAACTATCGACATGGCCAACCTATACCTCACATTGATTATACAGAAGAAGAAGTCAAGACATGGGGGACAGTGTATCGTGAATTGAATAAGCTCTATCCCAAGTTTGCTTGTCGAGAACATATAAAAAATCTACCCTTACTAAGTCAGCACTGTGGATATAGAGAAGATAATGTTCCACAACTTCAAGATGTATCTGATTTCCTGAAAGAAAGAACAGGATTCCAACTAAGACCAGTTGCAGGATATCTTTCACCACGTGATTTTCTAGCAGGTCTCGCATTCAGAGTTTTTCACTGCACTCAATACATTCGACATGGATCAAATCCATTATACACACCAGAACCGGATTGCTGCCATGAATTGCTGGGCCATATGGCACTCCTTGCTGAACCAAGCTTTGCACAGTTTTCTCAGGAAATTGGACTGGCCTCTCTTGGGGCCACTGACAATGATATTGAAAAGCTAGCTACGTGCTACTTTTTCACGGTGGAATTTGGGTTGTGTAAGCAAGATGGGGACATGAAGGTTTATGGTGCAGGGCTTCTATCTTCTATAGCTGAGCTAAAGTATGCTGTCAGCGATAGGTCAGAAACAAAACCATTTGATCCAATTTCAACTAGTAAGGTTGAATGTCTTATAACAACATTCCAGCAACAATATTTTTACACAGACAGCTTCGAACAAGCTAAAGAGAAAATGCGATCATTTGCAAGTACAATCAAACGTCCATTTGCTGTAAGATACAACCCGTACACACAGAGTGTAGAAGTTTTAGACAATGCTCGGCAAATAGCTACAGTGGTAAATGAATTGAAAGGAGATCTATGTATAATAAGTGATGCTGTCAAGAAACTTGCCATCAAGGAATAA

>PharmeriSix3/6\_MN431430.1

ATGAGTGCGGTCACTAACTTCTCAATGATGCAGCGCCTGTTGGCACCAGGCATGATGTTAGGGGCTGCCTACCCCATGTTCCCGTGCCTACCTACGCTGAACTTCTCCGTTGAACAGATAGCTCAAGTGTGCGAAACTCTGGAAGAGAGTGGGGACATTGAACGTTTGGGACGATTTCTGTGGTCATTGCCCGTCAATCCAACAGCATGCGAGGCCCTGAATAAACACGAGTCGGTGTTGCGGGCGAGGTCTCTAGTAGCCTTTCATACTGGTAATTTCAGGGACTTGTATCATATTTTGGAAAATCACAAATTCTCAAAAGACTCTCACGGTAAATTGCAAGCTATGTGGTTGGAGGCCCACTACCAGGAAGCTGAGAAACTACGCGGTCGGCCTTTAGGTCCCGTGGATAAATACCGTGTTCGCAAGAAGTTTCCCCTGCCAAGGACGATTTGGGACGGAGAACAAAAAACGCACTGTTTCAAAGAACGAACACGAAATCTTTTGCGGGAATGGTATCTGCAAGACCCATATCCCAACCCTACCAAAAAGCGTGAGTTAGCAGAGGGCACGGGACTGACGCCGACACAAGTAGGAAATTGGTTCAAAAACAGGAGGCAAAGAGATAGAGCCGCCGCCGCAAAAAATAGAATGTTACAAAAGCACAGAGCTGAACAGAAACGAAAGTGTATTGACGGAGATAATAACAATATGATAGATTCCTCGCCAGACTCCAAATTGATGGATTGTAAAGACGATGATCTCGACAGTAGTTTGGGTTCACCCATGAGTTCTTACGGCGACGAACCACTGTCCCCTGGCTCACCATG

