Table S1. The sequences of 9 candidate genes

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| Putative gene ID | Genes sequence |
| CL6641.Contig2 | ATGGAGAATCCGCAACAGGAGGTCGTGAGAGTTCGGTGCCAGCGAATTGGCTGCGACGCCATGTTCACCGAAGACGACAATCCCGAAGGTTCCTGCACTTTCCACGATTCGGGACCTATATTTCATGATGGGATGAAAGAGTGGAGTTGTTGCAAGAAAAGAAGTCATGATTTCAGCTTATTTTTAGAAATTCCAGGATGTAAGACAGGTAAACACACAACTGAAAAACCAGTGTTAAAAAAGGTGGTTGCTGCTCCAAAAGCTTCATTACCTGCTGCTTCACAAGCTCCTGCGTCCAGTACACCATCAAAGGAAATTTGCTCTAGATGTCGACAGGGTTTCTTTTGCTCAGATCATGGTTCACAAGCCAAGGGTCTGAACCAGTCAGCTGCAGTTGCGCCTGCTGAAAATTATTTCGAAGTTCAGGCATCTCCTGCTCCAGTTAAGAAGATAGTTGATATAAACGAGCCACAAATCTGCAGAAATAAGGGATGTGGTAAGACATTCAAAGAAAAGGATAATCATGAGACGGCATGTATGCACCATCCTGGGCCTGCTGTTTTTCATGATCGGATGAGAGGGTGGAAGTGCTGCGACATTCATGTAAAAGAATTCGATGAGTTCATGAGCATTCCACCGTGCACCAAGGGATGGCACGACGCAAATCCAGGATCATGA |
| CL7423.Contig2 | ATGGGCATTACCTCCAACTTGGCCTCCTTCTTTTCTTCTTTTTTTTCTTCTTTCTTTTCTTCGACGCTCACCAAATCGGCATACCCTAGTTTCTTCCTCAACAGCAGCGTTAGCACCGCCGGGTCGAACCCCTCTCCGGTCACCTCGATGTTATCCCCTTTCCACGCCGCGGATTCCACACCAGAAGCTCCAACTACAATCTTCAAGGCCTTAGGGCGGGACTTTTGGCCGTTCATTGTAACTTTGATCACCACCTTTTGCTTCATCGTCTGGTTTTTTGTGATTGTTGAAGATGATACTCTGAACACAAATTGGCTTGAATCAGATTGGAACTGTATGGAGTACTATTGTTGTGGTTGTCAAAAATGGACTTGTGTGGTTTTTAATTTG |
| Unigene5873 | CAAAACTCAGAGATAGAGAGAGAGAGAGGGTGTAGTCACCGGACAGTAGAGAACCGCAGTGAAGAAATTAAAAAAAAAATAAAAAAATCATATTTTTACATGGGTGGTGGTGGTGGTGGTGGTGCTCTGTTTTCTGAAAACATGGTTGCAGTGAACAGGAAAGACAAAGTGATCGAAGAGCTCGTTCAAGGGAAAGAATTCGCGGGTCAGCTTCAGGTTCTGCTTCTCCAGCAACCCTTTGGAGGAGATGGGTCGTCGGCGGCGGCGGAGGAGCTGACGGGGAAGATCTTGAGGTCTTTT  ACAGAGACTCTATCTGTGCTGGGTTGTGGTGGTGAGACTACGTCGTCTGCTGGGGAGGTGGTGGAGGAGGAAGGTGATTCGCTGGTTTCCGGTGGCCGGAGATCGGAGGAATCCGGCGAGAGTAGGAAGAGGTCTATGGGTCCCAAGGGGAGGAGAGGTTGCTATAAGAGAAAGAAGAATTCAGAGACATGGAGAATGATGACACCTATCATTGAAGATGGTTATGCATGGAGAAAGTATGGGCAAAAAGAAATTCTCAATACTAAATATCCAAGGAGCTACTTTAGGTGTACACACAAGTATGAACAAGGTTGCAAAGCTACAAAACAAGTTCAAAAAATGGAAGACAACCCACAAATGTATGAGACCATATACATTGGCAAACACACTTGTAGGAGCCAAATGTCACTCACATCAAAACCACAAATGATCATCACAGACATTAATGGTGGACCTTGGAGGAGTTCTTCTTCTGTGATCAGCTCTCCATCATCATCAACAGCAGTGGTAGTAGTTAAACAAGAATACAATCTCAAAGAAGAAATCAGTAATGGTGGTGGTGGTGATGATTTTTCAGAAAACCTATCATCATCTCATCATCTTGGTGACCATGAGCAGCAGATGGAATATTTTTCCATGTGGGATGATCTGGACCCTTTAAATCATCATCATCAAGTTTCTATCACCACCACAACTTGCCATCAGGAAAATTTCCACATTGATTTTGATAGTGAACTTTATTTTGATGAGAGTGATTTATTCCAGCTAGCTAGCTAA |
| CL1401.Contig2 | ATGGCACAGCTCGCAATTAAAGCAGCAATAAGTATACTTGGTAGTATAGTCGAACGTGTAGATCTAAGAAGCTCACAGTTTGATGTCGATGCAGCGAAAAATTTCATGAACACCATGAAAGCTTACCTGATTGATACAGAAGGAAGAGAAGGCACCGAAGGCTTCAAGGATCGCGTTCAACAAGTGCGTGATGTGGCCTACGAGATCGAGGATGTTATTGAAGAGTTCATGCTTGAAGTGCCTGAACACTTTCATGAGCATAGAATCACCAAATATCTTCATGATTCTGGTCATTTTGTCAAAGACCAAATGGCTGTCCAAAGATTGTCCTCGCGTATGGAGGCTATCGAGGTCAAGATTCATAAAATAAAAGACATGGATTCATTTCGCATTTTCCCCCCTGAAGGAGCCTCGAGTTCTCGTGGTGGGGAACAAGAAAATGAATTAGTTGGCATTGAGAAATGCTACAACAATCTTTCCCCAAATCTCAGGTACTGCTTCTTGTACTTCTGTAACTTCCCTGCGAACTATTTTGTTACGCGTGGAAGACTTTTTCGCTTGTGGATAGCTGAACGGTTCATAGAGGAGGAGGGAAGGAACAAGACAAAGGAGGATGTGGCTGATGAATACCTCAACGAACTCATTGAAAAGAACTTGGTTTATGTCTATGGTAGACGATTTGGGGTTCCTCAACCTGTGCGAGACTTCATCCTTGACAAGTCTGAAATGAAAATTTTCTGCACCGTTCTGCCGAGACCAAACGGTACAATTCCAATTGAGAAAAGCAGGCGCTTATCTCTTCACAATGGATTCACCGATTCCTTACGAAGCAAGGACTTATCTTGTGTTCGTACCCTGATGACATTCAGGAGAGACTCCGAATTAAAAGCTGAGGAATTGCTCAACAAATTTAGATTGTTGAGAGTTTTGGACTTTGAAGATTCAGGTTTGCAAACTTTTCCTGAAGAGGTGGTCAAACTCACACTCCTAAGGTATTTAAGTTTCAGGAATACAAACATAAAAAAAGTTCCTAGATGTATTAAGAAACTTCACAGCCTTGAGGCTTTGGACCTTAGACAAACATGTGTCAAGAAGTTGCCCAAGAAAATCCTGAAACTTCAGAATTTGTTGTATCTTTTAATGGACCAAAGACTAGGTGTTGATGAAGCTCGTGAAGGAGTCGAATTGCCTGCAGGATTTGAACGTTTAAAATCATTACGGAAGCTGTCTCTTGTCAAGGCAAACAAAGAGAATCGGAGGATCATAAGAGAGTTAGGAAATTTGATTCAACTCAGGAAACTAGGGATCACAGAGCTTGAAACGAAAGATGGAATGGATTTCTGCGCGTCCATCCAAAGCATGGAGTATCTTTCCTCTTTATCGGTGACAGCAGCCTACAGAGATGATGAAGAGGGGCTTCTTGATCTGGATCATGTAAGGAAACCTCCTCCTTTCCTTCACCGTATAAGTTTAGGAGGTCGTCTACAAGACATTCCACAGTGGATTAGCTCATTGCAGAGTCTTGCAAGTATATGTCTTAAAGGTTCCAAATTAGAGAATAGCCCTCTTGATGCCCTCCAAGCTTTGCCTTGTCTTGTGGAGCTCAGGCTGGTTGATGCATACGTTGGGGAAGTGTTGGAATTTGAACCCGGGTGTTTCCTGGAACTAAGGGTGTTATATCTTCAACAATTGGATGGATTACAAAAGGTTTCAGTGAAGACCCGCAACGCACTTCCTAAACTTCAGAGGTTAGTTTTCAGAGGATTTCAAAGGTTGCCAAAGTTTCCTTCTCGATTCCAGCAACTAATTAAAGAGGAGTAA |
| CL2285.Contig2 | ATGGGAGGCAAAAATTATCTTGGTTTTGTGATATTTTTGAGTGTTTTAGGATTTATAGGCTCATGTCAAGCTCAGTTGCAGATGGGGTTTTACTCTAAGAGCTGCCCAAAAGCTGAGACGATTGTGCTTGATTATGTCAAAAAACACATCCCAAATGCACCATCACTCGCTGCAACTTTCATCAGAATGAATTTCCATGATTGTTTTGTCAGGGGTTGTGATGCTTCTGTGCTTCTAAACTCAACTTCAGGAAACGCTGAGAGGGATGCAGTTCCAAATCAAACACTGAGAGGTTTCGGCTTCATTGACGCTATCAAGAGCCTGCTTGAAAAAGAATGCCCAGGCGTAGTTTCATGTGCAGATATCATTTCTTTAGTTTCAAGAGACTCCATTGTACTCACTGGAGGTCCTTCCTGGCAAGTTCCAACAGGAAGAAGAGATGGGTCAATCTCCAGGAGCTCAGAAGCTACCAGCAACATCCCATCTCCATTTTCAAACTTCACAACTCTCCAGACACTTTTTGCTAATCAAGGACTTGATTTGAAAGACTTGGTTTTGCTCTCCGGTAAGTATCAATTTTTCTGGAAACAAAATCCAGAACTCGGTTCGAGCCCAGACCTCTTCCAAAATCTTGAAATATTGTAA |
| CL3396.Contig3 | ATGGTTTCCAAAGCACTCTTCTTCTTTGCTTTGTTGTCCTTCTCAGCTGTGTCTCTCAGGCCAGCGGCTTCTGCAGAAAATGAAGAAGACCCTGGTCTTATGATGAGCTTCTACAGAGATACATGCCCTCAAGCTGAGGACATTATCAAAGAACAAGTCAAGTTGCTTTACAAGCGCCACAAGAATACTGCATTCTCTTGGTTGAGAAACATCTTCCATGACTGTGCTGTTCAGTCATGTGATGCTTCATTGCTGTTGGACTCAACAAGGAGAAGCTTGTCTGAGAAGGAAACAGACAGGAGCTTTGGGATGAGAAACTTCAGGTACATTGAGACCATCAAAGAAGCTCTTGAGAGGGAGTGTCCTGGAGTTGTCTCATGTGCTGATATCCTTGTGTTGTCTGCTAGAGATGGCATTGTTGCTCTAGGAGGTCCTTACATTCCTCTGAAGACAGGAAGAAGAGATGGCAGGAAGAGCAGAGCAGATATCCTTGAAGAATACCTCCCTGATCACAATGAGAGCATGTCTGTTGTCCTTGACAGGTTTTCAGCCATCGGTATTGACACCCCTGGAGTTGTTGCTCTGCTAGGAGCTCACAGTGTTGGAAGAACCCACTGTGTGAAGTTGGTGCACAGATTGTACCCAGAGGTTGATCCAGCTTTCAACCCTGACCATATTGACCACATGCTCCACAAGTGTCCTGACCCAATCCCAGATCCCAAGTCTGTGCAGTATGTGAGAAATGACCGTGGCACACCCATGATTCTAGACAACAACTACTACAGGAACATTTTGGACAACAAGGGTTTGATGTTGGTGGATCACCAACTAGCTGTAGACAAGAGGACCAAACCATTTGTGAAGAAGATGGCCAAGAGCCAAGCTTACTTCTTCAAGGAGTTTTCAAGAGCCATTACCATACTCTCTGAGAACAACCCTCTCACTGGTACAAAGGGTGAGATCAGGAAGCAGTGCAATCTTTCCAACAAGCTGCACTAG |
