Supplementary data

Supplementary Table 1. primer pairs used in isolation of *Gh14-3-3* genes.

Gene no.	Primers
Gh14-3-3L	5'-ATGGAGAAGGAAAGAGAGCAACAAGTTTAC-3'
	5'-TTAACTCTCAGCCTGAGGTTCATCTGCTTT-3'
Gh14-3-3a	5'-ATGGAAAGAGAGCAACAAGTTTACTTGGCA-3'
	5'-TTAACTCTCTGCCTGAGGCTCATCTCCTTT-3'
Gh14-3-3e	5'-ATGTCCCCAACTGAATCATCACGAGAGGAA-3'
	5'-TCACTGCTGTCCCTCGCCTGACTCGTGCTT-3'
Gh14-3-3f	5'-ATGGCGACGATGGTGCCTGACAATCTAAGC-3'
	5'-CTATGGCTCGTCTAACTGGTCCTGAACATC-3'

Supplementary Table 2. primer pairs used in overexpression of *Gh14-3-3* genes in yeast cells.

Gene no.	Primers
Gh14-3-3L	5'-GGGCTCGAGATGGAGAAGGAAAGAG-3'
	5'-GGGGGATCCTTAACTCTCAGCCTGAG-3'
Gh14-3-3a	5'-GGGCTCGAGATGGAAAGAGAGCAAC-3'
	5'-GGGGGATCCTTAACTCTCTGCCTGAG-3'
Gh14-3-3e	5'-GGGCTCGAGATGTCCCCAACTGAATC-3'
	5'-CTTGGATCCTCACTGCTGTCCCTCGC-3'

Supplementary Table 3. Primer pairs used in yeast two-hybrid analysis.

Gene no.	Primers
Gh14-3-3L	5'-GGGCATATGATGGAGAAGGAAAGAGAGCA-3'
	5'-CTTGGATCCTTAACTCTCAGCCTGAGGTTC-3'
Gh14-3-3a	5'-GGGCATATGGAAAGAGAGCAAGTTTACTTGG-3'
	5'-CTTGGATCCTTAACTCTCTGCCTGAGGCTC-3'
Gh14-3-3e	5'-GGGCATATGTCCCCAACTGAATCATCACGAG-3'
	5'-CTTGGATCCTCACTGCTGTCCCTCGCCTG-3'
Gh14-3-3f	5'-CTTCATATGGCGACGATGGTGCCTGACA-3'
	5'-CTTGGATCCCTATGGCTCGTCTAACTG G-3'
Gh14-3-3g	5'-GGGCATATGTCGCCAACCGAATCATCACG-3'
	5'-CTTGGATCCTCACTGCTGTCCCTCTCCTG-3'
Gh14-3-3h	5'-CTTCATATGGATTTCTCCAAAGAACGTGA-3'
	5'-CTTGAA TTCTCATTCATCTCCTTCACCCAC-3'

Supplementary Table 4. Sequences of the identified 38 cDNAs encoding target proteins which interact with cotton 14-3-3 proteins.

Protein sequences identified in cotton fibers by yeast two-hybrid screening

1. nucleic acid binding protein

atgccaatactatttgaggaccggcaactgtaaatttggatcatcttgtaggtatcatcatcctagagacaaggttgtgcaacaaacaaattgcatcctcagcccaatgggacttcctt
tacgtccgggggtgcagccttgtgctttctacttgcagaatgggaactgcaagtttggttctacttgcaaatttgatcatccaataggaacaatgagatatagtccgtcagcatcatct
ctcatcgatattccagttgcaccctatccatttgggtctttgctggctacattagccccttcttcctcttcttctgaattacggcctgagatgatttcaagctttcaagtcagagtttaagca
gtagcagaagtacaatacagggtgctgaggttcactcaaattgatgcaacatgctagagcagttttcattgtcttgcagatgtgcttcaccaaccttgatatgtgtgtgtaatag