>PharmeriTH\_comp140338

﻿CCTTTTTGTCTCACGAGAATCATCGGTAACTTGTATTCGTTTGACGCTATATTCACAAAACTACTTTCATATTTCAAACATGATTTCTTCGTCTGATTCCGAGACCGCGGCGAGGCGACTCGCTTTCCAAAAAAGCTACAGTTTAGAGCATGGTAATTCATGGAAGCGACGATCTCTGATTGATGATGCTAAGTTTGATACCGTTACCAATGCTGAATTTGAGAAACAGGAACGCCGCCTTAGTCACGCCGACTCCCTGTCTGAGGATGAGGTGTTTCCATCTGAGACGAATGGTGAAATAAGCCGACTTCCTTCAGAAGGAGAAAGCGACACCCCGCGACAAGTAGGTGTCGCGTTCACCATGAAAGAGGGAAACGTCTCACTTGCTAGAGCATTGAAGACAGTTGAGAACTCGCATTTCACGGTTCACCACATCGAGTCGAGGAAGTCGAGTGTGATAGGTGCCCACATGGACGTCATCGTCATTGGCGAGAGTACGCGAGACCACGTGCTTACTTTATTGAAAACACTCAAACAGAGTTCTAACATTACTAATGTTAAAGTTCTCAATGAGAAGGACCCAGGCCTAGATATATGGTTTCCAACACACATATCTGAGTTGAACCTCTGCAACCACTTGGTTACGAAATTCGAGCCTGATTTAGACGACGGACATCCGGGATTCACAGACAAGGGATACCGAGCAAGAAGAAAGATTATAGCTGATGTCGCCTTCGAATACAAGCAGGGCGATCCTATACCCAGAGTTCATTACTCGGACGACGAAATAAAGACATGGGGCATAGTTTACAAGCAGTTGGTTGGATTGTTTCCGACTCACGCGTGTAGTCAACACATTGAAGTCTTCAAACTGCTCGAGAAGGAGTGTGGATACAGCCCAGACAACATTCCACAGCTGGAGGATATATCGAACTTCCTTAAAAGGAAATCTGGTTTCTGTTTACGGCCTGCAGCGGGTCTGTTGTCTGCCCGTGATTTCTTGGCTAGTTTGGCTTACCGCGTATTCCAGTGTACACAGTACATCAGACATCCATCGTCGCCTTACCATTCGCCCGAGCCGGACTGCGTCCACGAGTTATTAGGCCATGTCCCTCTACTGGCTGATCAGAATTTTGCTCAGTTCTCCCAAGAGATTGGTCTTGCTTCCTTGGGTGCGTCTGATGCTGACATTGAAAGATTCGCCACGCTTTATTGGTTCACTGTTGAGTTCGGATTGATCAAACAAGGCGGCCATATCAAGGCGTGTGGTGCTGGCCTACTGTCGTCGTATGGGGAACTCATTCACGCTCTGTCGGACACTCCTGAGAGGAAGCCATTCGATCCATACACTACTGCTCTACAGGAGTATCAGGATGCTGAATACCAACCTATATATTTCGTCGCCGAATCGTTTGATGATCTGAAGCAGAAAGTCAGGCTTTATGCTTCCCGCATCAAACGCCCTTTCGAAGTTCGCTACGATCCGTTTACTCAAACGGTCCAAATACTGGACAACAAAACAGCAATACAAGATATTACCAACGTCCTGAAGGCTGAACTTGACCATTTGAACACCGCACTTTGCAAACTAGACAACCCAGCATCTAATTTTATTTTGGAAAAACAGCTAGTGAAGAAAGCTATTAATAAATGTTGCTCATAAATAACTTGGACTTCATCTGCGACCACTTGTTGTGTAGGGATGTTACATTAAATCCCACCACTCAGATTAACGCCAACTCCCTCACGGAATATATGTTGCAACCCACGTCTGATCGTCACATGCTGATGTTGCTCGTCGTGTGGTACTCGCCTGAATATGGTAGTACGATTACAAACTGAAGATTACCGGCAAAGAACGATAAACTGGTCACTCTCAAAAGACTAGACACACCGAAACATCCCTTGACATGGCCGCTGTTTCGAGTGTGAGCGACACTGGTGTGATGAGCATCTCTTGGAGCAGAAAGTTAACAGACGTACATAGGTAGCAATGCAACTCAAACACATGTAGATAGTATTGATCTGTTACAACGGTCAGGGATTGGACCAGCTCAAGTTTTTGACGATGTTACATTATACAGATTATTAGATGAATGATAATATATCAACTCCACATGTAGTTTTCATGTGCAGGCATGGATGACGTAATACGTGCATTGACGTGGAGAAATATGTATATTCCGCTTTGTTATTCCAACTAATTCAAGAATGAGATACAGTGATCTCCACATACTTAACATGCTGCGCTGATTAGGCGCTAGAGTAGTTAGCTGAGGTTGGTAGCGATCACACCCATGCATGTATAGCAGCTTATAAATATAACCACCCTGTTACGATACACAATTGATGTGAACCCTTTGTGCATGTGTACCCAATGTCAGTCGTCATGAATAGTGCTTTCAAATAAATAAACGAATATTAAATGCCTCCAGTTTTATTTGTTGGGCCCAGATTCCATGGAATGAAAATACGGGCTGCCAAAACGCACGACTCTTTAGCAGTTGATTTATTGACAAAAATGTTTTTCCTAAAATGTCATATATATAGATAATAGAGGCGGTGGATCGGTCA

