**Supplementary Material**

**Effects of Insecticides on** [**Protective**](http://cn.bing.com/dict/search?q=Protective&FORM=BDVSP6&mkt=zh-cn)**and Detoxifying Enzyme Activity, and Expression of ABCG subfamily, *Sogatella furcifera***

**Cao Zhou1, Hong Yang1, 2\*, Zhao Wang1, 3, Gui-yun Long1, and Dao-chao Jin1**

1Institute of Entomology, Guizhou University; Provincial Key Laboratory for Agricultural Pest Management of Mountainous Regions, Guiyang 550025, People’s Republic of China

2College of Tobacco Science of Guizhou University, Guiyang, 550025, People’s Republic of China

3College of Environment and Life Sciences, Kaili University, Kaili, 556011, People’s Republic of China

**\* Correspondence:**

Pro. Hong Yang

maximus@gmail.com

E-mail address: axyridis@163.com

>*sfABCG1*

ATGGATAATCCTCCGACTGTGGCCAATATAAACCACCTCATTCAGAGGCCACCGGTTGATATAGAGTTCACAGACCTAACATACACAGTTCCTCATGGAAGAAGTGGATCCAAGATTATCCTGAGAAGTGTGAGTGGCTTATTCAAATCAGGACAGTTGACAGCGATCCTGGGACCGTCTGGAGCTGGGAAGAGCACGCTTCTAAATGTCCTCGCTGGATATAAATGCGCGGACTCAACTGGTTCCATTCTGGTCAACGGACGTCCAAGAGTTCTGCAACAGTTTCGAAAATTATCCAGATACATAATGCAGGAAGATATGCTGCAGCCTCGGCTCACTGTGCAGGAATCCATGCTGTTCGCTGTCGATTTGAAACTTGGAACCACCATTTCACAAGAAGAAAAGCTTGATACTATTGATGAGATTTTGAACATGTTGAGGCTTTCGAAGACGAAGAACACTCTGTCCGGCCATTTGTCAGGTGGTGAGAAGAAAAGGCTGTCCATTGCACTGGAACTAGTGAACAATCCTCCTGTCATCTTCCTCGATGAGCCAACCACGGGCTTGGATGATTTGGCCAGTTCACAATGCATATCCCTGTTGAAAGCGCTGGCGAGAGGGGGTCGCACAGTGATCTGCTCCATCCACACTCCGAGCGCGCGACTCTTCTCGCTGTTCGATCATGTGTACGTTGTGTCGGAAGGCCAGTGTGTGTTCCAAGGCCATGGACACGATATTGTCGATTTTTTGGCCTCATTCGGTTTGAACTGTCCCAAGCACTATAATCCTATTGATTTCATGATTGAAGTATCAAGTGGAGAGTATGGTGATTATCTCGAGAGAATGACGAATGCCGTTGAGAATGGGAGATGCTACAGGTGGAGTCAAAACAAAGTCACTGATGTCCGATATCAATCAACAAATGAAGAGGAAGACAATCTAGTCAGCTCAGATCTCCATCACATGTATCATTTTGAAAGTTCAGCGTGGTTGCAGTTCAGAATATTAATTAATAGGATGTCTCTACAAGGTAGAAGAGATATGGGATATATTATATTGAAATTAGCAATGCATATTTTCATAGGACTTATAATTGGAGGGATGTTCTTCCAAATTGGAAACGATGGATCAAAGACTATTTTCAATTTCGGTTTCTGTTTTGTAACTATTATCATTTTCTTGTACATACCGATGATGCCAGCGCTTCTATGGTTTCCACAAGAAGTGCAGCTATTGAAGAGAGAATTCTTCAATCGATGGTATGATCTTAATCCATACTTCTTTGCCATGACATTCTGCCAGTTACCGCTGCAAATTGTTTTTGGAATCGGTTACACGTTACTAACTTACTTCATGACTGATCAACCAATGGAGTATGAGAGAGTTCTGAAATTCATCCTGGTGTGCCTGATGATCTCTATTGTGTCAGAAGCCATGGGCTTGGCTATATCTGCTCGACTGAATATTGTGAACGGAATATTCGTAGGGCCGGCTGTTTCAGTTCCCCTGATGTTGTTGGCTGTTTACGGCCTGGGCACAGGCAGCAAATACATCCCGAAACACATTCGATTCGCCATGTACTTCAGCTATTTGCGCTACGGCTTGGAAGGACTGATATCCTCCATATACGGCGGCGGACGTAGGAAAATGGTCTGCCCCGATTCGGAAATCTACTGTCAGCTGAGAGAACCGAAAGCGCTACTGAAGGAAGTTGGTATGGAAGATGTTAATTATTGGATGGATATAGCTGCCTTAGCTGTGTCATTTTTGGTTTTCAAGATTATCTGTTATGTACTGTTGAGAAGACGGTTAAAGTCGACCCAATCTTTTGGAGCCCTTGGTTTTATTGGCAGATTCATCAAGACCCATTTCAACCTAGCTGGAAATATAGGAAGGTAA

>*sfABCG2*

ATGTCAGCTTCAACTTCGTCAGCACTGGAGAGTATTGTTGAAGTTTTGCCATGTCCAGGAGGAGTAGGAGACGCCGGAGTCGAGCCGTTACCGGGCTGCAGCGGCGAAGGGAACGCCAAGGGCGCACCATCAACTAGCAGCCGTCACCCGCCCGTGCCCGTCACACGGATTCCAACGCGGCTCGGTCTCACCACGTTGACCAGAATGGCGAAACGGCCCGCAGTCGACATCGAGTTCCAGGATCTCTCCTACACGGCTGGAAGTCGAAAGATTTTGAAATCGATATCGGGATGCTTCAAATCGGGAGAGATGACCGCCATCATGGGTCCTTCAGGAGCTGGAAAGAGTACCTTGATGAATATCCTTGTCGGATATGTGACAAATGGAGTATCGGGAAGTATAATGACAAACGGATTCCCACGACAAATCAAGCTGTTCAACAAGCTGTCATCCTACATAATGCAAGAAGACCTGTTGCAGCCCAACCTCACTGTCAGGGAGTCCATGATGATTGCTGCCAGACTAAAATTGGGAAACGAATTATCGGACAGGGATAAGAATGCTGCTGTGAGAGAAATTCTAGTGACCTTGGGTTTGACAAAGTGCGCGGATACGTTTACAGACCGTCTGTCGGGCGGTCAGCGCAAGAGGGTGTCTGTGGGACTTGAACTTGTCAACAATCCACCGGTCATATTTCTGGACGAACCGACCACAGGTCTAGACATAGTGGCCATCAATAACTGTATAGAATTGTTGAAAGACCTATCAAGTCAGGGCAGGACCATTGTGTGTACCATCCACCAGCCCACTGCATCCATGTTCAACATGTTCGATAATGTATACATGCTAGCCAAAGGCCAATGTATCTATCACGGCACTTCGCATCAACTGGTGCCTTTCCTCAGCAGTTGCAATCTTGACTGTCCCCCCACCTATAATCCAACCGATTTCGTTTTTGAAGTTTTGGAAGCAAATCCAGAATTAATTAAAGTGATGAACTCAGAAATACAGAATGGAAGAGTCATCTGGTTGGATCCAACAGATAACCCTGAGCCAAAGTCAAAACTATGTAGGAAAGATACCCTAGCTGTGATGCCCAATGTTATTGGATCGGATAGTGTGATACACTTCCCAACATCATTTTTCGAACAAGTAACAATCTTGCTGAAAAGAATGATGAAACAAAAATGGAGAAATTCGACTGCCATGAGGTTGCAAATGATCCATCATTTGTTTTCTGGACTGATTGTTGGTTCAATATTCTATGGAATTGGAAATAATGCCAGCAAGCCGTTCGAAAATTTCAAATTTGTTCTTTGTGTAGCTGTTTTCTTCATGTATACGCATGTTATAACGCATATCTTGACTTTGCCAAATGAAATAAAAATAATGAAAAGAGAGTATTTCAACCGATGGTATGGACTCAAAGCCTATTTCACGGCACTCACCCTACATACAGTTCCTACTACTATAATTTTGGGCATGTTATTCAACACAATTGTCTACATAATGGCGGATGAACCATTGGAGCTTCCCAGGTTCATATGGTTCAGTTCGTTTACAATAATGGTGGCTCTAGTCTCAGAGGGACTGGGTGTACTTATCGGCTGTAACTTCAATTGCACGAACGGAGCCGTAGTCGGTCCCTCAGTGATGGCGCCCATACTGATGATCGCCATCCACGGCATGGGTTACGGGCTGCACATCAAGCCCTTCATGCAGAGCTTAATGAAGCTGAGCTTCATCCGCGTGGCGGTGGTGGGCATAGTGACCAGCCTTTACGAGAACGGTCGTGGTCCCATGGAGTGCAAAACGCAGACGCATCCCTACTGCCACTACCGCGACCCCTACATGCTGGTCAGAGACCTGGGCATGACCAATCAGAGCACAGTGCATCAGATTTTAGGTCTGATCGGGTTTCTGCTGCTGTTCAGGACGGCCGCGTTTTTGACGCTGCGCTACACACTGATGACGGACATCAGGAGTCAGGTGTTTGCATACACTAAGAAAATATTCAAGCGCAACAAGGAGAAGCGCCTGTTGTTGTCCGATGACAAGTAG