2. putative R2R3-Myb transcription factor

ccaccatagcccgactcctcaacggccgtaccgacaacgccattaaaaaccactggaactccacgctaaaacgtaagtgcttgccggttggggaagagtgtaatttcgttgctaa
tggagggtatgatggtaatctgggaggagaggaacggcaaccgttgaaaagatcggtgagtgctggtctatacatgagtccagggagcccatcgggatcggatgtgagcgatt
ctagtgttcccgtcttatcatcttcttacgtgtacaagccgatcccaaggaccggcggtgttaacgttgatgtaaatgttacgccagctggagtggaagcggtatcatcttccaacga
tccaccgacctcactgagtctgtctttaccgggggtggagtcatgtgaggtggtgtcaacccagccaataa

3. BRASSINAZOLE-RESISTANT 1 protein

atgtcaagtcagtccttcctcctcttccttccccagtcccactaggactgatgcaaataatccatctagtctccttccgttcctcagaagcgccattccttcgtctctgcctcctctcaga
atctctaatagtgcccccgtgacaccaccactttcttctccaacctccagaaatcctaagcccattcccaactgggaggcccttgccaaagagtccatggcctcttttaactaccctttt
tatgctgtctctgcaccagctagtccaacccatcgtcatttccatgcccctgctactatacccgaatgtgatgaatcagacacgtccacagttgaatctggtcaatggataagctttc
aaaagtttgcaccttctacatctcaagtgccgacttcgccaacattcaatcttgtaaaacctttggctccacaaagtttg

4. auxin-repressed protein-like protein ARP1

gtagctgggcctcaacctgaacgtggtctcggcaggcttaggaagatcaccacccagcctttgtccatcaaagatgaaggagaaaagaaaaagtaccagaggtcgttgtcgct
gccgaatagtccagtgtcaggtccgacacccgtgacaccgacgactccgacggcgcgtaaggagaacgtgtggaggagtgtgttccatccgggtagcaacctagccaccaa
aagtataggttctgatgttttcgacaagccacaacccaactctcctaccgtctatgactggctttacagtggggagaccaggagcaagcatcgctga

5. abscisic acid responsive element-binding protein 2

Atgggtttgcaaagtggtggtcagttggggagtcctggaattaggtgtagtcagggactatataatggcttgatccatggtggtgggatgagtatggttggtttaagatcacctgct
aaccacctttcatcagatgggattgggaagagtagtggagatagttcctctgtttcacccgttccttatgtgtttaatggaagtttgaggggtaggaaaagcagtgctgtggaaaag
gttgctgagaggaggcagagaagaatgataaagaaccgagaatccgctgcaagatcacgagctcgcaagcaggcgtatacaacggagttggaagcagaagttgctaagctg
aaagaggcgaaccaagaattgcagaagaaacatgatcacatcataaaaatacagaaaaatcaggtgatggagatattgaatgtgcagccaggagctaa

6. 14-3-3h protein

atgatatggtgacttccatgaaaaagctagcggagcttgatgtggaactgaccgtagaagagcggaacctgctctctgttgggtacaaaaacgtgatcggtgctcgaagagcatc
gtggaggatcctgtcttcgattgagcaaaaggaagagagcaaagggaatgagcaaaatgttaagaaaatcaaaacgtctaggcagaaagtagaatcggagttgtccaatatttgt
aaagatattatgggtgtcattaatgagcatctcattccttcttgctcgggtggagagtctactgggttttattataaaatgaaaggagattattataggtacttggcggagtttaagatgg
gtgatgagaggaaagaggccgctgatcagtccatgaaagcatatcagtctgcaacaactacagcagaagctgagttgcctcctacgcatccaatccggttgggtttggccttgaa
cttctctgtcttttattatgaaattatgaactctcctgaaagggcctgtcaccttgctaaacaagcttttgatgaagctatctctgagttagatactttaagcgaggagtcatac