>PharmeriSyn\_comp164939

﻿TGAATATTGATCAGGGAACTCATCTGAAGGCAAGACTGCTGTCATGTAGGTTGTAAGCCTGTCACGTCGCTAACGGGATATTTTAAATCCGCCTTTTTAACAACACCTGTGTTGATAGAACTGAGCCACAGGGCTGAGGTGACAAAGGGGTCCTTAGAACCCAACCCAGCCACTGGACTGGCTGTTTCAAAGGTTAACAGCTGATTCAACCTAGTGTCATGGAATATTTATTCCGAGAGCGGAGGGATGCAGACAATGCCGGAGCTGCCCCTGCTCCTGGGAACCCTGTCCCTCGCGGAGCGGAACCCCAAGTGGCCCCAGCAGGCAGCACAGCCCCCTCAGACATTGGTGGCGATACCACGACAATGGGACTGGATGTAACAACAGCCGCAAAAAATATGGGAGACAAAATAGCAGACAAATTTATGGAAGAGCTTCATAAACTACCATTGCCGGTATGGGCGGTCATTACAATTGCTGTTGTGGTACTTCTTCTTATACTGGTCATCTGCGTATGTATATGTAAGAAATGTTGCTGCAAGAAGCGGAAAAAGAAGGATGGAAAGAAAGGAGGAAAAGGCGTGGTCGACTTAAAGAGCGTCCAGCTACTGGGAAATTCTTATAAGGAAGGGGTTCAGCCTGACTTAGAGGAACTTGAGGTCAACATGGAAGACAACGAAGATGCAGAGAGCAAGAAGTCGGAGGTCAACCTTGGAAAACTGCAGTTTAAACTGGATTACGACTTTCAAAAAGGAGAGTTGGCTGTAACAGTAATACAAGCAGCGGACCTCCCTGGTATGGACATGTCTGGCACGTCCGATCCATACGTCAAAGTCTACATTATGCCGGACAAGAAGAAAAAGTTCGAAACCAAGGTCCATCGCAAAACCCTCAACCCGGTCTTCAATGAAGCCTTTACTTTTAAGGTTCCGTATGCAGAGATGGGCGGAAAAACGCTGACATTTGCGATATATGATTTCGATCGATTCTCCAAACACGACCAAATCGGTCAAGTGCTGATACCCTTGAATTCTATAGACTTGGGTCAAGTCGTAGAAGAATGGAGAGATTTAACGAGTCCTGATGATGAGGAAAAGGAAAACAAACTGGGTGACATTTGTTTTTCCCTACGGTATGTACCCACGGCTGGTAAGCTGACTGTGGTCATTCTGGAGGCAAAGAACTTGAAGAAGATGGATGTCGGTGGCTTGTCAGATCCTTACGTTAAACTTTCTCTGATGCTTAACGGAAAGCGTATAAAGAAGAAGAAGACGACAGTCAAGAAATGTACTCTCAACCCCTACTATAACGAGTCATTCACATTCGAAGTCCCATTTGAACAAATCCAGAAAGTTCAGATGTACATCACAGTGGTCGATCATGATCGCATTGGTTCTTCAGAACCCATTGGACGAGTCATATTGGGCTGCAATGCTTCAGGAACAGAGTTGCGACATTGGAGCGACATGTTGGCCAATCCAAGGAGGCCAATTGCCCAGTGGCATACACTTCAGGAATTACCAGAGAAGAGTTAAAAAGAGACTCCAACAATGTCAAGATATGGACAGTTTGCCTCATATTGTAAACTCTGAATGAAGGTTACACACGAGGAAGTCATGTTTAAATTGAAACTAAGTATCAGTCAGCCATTTGTTAGCAAATTAAAATAGTATTTCATTTAGGATTGACATAACATTATAAGGGCATCAAATGTTGACTGCTCTGAATAAGTGTGGCGCTTATCTTGGTTTTGCAAAATCATGATTCCTTTATAATTGGATCGTTGATGTTTTATGACAAATACCACACAGTCTGTCTTGGTCGTCAAATATCTATTTACATTCCTGACCTGCTAATTAGCTCTATCGAGTTGGTTGCTTACAAACCATTTTTTCTGCTTGCTATATTGAGGCTTATTACATCAAATTGATGGATGGTCAAACAAGGGCGTGGACTCTTAAAAGGAGTGGTGTGTTGTGAAGAAGTAGCCACCAACAACTTGGGTCATTCCTAGTGGTGCCATCTGGTGTAACCCATTGTGCACTGTAGCCCCCACTTGTTATACAAACTGTTACTATCCATCTGAAGATGTGACACGAAAAGCTGGTGAGAATATTTCTCCAAGGAAGTATGTTCTGCTTAGGAATTGTCCTAAACTAGGATGTCAATATTATATAAAGTGGTAGAAGCACAGCATTTCACGTCACGAATCATTTGGAATGATGCACACTTTTGAGACGGGTCAGCCCAGCCTACAACACCAAGTTTTTTTAAGCACGTTCTTGTACCACCCTAGCACCATCTCATTGTATGACTAGGCCCACGCTGCTTTGTGTTACCACGGTGATCAGAATTTTTTGTTAGCGTTGACCATTCTCAACCACAGCAATTTCATGTGGCAAAGTGCAATACACATTGTATTATAGTTAATATTGTAAGGTGATAATAAAATTAAACGATAAGAGGCTATATATATATATATTATATATATTTATTTACATCCACATTGTATTTCATAAGAAAACCTCGTGTTTGAGAATGTATTTGAAAATGAAAGCAGAATGTTATCCAATGAGAAGCCAGAATAGAACGAAATACTTTATAAATTCCAAAGTGCATGAGTGATGAAACAATTATGGACGGATAGAATTTTATGACTGTTGTCACAAGGTATTTGTCAGCCATTTTTAAAACAATTGTTCATGAAATTATGGGCGTATCTTAAGTTAGCAGCCATTTAAGTCAAGATGAGTACGCATGTTTTGAAATCGTGTCTTTCTGTTAAAGTACTTACATGCACTTGCACATAAAAGCACTCGTTGTCACCAATTCAGTTTTCTGTTATAAATGTTTTTTCTACATTATTTTGCTATTGTTTTGCATAGCAAACATCTATTCCTTTCTTGAATCTCTAGTTTGTGAAGAGTTTTGTTGCTGGACAAGTACAAGGAATGAAATGTTTATTCTACTTAAACCTTTTGTTTGAAGATATTATAACAAAGGATGACTTTGGATTAAAATCTAGAAAATCTTCATTCAGCTACATTCCTTCTTTATTTCCTTACCAAACATTCATTATTTAAATCTGTGTTGGCCCGCAGATTTGAGTTCCTCTCTTCTGTTTCCGTTAAGATTTTGGTGCATTTATGACGACGTTCTGAACAAATGAGCTCATGCGCTGTCCTTGTATAAGTCGATTACCAATCTTAGAAATTGCGGCTTAAGATTTAAAGTTTTGATTTGTGAGATATGCTACAAGCTTCAAATATTCATCTTGACAGGCAGTCAAGATGATGTGTTGAGTAGGCTTTACTGAGCTTGCTTAACTCGCCGTCTGACAGCTAAATCATAAGGTTTCAAAGTTGTTTGTTCTTAAAGTTTATTTTTCTTTATTTTTTCATCAAATTTTCTGTAGAAAGGACAACAGACATGCTGCAGGCACTAACAAAAATGTCATTAATGTCTTCAGAGTTCATAAACGTGACATTTCAGGTTAACCAAACAACACAACCATTTATGTTAGCAATATGTCAAAACCTGATGCTTAAAATGCCAAATGCTGTTGTTGCATCGGGACTAGACAGTTTTGTAGCCCATGTCTTATTTATTGTGATAGCCTCTTAATTACAGTATCAGGCCAATTATTGTGAATTTTCATTATTTTTTAGAGTTTAAAGTTTGTTTGGAGCAGGGTTACAAAATGTCTGACTTCTGTCCATCATCAGAAATTGACATGTACTGTTAGGAGACTTGAATAAACACCAGTATTTTTGCTGGAAATCAGTTTTAAATGGGTCACCATGGTTTTGAGTTTTAACAAGCCATTGTGTTGAACACAGCTCAAGGGCCATGCCTCTTGTTTAGAAATAAGTTATGAGATTGGTAATGATGGTTGGAATTTTCAGTAAACATTTTGTGTCCCTGCAGATGGCGCTGTGATAAGGTAAAACATTTTATTCTTCTGCTTGGTGAGAGATTGAAGGGCTCAATTGTCGCAAACAATAGGATTATATTTATCGCTTTGGACATTTGGGTTGTCAAATTACATATAACATATATATCTATGTAGCTAGTTTTCTTGCGTTTCAGCATATGTATCCTTCAGTTTATACAAATCGGAAACGGTAGTTTTTTAATGTTTTTGCATCAACCTATCATGATAATGGTTAGTGCAACTATGTTTTCAAAAAAAACTTACCCGTGTTTAGTTTTTTAGCAATTTGTGAATAATAAATTGTTAAATAAAAGAACTTGTTATTGACAGTTTCAAATACAAACTGATGGAATATATACTTAACTCTTTGGAATCTTGACGTGCATTTATCACAAGTGTAGCTTTGGTGTTTAAGGTATCAGGAAGCCTATCGAAGCAACTGCTTTTCGTCTTTTTAGGCAGCATCAGTTACAAATACTGTCGTATGCAATTTCCCCTTGTAGGATCCATTAATCGTAATATCCCCCTGGGGGAAAATGTCTCATTTCCAAAACAATGATTTATTTTGTTTGTGAGTGGTTTTAACGATGATGATAAATAGTAGCGTGTTTATGTATAGGTGAAATAATGGAGGTATCGTTTAATCAACTTATATAAAATATAGGTCACAATCACCGTAATACTTTGTAGTTGTAGCATAAGGATCTCTCACCCTAAACTCGATGTGTGGTAGGTAAAGTTTAGTCATGTGTAAACAGGGTTTAATTGTTCTGCAATTCTGACAAACTTGCCTATCCTCCTTAGAATACGAGGAGTGGAGAATGAATTGACAATGAACTAATACCCGTTTATTCCTAACTAAACGATACATGTATGAAATATAGAAAAAAATCAGTGAGGAACAGCATTTCGGTTTCTGTTGGAAAGACTTGATGTTCACCTTTCATTGTGCATGTCTAGTTTTAACTTTCAAAAAAAACTTGGAATGCACCTTTGTCACTGAGAATTTGATTATCAAATAATGAGAGATATGTTATGAAGATATGACATACCATGTGTTATAGGAGGAACAACGTTTTGAAAAAACACTAATGAGAATATCCTATTCCAGTGAGTAGTGAATGTGTGAACATCAATGTTTTCCTGACAAAAAGGTTACTTGAACATTCACTGGAGGTGGATGCAAAACATGGAATGTGAAAATGTATGTTGTGGTGTATAAAATTATAAAAAATAAAAATAGTGTTGTTTTATTTTAAAAAAAAAA