>*sfABCG3*

ATGTCCGGCATATTCAAGCTATTCAATCTCAAGACTGGGAGCGTTCAAAAGGAGTCATCGCATAACATCTACACGGTGGACCTAACGCAGGATGGCACAGACCAACAATCGGCTTTCTCGCTCAAGCACCTCCCGAAACGACAGCCAGTCGATATCAAATTTATCGATTTGAATTACTCAGTACCTGACAATTCGCGCTCCGGTTCGAAAAAGATTCTAAATGATTTGCAAGGAGAATTCAGGTCTGGAGAATTGGTGGGAATACTGGGACCGTCCGGCGCTGGGAAAAGTACACTGCTCAACGCCTTAGTGGGGTTTGGAACCAAAGGCAGGTCGGGAACAATACTGGTGAACAATCAAGTGATGGACGCCGAATCGTTTCGTAAAGTGAGCTGCTACATAATGCAAAAAGGCGAGCTACTGCCCTACCTGACTGTCGGCGAGGCTATGATGGTATCCGCCAACCTCAAACTGGGGACATCGGTCAGCAAATCCGAGAAAAAAGTTATTATAGACGAGATTCTAACAGCAATTGGTCTGGATAAACATATCGACACGTACTGTAAAAATCTATCTGGCGGACAGAAGAAACGACTCCTGGTGGCTGTGGAACTAGTTTATAATCCACCTCTCATGTTCCTTGATGAGCCTACAAGCGGCCTAGACAGTTCATCTAGCGTACAGTGTGTGTCGCTGCTGAAATCGCTAGCTCAAGGCGGACGCACAATAGTGTGCACCATTCACCAGCCAAACGCGCGCACATTTGAATTGTTCGATCAGCTGTTTGTACTGGCACCCGGACACTGCATCTACCAGGGCCCTGTGCACTCGCTTGTCCCCTTCCTTGCCACTCACAGCCTCATCTGTCCCAGCTACCACAATCCGGCCGATTTCGTAATTGAAGTTGCAATGGGACAACATGGACCAATCCAGGCTCTCACAAAGGAGGTTAATAGAAACATAAAGGAGAAATTCAAGGAACAAGAGAACAGAATATGTGATAAGATCAATGAAATTGACCAACCAAACAATAGAAATTCCATATCAGGCGAAAAATTCAGGATATTATCCAGTGAGCTTGAGCTATCTCCAAGAGACGAGAACTCTTTCAATAGTCAAAAAAACGAAGGAGAATTCGATGTTTGTGAGAGACCCTCAAGCTTATTCCAGTTCTATGTTTTGTTGAGAAGAACACTCACGTCAACATTAAGAGATATTCATCTGACCCATCTTCGATTTGTTTCCCATTCTGTAATTGGTCTACTGATTGGCTACCTATACCTGAACAAAGGCCAAGACGCCAGCAATATCATCAACAATGCTGGCTGCGTTTTTTTCACAGTAATGTTTCTTATGTTCTCATCAATGATGCCCACCATTCTCACGTTTCCATTGGAAATGGATGTTTATAAGAGGGAACATTTAAACAACTGGTATTCACTTGGACCATTATATATGGCGAAATCTCTAGTGGATATTCCGTTTCAGATGGTTTATACAATAGTCTATATCTCAATAGTCTACTACTTGACTGATCAACCTCAGGAGATAGAACGATTTTCAATGTTCTTGTTTGTGAGCATTCTTATGTCTTTGGTGGCTTCAGGCATAGGTCTTCTAACTGGGACAGCATTAGCTATAGAAACCGGCACCTACTTTGGACCCGTCTCTTGCGTACCCTGCATCCTATTCTCAGGCTTTTTTCTTTCACTGGACTCCATTCCCAAAAGCCTGCGATGGCTGGGCAACATCTTCTACCTGCGCTACGCGTTTGAAGGCAGCATGCTCTCGATCTATGGCTATGACAGACCCAAACTCGACTGCAGCGAAGTCTACTGTCATTTCAGGGTACCATCTCAATTCCTCAAACATTTAGGCATGCAGGATGCCTCCTATTGGTTCGACTGTTCGGTGCTGTTCTTTTTTATTGTGCTGCTCAGACTGGTTACCTACTTTGTGCTTAAGTATAAAATCAAAAATTTCACTCCCTAG