7. 14-3-3a protein

atggaaggagagcaacaagtttacttggcaaggcttgctgagcaagctgaacgatatgacgaaatggtcgaggccatgaaaaatgttgccaagttggatgttgaactgactgtag
aagagaggaatctattatctgtggggtataagaatgtgattggagcaagaagggcatcgtggcggatactgtcttcgatcgaacagaaggaggaagctaagggtaatgaacaaa
atgtgaagaggataaaggagtatcggcagagggttgaagatgagcttgcaaagatctgtgatgatatactatccgtcattgataagcatctcattccatcttcctcgacaggggaat
caactgttttctattacaagatgaaaggagattattttcgttatttggcagaatttaaagccggagaggatcgtaaagaagctgctgatcagtcacttaaggcttacgaggctgccac
cactactgcaaattcagatttgccgccaactcacccaattagacttggcctggctttgaacttctctgttttctactatgagatattaaattctgctgagagggcttgccatctggctaa

8. 40S ribosomal protein S20

atcacaacgaggaagtctccctgtggtgaaggaacaaacacatgggatagatttgagctccgtgttcacaagcgagttattgatcttttcagctcccctgatgtggtcaagcagatc
acctctatcaccattgaacctggtgttgaggtggaggttaccatcgcagattcttaa

9. 40S ribosomal protein S20

acgaccaggaagtctccctgtggtgaaggaacaaacacatgggatcggtttgagctccgtgttcacaagcgagttattgacctattcagctcccctgacgtggtgaagcagatca
catctatcaccattgaacccggtgttgaggtagaagtcaccattgcagattcttaa

10. 26S proteasome regulatory subunit 7, psd7

ccgattgagaaggtgatagtccaccctttggttctcctcagtatcgtggacaactacaatcgcgtcgccaaagacacccgtaagcgcgtcatcggagtccttcttggcacctccttc
aaaggcaccgttgacgtcaccaacagctatgcagtgccttttgaggaagatgagaaggacccgagtatatggttccttgaccacaactaccatgaatcaatgttttcaatgttcaaa
aggattaatgccaaggagcatgttgttggttggtatagcactggcccaaaattacgggaaaatgatctagacattcacagattattccacaactatgtcccaaatcctgtcttggtgat
tattgatgtccaacctaaggagttggggatacccactaaggcctactatgatgttgaagaggtcaaggaggatattacccttgtggttaagataacccctttttcacttgcaaacagc
agtgaaacacttgcttagggatgtaaaggatacaacaattagtacacttgcaactgaggtcacagggaaactcacagctttgaagggtttggatgcgaggtta

11. ubiquitin

accattactttagaagtggagagctcggatacgattgataacgtgaaagcgaggattcaggacaaagaaggaattccaccagatcagcaaaggttgatttttgctgggaaacagc tggaagatggaaggactttggctgattacaatattcaaaaggagtccactcttcaccttgttcttcgtcttcgtggtgggttctaa

12. aspartic proteinase

gtttgtgagatggcagtcatatgggtgcaaagccaacttaaacagaaccagactcaggagcgtatacttgattacgtcaatgagctctgtgaccggttgcctagtccaatgggaga atcagttgttgattgtaacagcctatctgctatgcctagtgtcgccttcacaattggtggaaagatacttgagcttacccctgagcagtacattctaaaagttggtgacggagagctag ctcaatgcattagcggattcggtgctctcgatgtaccgcctcctcgcggaccactctggatcttgggcgacgtgtttatgggtaagttccatacggttttcgactatggaaacatgca aattggatttgcagaggctacataa

13. KEU (keule); protein transporter

cctagtccaagtttccatggctcatctccagctgctgcatccatacatgaggctccagttgctcattccatgagatcaaggaggacgccaacatgggctcggcctcgtggttcaga cgatgggtattcaagtgattctgtactaagacatacatcgagtgatttgaaaaagaggggcaaacgcatttttgtgtttatagctggtggagctacaagatctgagctaagagtctgt cacaagctcaccggaaagtcgaacagggaagttgttttaggctcaaccagtattgatgatcctcaacagttcatcacgaaactgaagcagttgactccaagtgaaatctcattggat gatctgcagatatga