| CL6251.Contig1 | ATGAAGCTTGAAGAATATTACACTGCTAAATCAGCCCTTGAAAAAGGTAGCTCTTTGGCAGAGAATGACTCGAGATTTACCAAGTTGATTGAAGAATGTGATAAGTCTATTGCTGAGGAGAACAACGATCTGGCTAAGCCATTGTCACCCGATTTGACAACAAGCTCCACTCCTTTAACGAAGCCAGTCACATCCATCAAACCAAAATACAGACATGAATTCTACCAAAAGGCGGATGAAGTGGTTGTGACCATTTTTGCAAAAAGAATACCAGCAACGAGTGTGACTATTGAATTTGGCGAGCAGATCTTGAGTGTTACCATTGATGTCCCTGGTGAAGATGCTTATCATTTTCAACCTCGATTGTTTGGAAAGATAATACCTGGGAAGTGCAGATATGAAGTATTATCAACCAAAGTTGAAATCCGTCTTGCGAAAGCTGAAGCTATTAACTGGACATCTCTTGAATATAGCTCGGAAATTTCAGTTTTGCAGAAAGTAAATGTGCCACCAGTTGCATCTCAGAGGCCTTCATATCCATCTTCGAAGAAAACAAGAGACTGGGACAAGCTGGAAGCCGAAGTAAAGAAGGAGGAAAAAGAAGAGAGACTAGATGGTGATGCTGGTGTGAACAAGCTGTTCCGGGACATTTATCAAAATGCAGATGAGGACATGAGAAGAGCTATGATGAAATCTTTTGTGGAATCAAATGGAACGGTGCTTTCAACGGACTGGAAAGATGTGGGTGCAAAAAAGGTTGAAGGTAGTGCTCCCGAGGGTATGGAGGTGAAGAAATGGGAGTACTAA |
| CL335.Contig5 | GACTTTACCCAATCTTTTCCTCTGCAAAATTCACAGACAGAGAGAATGAGTGGAGAAGGGAAAGTGGTGTGTGTAACAGGAGCTTCGGGTTACATAGCTTCGTGGCTGGTCAAGCAATTACTCCAACTTGGTTACACTGTCAAAGCCACTGTTCGTGACCCAAATGATCCCAAGAAGACAGAACATTTACTTGCACTCGATGGGGCTAAAGAAAGACTTCATTTTTTCAAAGCAAGCTTGTTGGAAGAAGGATCTTTTGATTTTGCAGTTGATGGTTGTGATGGTGTTTTCCATACAGCCTCCCCTGTCCTTCTATCCTCCAAAGTCTCTCAGGCAGATGTAGTTGACCCTGCATTGAAAGGAACACTTAACGTTCTTAGATCATGTGCTAAAGTTCCATCTATCAGAAGGGTCATCTTAACATCTTCTACTGCAGCAGTTTTATTCAACGGAAAGCCTCTTACTCCTGATGTTACGGTTGATGAAACTTGGTTTTCTGATCCGGCTTTTTGTGAGAAATCAAAGCTTTGGTATATTCTTGGGAAAACCTTAGCTGAGGAGGCTGCTTGGAAGTTTTCAGAAGAGAACCGAATCAATATGGTTGCTATAAATCCAGGCATGGTAATCGGTCCTCTCTTACAGCCAACACTTAACGACAGTGTCAAGCCTATTCTGAATCTCATAAAAGGAGTACCATGTTGGACTGATGGATGGGTTGATGTTAGAGATGTGGCGAAGGCACATATTCAAGCATTTGAGAATCCCACAGCATGTGGTAGATACTGTCTGGTTGAACGAGTTGTGAACCATTTTGAAATTTTTAAGATTTTACGTGGGCTTTATCCTGATTTAAATCCTCCCGAAGAATACTCGGAAGAGAAAGCTTCCGAACCAACCTACCGGGTGTCCAAAGAGAGAGTGCAAAGTCTAGGCATCACCTATATTCCCTTTGAAGTGAGTTTGAAGGATACCGTTGAAAGCTTGAAGGAGAAAAACTTAATCAATGCCTGA |