>PharmeriGata\_MN431425.1

ATGGCACACACTGATTCGAACTGGCTACACTCATCCTTCACCATACCAAAGCTTCACAAGCCCTCCCCCGACACAGACGACCCAAGCCACCTTCTCCCTAAGGAAGACGTCGAGAACTTTTTCAATCATTTAGAAGAACCACTACCAACTAGACTTCCAAGTATGTTCCAGAGCAGCGTTCCAAGTTCTTTGCCGACCTACGACAACGCCCATGGCGGTTACATGCCGACGGCGAGTCCAGTCTACGTACCCACCACAAGGACTATGTTACCGGTCCAGTATATGAATGGGTCGGCGCAAGCTGTCCCACAGAGTAACAATTCCATGTGGTCGATGCCGGCTGATCCCGCGTACAGTGCTGGCGGTTCCAATGGACGATTTGCGTTCCCTCCCACGCCCAGTCCCCCTATCGCGTCACCAACCGGCCGAACGGACGCGTACGGTGCCATGCCCAGAGGAGCGGGACTGAGCCCCTACCCAAGCTATCCCATAAGTGATTCAATGTCAGCATGGAACGCGTATAATAACCAGATGGGAATGCAGCAGGGAGGTCTACGGAGGGCGACACTACCCCCTATGCAAGAGGGTGATTTCTTTGGCGAAGGCCGTGAATGCGTGAACTGTGGCGCTATCTCTACCCCTCTGTGGAGGCGAGATGGGACCGGTCATTACCTGTGTAACGCCTGCGGACTCTATCACAAAATGAATGGACTCAACCGACCTCTTATCAAACCGCAGAGAAGACTCTCCGCCTCACGCCGCGTCGGCTTATCATGCGCCAACTGTCACACATCCACCACGACGCTATGGAGACGTAACAACGAGGGTGAACCTGTTTGTAATGCATGCGGTCTCTACTACAAACTCCATGGGGTGAATCGACCACTGGCAATGAAGAAAGATGGCATACAAACAAGGAAGCGTAAACCGAAGACAATGGTTAAGGAGAAGGCCATCAAGTCTGAAAATCCAGATCCAAAGCCACAGGGCATGAACACTTTGCACGTAAGCCAACATATACAGCAGAATATCAACTCGAGTGTCATGTCGAGCGCATCTTTACACGGCATGATGTACGCAAGTCAACCCCACTCTCTACCTCACATGTCTGAACACAGCAGCACTCCTTTATCGTCGGGATCGTCGAACGCCTTTCCTACACCTTCTCCTCCCAAAGCTATTCCGGTTTCCAATGGTAGCGATAACGGCAACGTGAACAACCTCAGCGACCATGCGTCGTTAACTACCGTCTCCGTAGGGGCTAGTTA

>OfusiformisSix3/6\_KR232531

ATGTTCGTTTGTGCCGATCCAGCTCGGACTTTGGCCGCAGTATCAATGGCAACGAAACAACCGATGAAGGTACCAACAATTACGGCGGTACCAAGCCCGGCAAATATGTTCATGGCTTTGCCAATGTTAAATTTCACACCACAACAAGTTGCACAAGTTTGCGAAACTTTGGAAGAAAGTGGCGATATTGAACGCCTTGGACGTTTTCTATGGTCGTTACCCGTTAACCCGGGCGCCCTGGAAGCCCTCAACAAATGCGAATCAGTACTAAGGGCCAGAGCCCTTGTAGCCTTCCATACGGGAAATTTCAGAGACCTTTATCACATCTTGGAGTCGCACCGATTTACAAAGGAATCCCATGCCAAACTGCAGGCTATGTGGCTCGAGGCTCATTACCAGGAAGCCGAGAAACTAAGGGGAAGACCCCTCGGTCCAGTGGACAAGTACCGTGTCAGGAAGAAGTTCCCATTACCAAGGACTATTTGGGACGGGGAACAAAAAACACATTGTTTTAAAGAAAGGACTAGGGGACTTTTAAGGGAATGGTATCTTCAAGATCCATATCCCAATCCTACAAAAAAGCGGGAGCTAGCACAGGCCACTGGTCTAACCCCAACACAAGTCGGCAACTGGTTCAAAAATAGACGACAAAGAGACAGAGCAGCAGCAGCCAAAAATAGATTACATCTAAACAGAAGTCACTCATCATCCAGTATGGATGGGGTCGGAGATCACGACAGAGACAGTAAATCCCCGCCCATGTCCCCTCTATCGATGACGTCAGACGAAGATGACCTATGA