14. sulfite oxidase

ccattgagagtaattgtgccaggtgttataggtgcacgttctgtcaagtggcttgattctatcaacataatagctgaagaatgccagggcttcttcatgcaaaaagattacaagatgttt ccgccctctgttgattgggataacatcaattggtctacaaggaggccacaaatggatttcccagttcagtctgtgatttgttctttggaagatgtgcagtcaattaaacccggaaaggt aacaattagtggatatgcaatatcaggagggggccgaggaatcgagagagttgatatatctattgatggcggtaaaacctggttggaagcatctagatctcagaaaaccggtacc ccttacatagcagatcatgtaagcagtgacaaatgggcatgggtgctttttgaggtcacagttgatatcccatacagtactgagatcgttgccaaagcggtggattcggctgcaaat gtgcaacctgaaaacgtgcaagatatttggaacctaagaggtattctcaacacttcatggcatcgagttcaagttcgcgtcgggcactcaaatatgtaa

15. multicopper oxidase

ggatttatggaagtcatcctacagaacaatgacactaagatgcatacttatcacatgagtggatatgcatttttcgttgtcggaatggattatggtgagtggtcggagaatagcaggg gcacatataataagtgggacgggattgcccgctccacaacacaggtttatcctggtgcatggactgcaatcttgatatcacttgacaatgtcggagtctggaaccttagaactgaaa acctcgactcatggtatcttggtcaagaaacatatgtcagggttgtcaatcccgaggctacaaacaaaactgagttgcctatgcctgacaatgccctcttttgcggtgccctaagca agttacaaaagccgcaggatgtatcatcatcattggcaacatcaatcatagagggtagatcaaaactgttctttacagtgctgatgatttcctcgacccttttcctcgtttcccgctag

16. cytosolic phosphoglucomutase

ggggcccgatcagatgtgtcaaaagttgtcaacgctgatgagtttgaatacaaggatcccgttgatggttcagtttcaaagcatcaaggtattcggtttttgttcgaggacggatcac gattggtcttccgtctctctggaactggttcagaaggtgcaactatccgtctgtacatcgagcaatacgaaaaggatccatcaaaaataggaagagattcccaagaagctcttgctc ctcttgtggaagttgctctgaaactttcgaagatgcaggagttcaccggccgatccgcaccaactgttatcacatag

17. transferase

aaagaagcagagatgggagtcttgaatcgtgcaaaatgggatgatttgggggctaatgaagttagttttggagatgggaataaacctgcgcatgtttcgtattggcttagatcgac gttgggtgggcttgtcattgttattccttctcttcaggaagataaatacactgtgaatatcattgtcacaattcctagcaagtagaggggccattaaactagcagcatgaatcgaaaat gctataaaaagaaaaagggaaatgctaataatttctccttttatttgtcatttaaatctgttggcattgccaag

18. carbonic anhydrase

aggtgatgaactaaagggcataatggaaatggaaagtggttgtgatttgtttgacaagttgaaaaatgggttcctcagtttcaaaagccataaatatatggaaaacttggaatgctat caagcactcgccaagggtcaagctcctaaatttatggtgattgcctgtgcagattcaagggtatgcccttcaaccatcttgggatttgaaccaggagaagccttcatggttcgcaat gttgcgaatatggtgccaacatatgagagtggcccatcggaaactaatgctgcactggaatttgctgtaaattcacttgaagttgaaaacgttttcatcattggtcatagctgctgtgg tggcattcgtgccctcatgagtatgcaagataaagcggaatcaagtagctttatccggagttgggttattgtcggaaagaatgcaaaactaagtacaaaggctgctgcttcaaacct cagttttgaccagcaatgcacacactgcgagaaggaatcaatcaacaattcattgttgaacctgcttacttatccatggatagaagaa