>*sfABCG4*

ATGAGTAGATCAGTGGCCAATAAAGTTTCTCTACACGATCCTTTGTGTTTGACGTTTCGTGACCTAACGCATGAAGTAAGATGCGGTGAGGGATTTCGTTTCATGAAAGAGACAAAATGCTTACTCAATGGAATTTCAGGCGAGTTTTATTCAGGAGAGCTCTCAGCTATAATAGGTCCATCCGGATGTGGAAAAACTACCCTCATGGACATTTTATCTGGTTACATAGAACTGAAGGCAGGGTCGATCCATTTTAATAGAGCTGAGGAGAATAGGAGAGTTCGTTGCTGCTATATAATGCAAGACGACATTTTGCAACCTACACTAACTGTTCATGAGACTATTAAATTCGCAGCTAAATTGAAAATCAAGTCAAGGAGTCTTCAGGAGAAAAAAGTGAAAGATATTTTAGATATAGTTGAGCTTTCAGGAAATTTGAAATCACTAGTCTGCAATCTATCGGGAGGTGAAATGAGAAAACTATCAATAGCTGTTGAGCTTCTCACTGAGCCTTCAGTTATGTTCCTGGATGAACCTACAAGTGGATTGGACATTTCATCGGCAGAAAAGTGCATGAGAGCATTGAAGGCCGTTGCTAGCAAAGGAGTGATGGTGGTGTGCAGCGTGCATCAGCCCAGTGGCGCCATGTGGAACTTATTCGATCACGTCTATGTGATGACAAGCGGAATGTGCACGTTCCAGGGCTGTCCAAGAAGATTGATGGACTATCTTCACTCACTTAATCTCACTTGTCCTATAAATTACAGTCCTGCTGACCATATTTTAGAAGTCACTCTTGAAGAATACGGAAATAACCTCACGCGATTGGTTGGTGCATCTAGAAATGGAGCCAGTAGAGAATGGAGACATAGACACAGACAAATCTCCAATGAAGGTGATAATGATAGAATTGATTCAGAGAAATCAACGCTTCTGAATTCTATCATCCTGGGTCAAAAATACTATGTGATTCCATTCATGATACAATTTCTTATTCTTTTGCAAAGAAGTGCATTAGGACTGATAAAATCAAAGGAAGCTATACGAATCAAGCTCATGATCCACCTGATAGTGGGAATTTCCTTTGGAATGATCTACTGGAGAATAGGGGTTGATGCATCACATGTGCGTGACAATCATAGTCTTCTTTTCTACACCGTGGCATTTATAATGTTCACAGCTTACTCAGGAATGATTCATGCCTTTCACTTGAAAGTGCGAATTACCACTCGTGAATATTTCAATGATTGGTACTCGTTGAAAGCATTCTACTTGGCCGAAAATATTGTAGACATGATCTTTCAGACATTGTGCTCAACGTCAATGTGTCTATTGGTTTACACTTTGTCAGGACAGCCGCTGGATCCCGTACGGTTTTTTCTATTCTCCTCAGCCATTGCCATGATAAGTCTTATCTCCCAAACATGGGGCATCTTGATTTGTACAGTGCTACGATTGAAGCACGCAGTAGTGTTTGGCTCTTTGTCAATCATGCCGTGGGTGGTATTTGCCGGCTACTTCCTGCGTCTAGAAGATGCGCCCTGGTTCATGCACTGGCTGTTCCAAATCAACTTCCTCAAGTACGGCTTCCAGTGCGTCATCCTATCAGTCTATGGCTACAACCGTCCTCGCTTGTCCTGCTCAAAAGATTATTGCCATTTTGTGTTTCCACAAAAATTTCTAAATCACCTTCAGTTGCAAAATGAAACATTTTCATTCAACTTTTTGATCCTGGTGACAATTCTCATTCTATCCAAGACTGTAACATTCTATGTGCTCAAATATCAATTGAAGCACAAGAGAAAAAAGCTTGATGATGAGTGA

>*sfABCG5*

ATGGTGGGCCGGCAACAAAGAGACATGGAGAGGAGGTACTCGATAGCCGAGGTGCCTTCTGAGTTGAGTGGGATGCCTCCTCCCGGCCTGATGCCTTCGGCTTCAGAGGACCTGCATGCCTGGTCTATCTATAGGCAAAACCTGAACTCAGACTTTACAGATTCGGCTCTGGGCTCAAGTGAAAAATCTCCTCTTCCATATGGCAACTTTCAACTTAGGGAATCGACTGTCCAGTCAATTCTCAGTCACCCTCGATATGGACCCAAATCAGCTTTGGGCTCCAACATGTACACCTACCTGAAGTTTGGACTTCCGCGCGTCTTCCCCCCGAACGGCGGGAGGGGCGGACGCGACGGTAGCAGCGGCTACGACAGCTCGGACGACGGTATGGGACACGGACACGGACACGGCACTGCGTCCCGGACCGGGCGTCCCGGACACGGAGCGCGGACAAGACACGCCAGTCAGCAGCATTTGCAAGCACCGTCCGGGTACTATTTAAGGGCTAGGAGTGATCCGGATTTTAGAAATACGCCGTATCATGGGCCAAGCATGCCTCTCAGACAACAGATGCCGGGTGGTCCGCCCCCTCATCACATGGGGGGTGCCGGCGGTGCCCCCCCAGGCGCCCGTGGCAAGAGTGTGAGCGAGGCCAACCTGCTGGCGCCCGAAGTGATGCTACGCCACAATGTGGCGCCCCACGAACATCGGCGCAGCGTGCATGATCTTAGGGGCGCCGCGATTGCCTACTCAGAACTGGGCGCTGCACCACATGTACTCGTGCACCCGGCTCGACATGGCGGCCGACCAGCCTCAGTTGCAGTCGTTGGTCACCACCCTCTGGCTCATCACCATGGAAGTCACTCCGTACTAGACGGGGGTGGTGGAGGGGGAGCCCCTCCCAGCATGCTCGGCATGCCTCCCCCCTCCTCGCGTGCCTCCCACTCTGTGCACCCCCCTCCACCCGGCATGTCGTTCCAGGTGCATCGCGGAGAGGCGTTTGGCGGACAGTATCCGCACTTACAGGTAAGGGGTTTGGATGTAGATGGTAAGAACAATGAACCCCTTCTTCAATCGGTATCATTCGAGGCGAAGGCTGGAGAAATATTGGCCGTTATGGCAACACAAGTGGACGAAGGCCGTGCCATCCTGGACGTGCTGTCGGGCACAAGGCGAGCAAGGACCGTTCACATCGTGCTGAATGGACAGAGCATCGGACAGCGTGTGCTGAGGAGGAGGGTGGCCTATGTTAGGAGTGACTGCACTCTGGCGGGGAGTTTGAGCGTTTCGCAGACGCTTGCTTTCTACTCGAGGCTGAGGAGACCACCGTTGGGACCCACCAAAGTGTCATCTACTGATCAGATGGACCTACTGATAGAGGAGTTGGGACTCAACCAGGTTTTGGACACAAAAGTGGCCAGTCTGACTGATTCCGAGGCGCAAAGACTGAGTCTGGCCTGTCATCTAGTCTCTGATGCTGAAATACTTCTTCTAGACCGTCCCACCCGATCTATGGATATTTTTGATACCTTCTTTCTGGTGGAGTTTTTACGGCAATGGGCCGGAGGTAGTAGTACAGGCGGCCTAGTCGGAAGAATAGTGGTGCTTACCATTCAACCGCCAACTTACGAAATTTTCACAATGGTGTCGAGAGTGCTGCTGCTATCTGGTGGCAGAATGATGTACTCGGGAAGACGCCGTGACATGTTGCCATATTTCTCAGCCGCCGACTATCCCTGTCCTGCTTTCAAAAATCCCTCCGATTATTACCTTGATTTGGTAACCCTGGACGACCTTTCGGCAGAAGCCATGCTGGAATCGTCGCAGCGCATTGAGCAGTTGGCAGAACTGTTCAGAAGGCGGCAAGAGCCTCTGTCCGATCCAGGTCCGCCACAAGCTCTTCCCGGCAAAACACGGACGGCCAATGTCTGCTCACAGACCGTTGCTTTGCTCATGAGACAACTGGTCTACTCACAGCCGACTAGTCTTACTAATTGGTTGACCCATGTACTTCTAGCTGCCATACTATCGCTAATTGTTGGTGCTATATTTTGGGACGTGCCCAAGTCGGATCCACAACTGCTCTATGCCGACAGGATGGGATTTCATTACACAATGATGTGTGTTGCATCTCTACCGATTCTTCTCATGTTAACTCTAAACGATGCTCGTAGCTCAGAGAGAGCTGCTTCTCAAATGGATATTAGGGATGGACTCTATTCTAAGCTTATTTTCATCATAATCACTGCCCTTATCAGTTTTCCAGCCGTTCTGTTCGTTTGGCTGGCTTATATAATTCCAGCCTATGCGATGACCTCATTATATAACCAGGGTTCACAAGCGCCCAACGGATTCCACATTTATATCAGCACAATGCTAGTCCACATGATGTGTCTCTACTACATTCTGCGTCTGGTCACACAAATCTTCCATTCTCGACGTACATCCGCCATCATTTCCGGTCTGGTACTCTTCATATTTTCTCTCGTTTCCGGTTACCCCATCTACCTTCCCGATGTCCCCAACTGGCAATCCAACTACTTCGGACTGGTATCACCTGTCAGATGGAGCATGCCTGGTCTGCTGGCTAGGGAGTATTCAGGTGTTACGTTGGCAGCCATTGCTTCGCAGATGATCTGCAATAATCGACAGGTCCAGCAACAAGACATAATCGTCCAACTACCCTGCCCCATACCAAACGGGACAGCTGCTCTCTCCTTCTACGGCCTGAGTCCAAAATCGTCGGTACCCTTCAACTGGACCCACATTGTGCCCTACTGGCCCCCCGTAATTATTGCACTTGTTATGGCCGTCCTCCATATCGCCATTTTCCTTTTCAGATCACCCACGCCCGCTTGGAAAAAAGAGGATAAACTGAAGAGATACATTTATCATCCTCATTGA