>OfusiformisGata4/5/6a\_KR232537

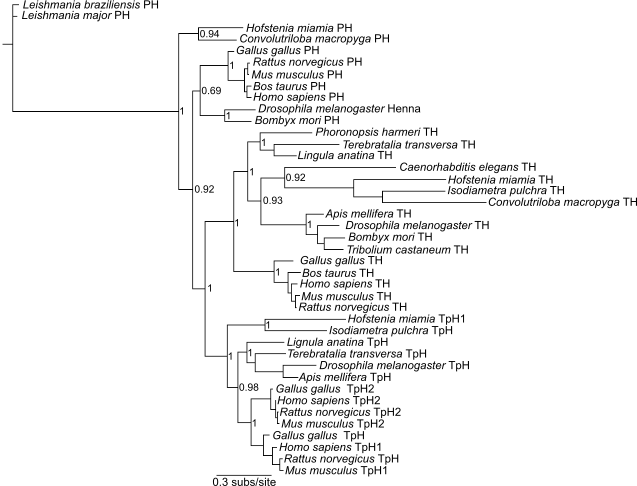
ATGGACAGTGACACCAACTGGTCGGCAGCCACTAGCTCGCACGCTCAATCAGAGATTCAGCCAGCTCGATACGAAAGACCAGGGTCCTCACCACGGGACCAACTTGTTATGCAGGAGAGACCTACTGCACAGAACGCATTGTATCCACTACCCAAGGAAGAAGTTCAGTGTTTCTTTGATCAGCTTAGTGAACCAAATCAGCCCATCCCCGCAAGCACCCTGGCTACCCTAGAAGACCGCAGTATGTTCCAGCAGCCAATGACGGTGGCTAGTCACGCCCCGCCTACCTACCACCACGAAGGTAGCAGCTATTTGCATTCAGCAGCAACCAACCCTGTCTACGTACCAACAACACGGGCTACATTGGGATCCATGCTACCTATGCAATATATGAGCAATGGAACTGGACAAGGATCGCCACAGGGTTGGCCAACACAGGACAATGGCTATTCAACTGCCAGTACCCATCCTTCCATGTCACCTAGATTTACGTTCCCTCCAACCCCAAGTCCCCCTGTCAGTTCTCCAAGCAGTCGCACTGACCCCAGTTACAGTGCACTTACACGGCCTACAGGAATCAGCCCCTATGGTTACCCTGACATCTCTGCCTGGAGCAGCTACAACAACATGGCGTTGTCACCGCAGCAAGGTCTTCCAAGACGCCCCAGTGCAGACCCTGTTGTAGACCCATACGCCAGCAAACACTTGGAGTGTGTCAGATGTCGGAGCGTCTTGTCATCAGCGTGGCCCCAAGAAGGAATGGAGTACATCCAATGTACTATGTGCGGACTCTACCAGCGCCTCAATGGCTTCAACCACGCCATGGCCAAGACCGGCCCCATCAGGAGCTCTAGGCTGTCTGCATCAAGAAGAGTCGGACTTTCCTGTGCAAACTGCCATACTTCACAAACCACATTATGGAGGCGGAACAATGAGGGAGAACCTGTATGCAATGCATGTGGCCTCTATTATAAACTACATGGGGTCAATAGGCCATTGGCAATGAAGAAGGAAGGAATCCAAACGAGAAAGAGGAAACCAAAGAACATGGGAAAAGTCAGAAGCCCAATGAAGTCAGAACCGTCTTCAGATTTGAAGACCTCCGTTAGCTCACCATCAATGGGATCTCTGCACCAGGTCCATAATTCCCAGCAGAGTGCTGCATCAGCCATGTCCGTCATCCATAACACCGGCAACCACGGTCTCTCCGTTAACAACATGATGCTACCAGGCAATACTAACATAAGCACTCCAGATCATAGCCCTAATATAGGCAGTCCAGGTGCTGGTCTCAATCCGGCATCTCAAACTCAAAGTGTCTTCCCTACTCCCTCGCCTCCTAAAGCAGTCCCCGTCAAAATGGAGCCTGGGACTATTATGACACCCTCGCATCATGAAACTACCACCCTAAGCTCAGTCTCTGTGGGAGGAAATTGA