| CL5835.Contig1 | CTCCCTTTCACCAGCTCCCCTCTACTACCATCACCTACTTTTATATTACCTCAACCAATACTAAAACCAAATCAAAAAATTAAATTTAAAAAGAAAAAAAAAAAAAAAACCGAACTCTCACCTTCTCTTTTGTTTCCCAAAATCTTCTCTCACTATCTTTCTGTGTTGACAACAACAATGGAGGGCAAAGAAGATGAACATGAATTCATATTCCGATCCAAACTTGCTGATATTTACATCCCAAATCACCTCCCTCTACACACATATTGCTTTGAAAACATTTCTCAATTTAAAGATCGTCCCTGCATCATCAACGGCCCCACCGGTGACATCTACACATACGCTGATGTTGAACTCACTTCACGCAAAGTTGCCGCCGGTCTCCACAAATCCGGCATCAAAAAAGGTGACGTTGTCATGCTTTTGCTCCAAAACTGCCCTCAATTCGTGTTTGCATTTCTGGGTGCTTCCTATATCGGCGCCATAAGTACTACGGCGAATCCTTTCTACACTCCGGCAGAGATTGCAAAGCAGGCAACGGCTTCCAAGGCAAAGCTGATCATAACGCAAGCCCTATACGCCGAGAAAGTGAAGGACTTGGCCGAAGAAAGTGGATTCAAAATCATGACCATTGATTCATCTCCTGATCAAAATTGTTTACATTTCTCTGAGTTGACTAAGGACGATGAAAACGACATCCCCGCCGTGAAGATCAACCCGGACGACGTGGTTGCACTTCCTTACTCGTCGGGGACCACAGGGTTGCCTAAGGGAGTGATGCTGTCACACAAAGGCCTTGTCACGAGCGTGGCACAACAAGTTGATGGAGACAACCCTAATTTGTATTTTCACAAAGAAGATGTCATTTTATGTGTGTTGCCTTTGTTTCATATTTATTCGTTAAATTCGGTGTTGCTATGCGCTTTGAGAGTAGGCGCGGCCATCTTGATTATGCAAAAGTTTGAGATCGTTACATTGATGGAGCTTGTCGAAAAACATAAGGTCACAATTGCTCCCTTCGTCCCTCCAATCGTTTTGGCCATAGCCAAGAGCCCGGACCTCGATAAGTACAACCTTTCGTCCATTCGAACCGTCATGTCTGGCGCTGCGCCCATGGGGAAGGAGCTTGAGGATGCCGTGAGAGCTAAGCTTCCTAATGCCAAACTTGGACAGGGGTATGGAATGACAGAAGCAGGGCCAGTGTTGTCAATGTGTTTGGCATTTGCAAAGGAACCGTTTGAGATAAAATCAGGTGCGTGCGGGACCGTGGTAAGAAATGCAGAGATGAAGATTGTTGATCCTGATTCCGGTGCCTCCCTTCCTCGAAATCAATCTGGTGAAATTTGCATCAGAGGAAGCCAGATCATGAAAGGGTACCTAAATGATGAGGAGGCAACAGAGAGAACGATAGACAAAGATGGATGGTTGCATACAGGTGATATAGGGTTCATTGACGATGATGATGAGCTCTTCATCGTTGATCGATTGAAAGAATTGATCAAATACAAAGGCTTCCAAGTGGCTCCCGCCGAGCTCGAAGCTATGTTGATTGCCCATCCTAACATCTCTGATGCTGCTGTTGTCCCCATGAAAGATGAGGCCGCAGGAGAAGTTCCTGTGGCATTCCTTGTCAGATCAAACGGTTCTAAAATCACTGAGGATGAAATCAAGCAATACATCTCCAAACAGGTTGTATTCTACAAGAGAATTAGTAGGGTTTTCTTCACAGACACAATTCCAAAAGCACCATCAGGCAAAATCTTGCGTAAAGACTTAAGAGCAAAGCTGGCCGCTGGTCTGCCCAATTAG |