>*sfABCG6*

ATGGAACTAGAAACAGAGCTGAGGTCCACCTCAGCGGGAACCTATTTTTCGAGGCATTCAACTAGAGAGCCAGTTGAGCTGAGCTTTGACAACCTCACCTACTCTGTTTCACAGGGATTTCGAAAAGGCACAAAGACTATATTACACAACATTGGAGGTAGATTCGAGTCTGGTCAAATAATTGCAATTATGGGACCTTCTGGAGCTGGAAAATCATCTCTGCTAGATCTGCTCTCAGGATACAGAATATCAGGTGTAGCCGGATCTGTGTACGTCAATGACCGATTTCGAGACCTTGATGAATTCCGAAGGCTCTCCTGTTATATCCAGCAGGACGATCGACTACAGCCTTTGCTGACTATTGATGAGAACATGTGGGCAGCCGCTGACCTAAAACTGCCTTCAAGTGTTACCACCAAGGAGAAAAGAGCTATCATAGACGAGATTTTAGAGACCTTGAAACTCTCGGGCTCTAAAAAGACCAGAGCTGGACAACTTTCAGGAGGACAAAAAAAGAGACTTTCAATCGCATTAGAACTAGTCAATAATCCATTAGTAATGTTCCTGGATGAGCCAACTACAGGTTTGGATAGCTCCTCATGTATGCAGTGTGTAACACTGTTGAAAGAGCTGGCATCCCAAGGCAGAACAATAGTGTGCACCATACAtCAGCCGAGTGCGTCCCTGTTCATGAAATTCGACCACGTTTATGTGTTGGCGGGTGGACGGTGTCTCTACCAGGGGTCTTCCGGCAATCTTGTTCCATATCTGTCTGAATTGTCGTTACCGTGTCCGACCTACCACAATCCAGCCGATTATATTATCGAATTGGCCTGCGGTGAACATGGAGAAGACAAAATCGAAAAACTTGTGGATGGAACAGAGAACGGAAAATGCTATAAATGGTTCACAAACGGAGAAGTAATAAAATACAACAATAATGCCGCAGCTGACGTCAAATCCATGGGTTGTTTGCCTATCATGAAGAAGTGTGGAGGCTCACTCCAGGTCACATCTCAATGGAATCAGATCGGCGTCCTACTACGGAGAGGATTCATTAAAATGAAAAGAGATCAGACTCTCACTCACATGCGATTTATGGTGAATGTGCTAACTGGGATGATGTTGGGATCGCTCTTCTTCCAAACTGGCAACAAAGGAGAGAGAGTTTTAGATAACTTCAATCTGTTGTTTTCAATATTGATACATCACACAATGACCACCAAAGTCCTCACCATCCTCACATTTCCAATGGAGATGTCCATATTGAATAAAGAATATTTTAATAGATGGTATTCATTGAAGTCTTACTACATTGCAACAAATATTCTGGACATACCAGTTCTGACTATTTGCGCTATAACGTTCTCAGCAATAATCTACGCAATGAGTGGTCAGCCTTTGGACTGGACGCGATTCAGTATGTTCACTGGCATAAGTTTATTGGTGGTTTATATTTCACAAAGTCTTGGCTTCATGGTTGGATCTATATTCAATGTTGTGAACGGAACGTTTGTCGGCCCAACAATGCTCGTTCCCATGATGATGTTTTCTGGGTTTGGCGTTTCGCTGCGTGACATTCCCGAGTACATGAAATGGGGAACAAATCTCAGCTACTTGCGCTACAGTCTTGAGGGATATGTGGCCGCTATCTACGGCCTGGACCGACCCATCCTGCCCTGCTCCAGTTACTACTGTCATTACAAATACCCGAAAAAGTTTATGTCAGAGGTTGCCATGAATGGAGACCAGTTCTGGATGGATGTTTATGCTCTCCTTTTCACTTTATTCCTGACAAGGGTAGCGGCTTACGTTCTACTCAGATGGAGGATAAGAGCTATGAGATAA

>*sfABCG7*

ATGAAGTTTATCGATGAAAATGAGTCGTGTGAAATGAACCAGATTGTTTCTTACGACAGGAAGGGCTCGGTGAAGGTGAACATCCAGCCATGCCAGCAGGCGCGTACCCTCACCCACCTGCCCAAGCGGCCTCCCGTCGACATCGCCTTCGAGGACCTCAACTACTCCGTGTCCGAGGGCAGGAAAAAGAAAACAAAAACGATCTTGAAATCTGTGAGTGGCAGACTCTATTCTGGAGAACTGACAGCGATCATGGGCCCCTCTGGGGCCGGAAAATCAACTCTACTCAACATTTTGACTGGTTACAAAACCTCTGGAATGAAGGGTTCAATCAAAATCAACGGCGAAGAGCGAAATCTGAGCCAGTTCGCCAAACTGTCGGCCTACATCATGCAAGACAACCAACTGCACGGAAACCTCTATGTGGAAGAAGCCATGCATGTAGCAGCCAACTTGAAATTGGGCAACGAGCACAGCAAGGAAGAAAAATTGGATGTGATTCAGGAAATCCTGGAAACATTGGGATTACAAGAACACAGACGCACGCTGACTTGCAACCTATCTGGAGGACAAAAGAAACGTCTCTCTATAGCTCTTGAATTGGTCAATAACCCTCCCATCATGTTTTTCGATGAGCCAACTAGTGGCCTGGACAGTTCGTCGTGTTTCCAGTGTGTGGCGCTGTTGAAGTCGCTGGCCACCGAGGGACGTACCATCATCTGCACCATTCACCAGCCGAGTGCGCGTCTCTTTGAGATGTTCGACCACCTGTACACCTTGGCTGACGGGCAGTGCGTCTACCAGGGCTCCACCGCACAACTGGTGCCCTGGCTCAAGACCCTCAACCTGGTGTGTCCCAGCTACCACAATCCAGCTTCGTTCGTTATCGAGGTATCCTGCGGTGAACATGGTGAAAATGTTAAGAAACTAGTTGCTGCTATCAACAATGGCAAGAACGACATCAGAACTGGCAAGCCGTTCCCGAAGCTTGACTTCGCAGCACTGAACAATGCCAGCATGGAGAAACAGTCCAACTTGAGTCAGGAAACTGACAATTTGCTGGCCAATGGAGATGCTACATCCGACCAGCCACTGTCTGAGGGCAGCAACTGCACCAATAATATGTTGTTGGCTTATGCCACCAATGATATTGCTAAGGATTCTCAATCGAATTCCGATGGGAAAGGAGGAGTGGTGATTCCAGTGGATTTCAGTGACAACGAGAAGAACAAGCAAGACAACGTTTCCACGAGTCTGTTGGAGACGACGCTGCCGCTGTCGCAAAAAAGATACGGCACCTCGGAATTCAATCAGTTCTGGATTGTTTTGAAGAGAACTCTGCTATTCTCACGCAGAGATTGGACACTCATGTACTTGAGATTGTTTGCTCACATTCTGGTTGGATTTCTGATCGGAGCTCTCTACTATGACATTGGAAATGACGGAGCCAAAGTACTCAGCAACCTTGGATTCTTGTTCTTCAACATGTTGTTCCTTATGTATACGTCGATGACTATCACAATTCTCTCTTTCCCTCTTGAGATGCCTGTATTGATAAAAGAAAACTTCAATAGATGGTATTCGTTACGATCCTATTATCTGGCCATAACAGTTTCCGACATACCATTCCAGGCCGTGTTTTGCGTTTTGTACGTGTCAATAGTGTACTATTTGACGTCGCAACCGCAGGATATGACACGTTTTGGAATGTTTTTGGGTGCTTGCCTGCTCATCTCGTTTGTGGCACAGAGCGTTGGACTAGTAGTGGGAGCGGCTATGAATGTTCAGAACGGTGTATTCCTGGCTCCGGTGATGTCTGTACCGTTCCTGCTCTTTTCTGGATTCTTTGTCAGCTTCGACGCTATACCGGTCTATTTAAGATGGATCACGTACCTCAGTTACATCAGATATGGATTTGAGGGAACTGCACTAGCCACCTACAGCTTCAACCGAACAAATCTTAAATGTTTCCAGGTATACTGTCACTTCAAGGACCCAAACACCACATTGGAGGAACTGGACATGAAGACTGCTAGCTTTCAACTAGACATCATCGCTCTAATTGTCATATTTTTCTTCTTGAGAATCTCAGCTTACTTGTTCCTCAGGTGGAAACTGATGTCATCCCGTTAA