>ScalifornicumSyn\_SCA31175

ATGGCGGATGGGTTTCTACTGCGACGCTTACTGGAAGCAGCGACAGGGGCAGCTGATGTCAGCGATGACACGGCTACTGGAGGGGGAGACACAACAGATGGAGGTGGTGGGGGCGGTGGTGGTCTTGATTTGAACCGAGGAATAACAAACATAGGTAACAAGTTATATGACAAGCTGAAGGAACTACCATTGCCCATGTGGGCCATCATAGCTATCGGCATTGTGGCAGGATTACTCCTACTTTGCTGTTGTATATGTATATGTAAGAAATGCATCTGTAAGAAGAAAAAAAAGAAGGAAGGAAAGAAGGGTTTGAAGGGTGCTGTCGATTTGAAGAGTGTGCAAATGCTTGGAGCTAGTTATAAGGAAAAGGTCCAGCCGGATGTGGAAGAGCTAGATGGTGCTGGAGGAGAAGATCAGGAAGACACGGATTCTGTCAAGTCGGAACTAAAACTGGGAAAGTTACAGTTTTCATTGGACTATGACTTCCAGGAAGGAAAGCTAACTGTTGGCGTGATCCAGGCAGCAGACCTTCCAGGCATGGACTTTTCAGGTACTTCGGATCCCTACGTCAAAGTTTATCTTCTACCTGACAAGAAGAAGAAATATGAAACTAAAGTACACAGAAAGACACTTAACCCAGTCTTCAATGAATCATTTACATTTAAGGTTCCTTACAGCGATGTTGGCGGCAAGATCCTGACCTTTGCGATCTATGACTTTGATCGTTTCTCACGACATGACATCATTGGTGAAGTCAAAGTACCGCTCAGTTCTGTGGATTTGGGTCGTGTTATTGAAGAATGGCGTGATCTACAAAGTGCTGAAATACCTGGTGGAGAGGGCAAGTCTGAGCTTGGCGATGTTTGTTTCTCTCTTCGATATGTTCCCACTGCCGGTAAATTAACAGTTGTGGTTTTGGAAGCCAAGAACCTCAAGAAGATGGACGTTGGTGGACTATCAGATCCATATGTGAAGCTCTCTGTGTACATGGGTGGCAAGAGGATGAAGAAGAAGAAGACAAGCATAAAGAAGAGAACTTTGAATCCATATTACAATGAATCATTTGTCTTTGAAGTGCCCTTTGAGCAGATCCAGAAAGTAACGCTGGTTGTGACTGTGGTAGACTATGACAGAATGGGAAGCAGTGAACCAATTGGTAAAGTTGTACTGGGCTGCAATGCATCTGGTGCTGGTCTTCGTCACTGGAGTGACATGTTAGCATCGCCACGACGACCAATCGCTCAATGGCACACATTGGTTGAACCTGATACATAA

>ScalifornicumSix3\_KX845335.1

ATGTTCCAGCTACCGACTCTGAACTTCAGCCCTCAGCAAGTTGCGAGCGTATGTGAAACGCTAGAAGAAAGTGGCGATATAGAACGGCTAGCCCGATTTCTGTGGTCGCTACCAGTCGCCCCGGGAACATGCGAGGCACTCAACAAGAACGAGAGTGTCCTACGCGCCCGGGCGGTTGTAGCGTTCCACCAAGGTAACTTTCGAGAACTATATAGTATATTGGAAAACCATAAGTATTCTAAGGAATCACACGCCAAATTACAAGCAATGTGGCTCGAAGCACATTACCAAGAAGCTGAAAAATTACGTGGTCGGCCGTTGGGTCCAGTCGATAAGTACCGTGTACGGAAGAAGTTTCCGCTACCGAGGACAATATGGGACGGTGAACAGAAAACGCACTGCTTCAAGGAACGAACGCGGAGTTTACTACGTGAATGGTACCTTCAAGATCCATACCCTAACCCAACTAAGAAGAGAGAACTAGCTGGAGCAACTGGCCTAACACCAACTCAAGTCGGAAATTGGTTTAAGAACAGGCGTCAACGAGACAGAGCAGCAGCGGCCAAAAACAGGCTTCAACATCAAGTACCACAATCAACGTCACCGAATCCTATAACTATAGATGGTGCCACCACTTTGCCAGGACAGCAGCCGAAACCGCGGCCGCTCGATCCAGCGCACGCACTACTCGAAGCCACCCAGAACAAGACACAGTCGCAAACGCACGTATAG



Aromatic amino acid hydroxylase gene tree (PhyML, default settings, aBayes branch support for most internal branches shown, Guindon et al., 2010) showing the relationship between previously analysed genes and genes used as cell markers in in situ hybridization. Leishmania PH were included as outgroups based on previous work (Siltberg-Liberles et al., 2008).