>*sfABCG8*

ATGGAAGGAATCAACGCGTTGAATAAAGCGAAACACAATATGGAATTTTACAATAACAATGACTACGAACAGTTTAGCTTCCCAAAACGACCTACAGTGGATATCAATTTCCAGGACATCACGTATACTGTTAACACAATTACAGCAAAAAAAGAAATTCTCCACGGCGTTAGTGGAGAGTTCAGGTCTGGGCAGCTGACGGCCATCATGGGACCATCAGGCGCGGGAAAAAGCACTCTGTTGAACATTCTGGCTGGATATACGTTAAAAGGCTGTCAAGGAAGTATATGCATAAATGGCATCAACAGAAAAAGTCGAATTGAGCAATTCCTGAAGATGTCCTGCTATATTACACAAGATGACGAGCTGAGACCTCTCTTGACTGTCAGAGAAGCTATGATGCTGGCGGCTCATCTCAAACTTGGCTTCACTCGATCCAATGCTGAAAAATCCAAACAGGTATCTTACATACTGGGTCTTCTTGGTTTGAAGAAACATGAAAACACCAAAACCTGTCGATTATCTGGCGGACAACGAAAGAGGCTATCAATTGCTCTTGAGCTGCTCACAAATCCGCCGATCCTGTTCCTTGATGAGCCCACGACAGGGCTAGACAGTGTGTCAACCACGTCCTGTGTTTCGCTATTGAAGAACCTGGCGGGTGAAGGGCACACAATCGTTTGCACGATCCACCAACCGACCGCTTCCATGTTTGAAATGTTCGACCATCTCTATGCGATAGCTGACGGTGATTGCATCTACCAGGGCTCGAGTAGTAATCTGCTTCCGTTTTTGTCCTCGCTAAGTCTACATTGTCCCAAGTACCACAATCCGGCTGACTTTTTGATTGAGGTAGCTGTTGGGGAGTATGACTCAAATATAAAGTCTATAGCCGCGGCAGCTGCTAAGCATGGTCGTCAAGAGACCACACCTTATTCTGAGGAGATAGTCAAAGAGGAAAATGGTCTACCCGTACGAGTATTGCAAACTAAGAAGTCGCCAGCTTTTGACATTATTGAGTACACCTCCTGCTTAGCAGAGCCACCTCCATTTTGGTATCAAGTATTTCATCTTCTCCATAGAAACTTTATCATCACACGTAGGTCTAAGTTGTCCCTTGCCTTAAGAATGTTCATGCACATTGTGATCTCAGTAATGTTTGGAATCATTTACAATAATGTTGGAAACAACGCCAACTCTGTGTTTGGAAATTACATTTACGTTTATGGAACAAACCTGTTTCTACACTATACCGGGCAAATGGCAGTCACTTTATCATTCCCATTGGAATTCAGAGTCTTGAGAAGAGAGCATTTCAATAGATGGTATTCCTTATTGCCTTACTGCGTAGCAACGCTGCTTATCGAAATACCGTTCCAGATTATGTGTGTCATTGTCTACCTAGTGCCCAGTTACCTATTGACTGGGCAGCCCTTGGAATGGATCAGATTTTTGATGTTCTTGATGTTCACGGTAGCTGTTTGTCTAACTGCTCAAGCTTTTGGATTTTTAGTTGGAGCCACAACTCCTGTCACGTTGGCTGTCTTTATTGGACCAGTGATCACGGCTTTCCTGTCAGTGTTTGGATTCGCAATGAAGTACAATGACATTCCTTCATACCTTCGAGTTTTCTATCACATATCGTACTTCAGATCGTCTTTCCAGGGGTCGTTGATGAGCTTGTATGGAAATAACCGCTCCTATCTGCCGTGCCTTGAGAACGGCTTCCACGGACGCAACGGCTACTGTCATTACACACATCCCACAAAATTCCTCAGAGAAATGGAATTCGAGGAGCCAAACCCAGTTTTTGATGTAAGCTACATTGTTAGTGTTTGTTTATTGGTGTATATGTTTACAGCGACTGCTATTTGGTATAGACTTAACAAAAGGTGA

>*sfABCG9*

ATGGACGTGGAATTCGAGGATTTGACGGTCAGAGTGAAAAGCAGTTGGTTTCAGAGAGAATCTGGCAGGAGGATTTTGAAAGGAGTCAGTGGAAAGTTCAAAGCTGGACAACTTTCAGCCATACTTGGTCCCTCAGGGGCGGGAAAGAGCTCCTTGCTCAATGCAATATCTGGTTACCGGTCGGAAGGCGTCAGCGGTCGTTTAAAGCTGAATGGAGTGCATCGAGATGAGGCAAGGTTCAGGAAGATGTCCTGCTACATTCAGCAGGAGGATCTTCTACAACCTATGCTTACACTGCAGGAAGTTATGAACTTTGCCGCCCTACTCAAACTTCCCCCGGGAACTGGGTATAAGCAGAGAAGAGCTGTGATAAGCGATATACAAGGAATCCTGGGTTTGATTGAGTGCAGACACACGCGTACTGAGGCATTGTCCGGAGGCCAGAAGAAAAGACTATCAATCGCCCTTGAACTCATCAACAACCCTCCTGTCTTATTTCTAGACGAACCTACCAGCGGTCTGGACAACGTCTCCACGTCCTACACACTGAAACTGCTAAGCACGCTGGCGCATCAGGGCCGAACAATAGTGTGCACCATCCACCAGCCGAGCGCCTCCCTCTTCCAGATGTTCGACCACGTCTACGTGCTGGCGGCCGGCCTCTGTGTCTATCAGGGCGTCACCGGCGAACTGGTTCCCTTTCTGTCTTCAGTCGGACTACACTGTCCAAGGCACTACAATCCGGCTGATTTTGTGATCGAAATGACTGATGGAGAAGACGAAGATAACATCAAAAGGTTATCTTCAGCGATCAAAAATGGGAAGGTTGTCCAGCTAACGCCTGCTGATGCGAAAAAATCGATTCCAGATTTTCCTCAACTACCAATAGAAGGATTACCCATGGAAAGACTACCCATAGGAGGACTACCATTAGAAGAGAAATTAGTTGCAGTCAGTGGCTATGGTGAGAAATACGTTGACATGGACAATGGAATCTGTCTCACTTGTAGGGCAGACTCGTCTGCTTGGCTAGAATTTTGTACGCTTTTTAGAAGGATGTTCCTTCAAATTATGAGAAATAAGACTGGTTTAAAAATTCAATTTTACCATCACTTGGTGTGCAGTTTGGCAGTTGGAATAGTGTTTTGGGGCAAGGCTCGTGACGGTAACCAATTTTTCAATCACATGAAATTCTGCATGGGTATCATCCTCTTCCATGCCTATACACAGTGTATGGTACCTGTTCTTACCTTTCCATTCGAAGTTAAACTGCTGAAGAAAGAACACTTCAATCGATGGTATCGACTAACGCCGTATTACATGGCATTACAGCTCTCTAAAGTTCCAACCATGACACTATTCAGCCAGCTATTTCTTACAATAGTTTATGTGATGTCAGGCCTGCCGCTCGAGTTCTACAGGTTTTTTGTCTTCTCAGTCGTTGGCGTGATGACTGCTTTTGTAGCTGAAGGGTGGGGTCTGGCTATTGGATCAGTATTTAATGTCACAAACGGCAGCGCAGTCGGCCCCATGACAATCGCTCCGTTCCTCGGCTTCGCCATCTACGGATTCGACTTCGCTCGCAGCATCCCCGCCTGGTTCATGCCCATACTCAAGCTCAGCTTTTTGCGTTCGGGTGTGATCGCACTGATCATTGTTGTGTTCGGCATGAATCGTGGACTCCTCGACTGCAATCACGAGATGTACTGTCACTTCAAGAATCCGCGAATCATAATTTATTACCTGGATATAGAGGGTGTCTCGCCGTGGCAGGAGATAGCTGGCATGTTCGGTATGCTACTATTCTTCCGGATAGTTTGCTATATTGGACTTAAATGGCGGCTCAGAACATGA

>*sfABCG10*

ATGATAGGTAACGATTATAGTTTGGAGCTGTGTAATATATTTCACACAGGGCAGGTTGAACCAGGCTCATGTTTACAAAGGATATTTGGCAGTGTTCAAACGGGGCTTATTCTGAAAGATGTTTCTCTCGAAGTTAGAGCCGGAGAAGTTCTTGCAGTGCTTGGATCAAAAGGCAGCGGTAAAAGAGCTCTACTAGAAGTGATATCTAGAAGGAGCCGTGGTCCCACCAGAGGCCAAATCCTCCTGGATGGTGCTCCCATGACCTTGAGTTTGTATCAGAAGAACTGCGGCTATGTCAGCCATCGAGTTGATCTAATTCCTTCACTCAATGTGGAGCAGACTCTACATTACGCGGCTAATCTCACCATTGGATCACAGGTATCCAGGTACGTGAGGAGTTCCCGTGTGCGTCAGGTGCTGGCTGATTTGGCTCTGAGTCAGGTGGCAAGACGCAGTGTATCCAGTCTCACACTCAGCGAATACAGGCGATTGGCTATTGGAATACAACTTGTCAAGGATCCAGTTCTACTCCTCCTGGACGAGCCAACCGCCAACCTAGACCCCCTTTCCACCTACCTGATAGTCTCCATGCTATCTTCGCATGCCAGACGCCGCGGCAGAGCAGTAGTGCTGACTATGGAAAAACCGCGCTCCGATGTCTTCCCATTTCTGGACCGAGCCGCGTATTTGTGTCTGGGAGATCTGGTGTATGCGGGACCCACTCGTCTCATGCTGGAGTACTTCAGAGCTATCGGCTTCCCCTGCCCGGACCTGGAGAATCCTCTTATGTACTATTTATGCTTATCAACAGTGGACCGGAGGTCTAGGGAGCGTTTCATTGAATCCAACACACAGATCATAGCTCTGGTAGAAAAATTCAAACTGGAGGGAGGACCTTACAGGAAGTCTTCGGCAGGAGGTGGAGGAGGGGGACATGTGCTGCTGGGATCAGGGGAGTCACCCCCCTCTCATAAAATGCCCCTCACCACCCTAGGCAAGCCAGGAGCGATTCAGCTTGGGTTCACACTCTACCAGCGACTGCTAGCTTCCACCTTCAACCTATCAGCAATCGCCGCCCAGCATCTCTTCCTTCACCTCGCCCTCTTCCCCCTCATCTGCACGCTTATCTGGTTCTTCTACCGCGACGTCAAACACCAGGACGGACCCTACACCTTCCAATCTCTCAACGGATTCCTTCTGAACAGTCTGCTCACCTCCTGCGCATGCGCCATTGTCAAAACCGCATGCGTCTTTCCCATACACCGCACTCGTTACTACCAGGAAGCTCATGAAGGGCTTTACTCGGGACCGTTGTTCTTACTAAGTTACAACCTTTACTCCCTACCTTTTTCAATACTAACAGTAGCTATTGGTTCTCGAATACTTTTCGAATCAACTGGTCTAACTTCCAGTACAGATTGGTTCTTTTTTGCAGCAATACTACTTTCCACCTACTTACTATCAGAACAACAAACTGTCGCACTTTTAATGATAATCAAAGGATCCTTCATTGCATCAATCACTAGTTTGTACCTAGGTACAATATTTATCATACTAAGCAGCGGTACCCTAAGATCCTACGCTAGTTTACCGGAGTGGTTGCTGTATCTAACATACGCGTCTCAAACGCGTTACTCCAGCGCGTTTTTGTCGCGTCAGCTGTTCGGTTCAGTGTATACCGCGTTACCTGGTAATTGTACCGCGCGTTTGCCGCTGAACGACGCGTTTTTATGTCGCTATAAGGATAGCACGGCGTATTTGGCGGAGCGTTATAGTAGGGGGAGTACGGTGTTCAATATCAATGATATGTTGGATAGTGATTTTAATTTGAGTTTTTCGTATGCTTTCCCTGTGGGATTTGTTTTGTTGAACTGCATATTGTATTTGATACCTTTGCCCTCGTTTATTAAAGCTAAGTTCAGGGATTGA

>*sfABCG11*

ATGACGGAAGAACGTGCTGTACTGCTGCATTTGCCTCCCAGCAAACCTATCCACATTTCTTTCACCGATATCACTTTGACGGTTGAGTTGGGCACTGTACGAAAAACCAGGAAACAAGTCCTCAAAGGGCTTGCAGGCAGTTTCAATTCTGGAGAGTTGACAGCTATTATGGGTCCATCAGGAGCTGGAAAATCTTCGCTACTCAACATCCTAACCGGCTTTCAAAAACAAGGCATGACCGGAACAATAACAACAAGTGGAGCTGGAAAAATAGAAAACTATTTTAAAAATGGAGTGAACACAAAACAGTCATGTTATATTATGCAAGATGATCAACTGAACCCACTCTTCTCTGTATTTGAAATCATGTCAATGGCAACAGATTTAAAATTGAGTCCAGCTATTTCACAAAAATCAAAAATACTCATTATTGATGATATTTTAGAGACCATTGGTCTGATGGGTTGTAAATACACACGGTGTGGAAGATTATCAGGAGGCCAGAAGAAAAGGTTATCCATAGCTCTAGAACTTGTTGACAACCCTCCAATCATGTTTCTTGATGAACCTACCACGGGACTGGACAGCTCCAGCACCGTTCAACTGGTCTCTCTACTGAAATGCTTAGCAAGGGGCGGAAGAAACATAATTTGCACAATCCATCAACCCAGTGCAACCATTTTCGAAATGTTCGATCATGTTTACTTGATCAACGGCGGACGATGTGTTTATCAGGGCTCAAGCATAAATTTGGTCAAGTTCCTGCAGTCAATCAACATTCCATGTCCCAAGTACCATAATCCAGCCGATTTTGTGATGGATGTTATTAGTGGCGAGTTTGGTGATCACACAGACAGAATGATTGAAGCGTCCCAAAATTCCAATTGGAGAGCTCCACCACCTGTAATCAGAGCGCCATTCAAAAAGCGAACATCAGATGACATTGAAAAAGTGAAAATGATGGGAGTTCCAGTTACTCCTCCAGAGATTCTCAGGTTATGGGTCCTTATCAATCGATGTATCATTCAACTCTACAGAGATTGGACAGTAACACACTTAAAAATGATAATGCATTTTGTAGTTGGTGTAGTCATGGGCCTAATTTTCAACAAGTGCGGTAACGATGGTAGTCTTAGTGTGAATAATATCGGCTTCTTCCTATGTACAAACGTGTATTTGAGCTACACTTCAATAATGCCAGCAATTTTGAAATTTCCATCAGAGCTCCACATACTGAAGAAAGAACAGTTCAACAACTGGTATAAGCTCTCCACCTATTACATCGCATTTCTACTCACAAATATTCCTGTACAGATGATGTTATGCACCGTGTATGTGTCAGTTTCGTATTACCTCACACATCAGATTCAAGAATGGCCACGATTCGCCATGTTCTTGGCTGTCAATCAATTTTCAGTCGTTATTTCAGAGTGCATCGGTCTAGCACTTGGAACAACTATCAATCCGGTGAACGGATTATTCACAGGCTCTGTACTATTCTGTTTTATGCTGTTATTTGGAGGATTCTTGGCTCTCTACAAGCACATGACTTTGCCGCTCTACTTAGTCTCGTTTCTAAGCTACATGCGCTACACAATGGAGGGAATGGTGCTCTCAACATATGGCTTCCAAAGACCACTACTAGACTGTCCAAAGAACTACTGTCATTACAGAATACCCTCTGTCGTTTTAGAGGAAGTGGACATGAAAGAGGATCATTATTGGATAGATGTGATCATTCTAATTAGTATGAGCGTATTCTTCTCATTTTATGCGTATATCACCCTCAAGCGTCGCGTTATGCATAGGTAA

>*sfABCG12*

ATGTGTGCCAAACGTCATGGACAAGTTACCATCGACTTTGACAATTTGTCTTACAGTGTACCTGAGACAAATAAAAAATGTCCACACCGAGTGCTTCTTCATAATGTAAGTGGACATTTTCGTCCAAAGCATTTAGTGGCCTTGATAGGACCTTCGGGAGCTGGCAAAACAACACTTCTCAATGTAATATCTGGATCAAAGGCAGTGGATAATTCACGAGTATCCGGTAGTATACTTGTCAACGGAAAAGAGCGAAATTTGCAAAAATTTCGAAAACAGTCGTGCTACATCACGCAGGAGTGGTCTCTCCTGAATCAGCTGACTGTTGAGGAAACTTTGGAAATTGCCGCTCGATTCAAGTTGCCAAGTAATACCAGTGAAAGCGATCGGAAAAGTACAATCAACGAGGTGGTTGAAATTTTGAGACTGAATGGATCTAAGAACACTCTAGTCAAAAATCTCTCGAATGGCCAGAAGAAACGAATTTCTATCGGAGTTGAACTCATGAATAATCCACCTGTCTTGTTCGTTGATGAACCCACAAGTGGTTTGGACAGTTCTTCAGCACTGCAAGTGGTCAGCCATCTACAGAGCCTAGCACTGGATGGCCGAACTGTGATAGTGGTCATACATCAGCCGAGCTCCAAAGTTTTCCAACTTTTTCACGACGTTTACTTGCTGTCTGACGGCGAGTGTCTCTATAATGGTCCCTCGGAGCATTTGGTTACTGCCCTGTCGTCGGCTGGCTTCAACTGTCCACAGTATTACAGCAAGTCTGATTTCGCTATTGAAGTCGCCAGCGCAGAGGTGGAAGGAGATATAAAATTATTGAAAATGGAAACGAGGAAACGTTACGAAATGAAGGAGGGAGAATTCTATGAAAATTTAGTCCCTAGCAAGCGAATTTCTGAAGCAAATCATCCCAATGAGCACACAACAATGATGATTGGTGATGATGATGACGACGATTCCTATAATTCGTTGAAAGGCTACCCAGTTTCGAAGCTTGAACAGTTCTGGATACTTTTTATGAGATGTACAAAAATCACAAACAGAGATATGTATCTATCACGGACACGAATCATCACGCATATTATGCTGGGTTTACTGCTCGGTTGTCTCTTCTATAACTTTGGAAATGACGCGGATAAAGTAGTAGGCAACCATTCCTTCTTTTTCTTCGCAGTTCTGTTCATCCATTTCAGCAGTAGCATGCCAGCTATAATGACATTCCCATCTGAAGCCAACGTTTTTCTCAGGGAGCATTCCAACAACTGGTATTCACTGACAGTCTACTTCTTTGCAAAAGTATTGGCGGATCTACCTTTGCAGATAATTTGTCCGACATTGTTCTTGACGATTGGCTACTATATGACCGGTCAGCCAATGGAGTTGCAGAGGTTCTTCATGATTTGGTTTGTGATGATTCTTTTGGCCATGCTGGGACAATCTTCCGGCAATGCAGCTGGCGCTTTGCTCAACGTTGAGCTGAGCATCGTAGTAGTGCCAACAATTTCGATGCCTCTGTTCCTGCTGTCAGGCTTCTTTCTGCAGCCGAAAGATCTCTCGCCGCTGTTCAAGTCATTGAGCTGTGTCAGCTATTTTAAGTACGCTTTCGAGGCGGTCGCCGTATCCGCCTTCGGCTACGATCGCGGCCGGCTGCCCTGCTCGCAGCCGTACTGCCACTACCGCAACCCGCGCAAGTTCCTCGACGACATCGGCGTGGACGACTATCACTATTTGGAGCGAGTCGGCATGGTGGTGGCCTGGGCTCTTGCCACGCAATTGCTACTCTACACAACGCTCACCATCAAAATCTATCAAGATAAGATTAGGACTGCTTTCAGAAAGCTGGTGACGTGA

>*sfABCG13*

ATGATCATTTCCAAGGATCTGTTCCTGCTGGGCGACCAAGACTATCTGCGTCTTCCCAAGGACGAGAAACGGACCATGGTGCGGCCGACATCCAATAAAACTCAAAGGGTGGAATCGCATTTACCATGTCTTCAGCATCATCACCTGCCTCACAGACCCCTGGAGCTGGTCTTCACCAATGTATCCTACGTTGTGGACAAAAAAGCCATCCTGAAAGATATCAGTGGCGTTGTCAAACCAGGAGAACTTCTAGCCGTGATGGGCCCTTCAGGCTGCGGCAAAACCACGCTTCTGAACTGCCTGGCAGGCCGATTAAAGCTGGACTCTGGAAATATTCGTCTCAACAAAGAGCGCCTCAACAAACGCTGGAAGAGGCGGATATGCTACGTTTTACAGCAAGACATTTTCTTCCCTGATCTCACCCTTCGCCAGACTCTAGAGTATGCAGCAATGTTACGGTTACCCGACTCACTGTCCCACGCCCAAAAAATGCAATATGTTGATCACATAATTGACGTACTGGACCTCACAAATTGCCAAGAAACAATTATAGGAGACTACATAAAAAGAGGACTGTCAGGGGGAGAGAAAAAGCGTGCTAATATTGCCTGTGAACTATTAACAAACCCTTCATTGATGCTTCTTGATGAGCCCACGTCAGGACTGGATTCACATTCTGCCTACAATCTAATGTTATCGTTGAAAAAGTATGCAGAAAAAGAAGGAAAAACCGTTGTGGTAACTGTTCATCAACCCTCATCTCAAATATTCCATATGTTCGACAGACTACTACTACTTTGCAATGGAGAGACTGCCTATTTTGGAGATGTAAATAAAGTTGTTGACTTTTTCAACAATGTTGGACTGACAATGATGCCTCATTACAACCCTGCCGATTTTATTTTGGAACAAGTCAAAGGAAGTGAAGAGATGAAGGAGAAAATAATCACAGCAGCTAGAGAAGCCAGATTTCGACCCAACTACCCACAAGAACTGATGCCCGAATATTTCAACCAGTCCATGTATCTAAATAACTATCACGAAAGTCATTTACATTCTAACGGTCACATAGGAGGAGTGCGTTGCCAATGCCAGCGAGAATTATGGAACAATTCAAGGCATTCCACGTCACAATCTCTTCCCTCGTCAGACATGTGCGTTCCGGTGGCAGTGGCCATTGGCGAAACCACTGAATCACAGGGACACGTTTATACAACTATTGCAGTGAAAGAAGAAGAGGGCAAAACGTTATGGCAGGATACGGCCAGTCACGCGTCTTCTTCCGTGAGCAGTTCCGACGACGACGTGTCATGGCAGTGGCCTACCTGCTTCTGGACACAATTCAAAGTACTGAGCAGAAGGAATTTCCAAGAGGCGCGACCCAGGATGCTGTCCACACTGAACTGGGTGCAGACAGTGGCGCTGGGCGTGATGGCCGGTCTGCTCTGGTTCCAGCTGGAGCGCAAGGAGGAGTCACTGCATGACATACAGGGCTGGATGTTCTTCTCCACCACCTACTGGATGCTGTTCGCGCATTTCGGCGCTCTCTCCTCCTTTCCACCTGAGAGAGAAGTCATCAACAAAGAACGTCTATCTGGTGCCTATCGACTGTCAGCCTACTACTTGGCGAAAATGGTGGGAGAACTGCCTCTGACAATTACGCTGCCCGCCGTGTATCACATCATATCCTACCCTATGCTGGGCTTCCACAGTCCGACAGTCTTTTTTACACTGTTGGGATTCCTGCTTCTCAACACTATTGTAGCTCAGAGTGTCGGATTCTTCGTTGGCGCTTGCTGCATGGACATGCAGGTGTCGATTACAATCAGCGCCCTCTACACTCTGGCGACACAACTGTTCGGCGGCTACCTGGCCACCAATATTCCGCCGTGGCTCAAGTGGATGCAGTACCTGTCCATGGTGCACTACGCCTATCAGAACATGCAGATTGTCGAGTTCAGCGAAGGAGAGCAGATCAAATGCGGTCCGCAGTCCAAGTTCGACGTGTGCATCAACAACTCGACCAGCCACATTCCAGTCACGTCGATTCTGGAGGTGCAGGGCGCCAGTCTGCCGCTCTGGGCCAACACCCTCGTCCTGCTGCTCTTCCTGCTCATATTCCGCGTGCTCGGCTACATCGTGCTCAGATACTTCCGTCGGCCCAAGTGA

>*sfABCG14*

ATGTCTCGAAAAGCCGAGAACCAGCCTTTGTTAGTACAGGCTAAACATAAAACGAACGGATCTACGAAACCTTCGTATCAAACTATATCTTACGACTCATCAGCCCCCCAACAACCCGACACCTGCGCTCTCCACCTCGACAACCTCCAACAAAAGTCCCCCCCACCCACCAATGGCTACCAGAGCATCTACCCGCGACTAAATGGCGGTGACAAGGGTGGAGGAGGGGGAGGTGGCTCACCCCCCAGCACACCCTCTGCGTTCCCCCTGGAGAACATCACCTACAGTTGGCACAACATCAATGTGTTCACGTCGAGCAGGGAGTCGAGGAGGTCGAGGATGGTCAACTGTGTCAGGAGTATGGTGAGCCGCAATGAAGGCTACAGCCGGGTGGGGCATAGGAAGCATATTTTGAATAATGTTACCGGCGTAGCCTATCCTGGAGAACTGATCGCCCTCATGGGTTCCAGTGGCGCTGGAAAAACCACCCTGCTGAACAGTCTGACCTTCAGGAACTCTCCAGAACTTCTAGTGTCCGGGCAACGCGCCATCAACGGCATTCCAGTAACCTCCAATACCCTGGCATCGCTGTCAGCCTACGTACAACAGGACGATCTTTTCGTGGGAACCCTAACTGTTAGGGAGCATCTTGTGTTCCAGGCTTTGGTGAGGATGGACAGACATCTGAGCTATGAACAAAGGATGGACCGTGTTGAAGAAGTCATTGAAGAATTAATGCTTACCAGTTGTCAGAACACAATAATTGGTGTACCGGGAAAAATCAAAGGAATCTCAGGAGGAGAAATGAAGAGACTGTCTTTCGCATCCGAGGTCCTCACCAACCCACCCCTACTCTTCTGCGATGAACCCACCTCCGGTCTGGACTCCTATATGGCTCAAAATGTTGTCAGCGTCCTGAAATCCTTGGCTAATAAGGGTAAAACTCTGATCTGTACCATCCATCAACCTTCCAGTGAAGTGTACGCCATGTTCGACAAGATCCTCCTGATGGCTGAGGGAAGAGTCGCATTCCTGGGATCACTGGATCAGGCCACTGATTTCTTTAGGACTTTGGGAGCAGGATGTCCCAGCCACTACAATCCCGCCGATTTCTTCATTCAACTTCTGGCCGTTGTACCCAATAGCGAAGAATCCTGCCGCAATATGATTGAACTGGTTTGCGATACCTTTGCTACTTCCGAGATTGGTACCAAGTTGGCTTTGGAGGCAGAACCACGGGTACCTGATCATAAGTCGAAATCCATGTTTGTTGGTGCATGGGGTGATACTCTTTACCCAAGGGCGCTCTCGCCTTACAAAGCATCATGGTACAACCAATTCAAAGCCGTATTTTGGAGATCATGGATCAGCGTTTGGAAGGAACCGGTTCTGATCAAAGTCAGGATGTTACAGACTTTTATGGTTGCACTGATGGTTGGCATAATCTACTTTGGACAGGAGAACGACCAGGATGGAGTAATGAACATAAATGGAGCTCTCTTTATCTGTATCACCAATATGACTTTCCAGAATGTGTTTGCTGTTATTAGTGTCTTCTGCGCCGAGCTACCTGTCTTCCTGAGGGAACATTTCAACGGGATGTATCGAACAGACGTGTATTTCCTTTGTAAAACTCTGGCCGAAGTCCCTATATTCTTGGCGATACCTGTACTATTCACTGTAGTCATGTACTATATGGTGGGCTTGAATCCGGCTCCATCAAAATTCGTACAGGCCGGAATTATTATTACTCTTGTTAGTAATGTTGCTACATCTTTTGGTTATCTAATATCATGTATCAGCTCATCTGTATCAGTGGCATTGTCTATTGGACCTCCAGTAGTAATTCCATTCTTGCTTTTCGGAGGTTTCTTCTTAAACGCAGGATCCGTTCCTCCCTACTTCGAATGGCTCAGTAATTTGTCCTGGTTCAAATACGGGAACGAAGCCCTACTCATCAACCAATGGGGAGATGTCACTGATATCAAATGCACCAGGATGAACACCACTTGTCCTAAAGACGGACATATCATACTGGAGACTTACAATTTCAGCGAGAGCGATTACCTCATGGACTACTTATGTTTGATTGGACTTATTATTGGATTCAGAACCTTTGCTTTCCTATCTCTACTCTACAGAACATCAGGAAAGAAACACTAG