19. neutral/alkaline invertase

ggatatttagtggcaaaaatgatgctggaggacccatcacacttggggatgatttcattggaagaggacaaacagatgaagccattgctaaagagatcatcttcctggaattgcta a

20. autoinhibited H+ ATPase

gagcgaacccatttcacagagctgaaccaaatggctgaggaagccaaaaggagagcagaaattgctaggttgagagaactgcatacactgaaagggcatgtggaatcggtgg tgagattgaagaacctggacatagacacaatccagcaagcgtacacggtgtaa

21. ATP binding protein

taccacgattggtgcgagtcgtttagcacatatccgagatcgtatgatctcctgcatgccgatcaccttttctcgaagctggaaaagaggtgcaaacttcaaccagtgttggcagag gttgatagaatcgtgagaccaggtggaaaattgattgttcgtgatgaatcagatgccattggtgaagttgagaatttgttgaaatcactgcactgggaagttcatttaactttctccaaa gatcaagaaggaatactgagtgctcagaaaggtgattggcggcctacagcatatccagcttccatctga

22. signal transducer

actcccattgcgtgtcgttgtgcaggttctgtttttcgagcaggtaagggctactgcttcatcaggaagtagcactcctgacttgcctagaggcctgaaggatctaaatattggatctc atgggagctcaaggtcagcagcaacccacccggaggaagattgggatgcagtggccacagccgaggaactcaaggccctgaaaggcgaaatagctgccttgaggatgagc aacggcattggagggagtgggagaaacggcggagatagtaggaacagcgtcgacaaagttgccattagtaaaatgaaaggtttattgaaatccaagaggatattttcaaagata tggtcaagcaaaggagcccaaggtgaaaacagcggttcggattcatcagaaagtctcggttcggccaatcctgaagaagccaaatcaacaccatccagaaatag

23. signal transducer2

gaggaccctcgggtcggcagtagggaaatgaaaagagtagtgaatgaaaatgattgcaaaggcctctggtttggtgcatgatggcacgcggtgcgaaaggaaaaagtcccac tgatggtcgctgtgccagttctgtttttcccgcactcaagggctactgcttgattacgaagtagaactccggaattggctgcctgcccgaatgatctaatcattggatcactgggacg ctctatgtgctatgcctcccgcccccatcaagattgggatgcagagaccacagcttacgaacgaacagcccattctaaaagttgatgagccataactatgaccatgcgttttggaa gtcgtggcacaaactgtacagactcctcgaacaccacccaggatcttgccattacgtgtttgaaaggtttttccaaatcgtttacgactttttcaacgagatgg

24. calmodulin binding protein

ggaaaagaaccgaacaacgaccagtcatcggtaaagaatgcacatttcgaaggagaaatcagcaaagcttacgctcgttaccaactcaatttggataataaacaatccccgaaa
tcaagccaaaagccaaaccgaacatcaagtcacctatccccttctccgaaaccaccttccacaccatcccgaaagctgaagtccgcaagccctagcggcagtatcattaccccg
gatgacgacacaagaagcatagtcagcgtgcaatccgaacggaaccgaaggcacagcattgccggctcatcggtgcgtgacgacgagagcttagcaagctcgccgtcacttc
cgagttatatggtaccaactaaatcggcaagagccaaaaccaggttgcaaagtcccttgggactagaagcgaatggtacacccgataaaggaccgatcatgtcgaccaaaaaa
cgactgtcatatccaccttcaccggccaagccgaggcggcactccggcccaccgagagtcgataccagcattattactaa

25. plant synaptotagmin

agaggcgagaagagaaagacaaagcacgtaaagaaaaacagagatccaagatgggaagaggagttcacattcatgttggatgaacctcctgttaatgataaattgcatgtgga
agttcaaagcagttcatcaaggattggcctgctccatcccaaggaaacactgggttatattgatatcaatctttcagatgttgttaacaacaaaagaatcaatgagagataccatctg
atagactcaaagaatgggcggatccagattgagttgcagtggagaattaaatga

26. Root phototropism protein

atgtacagagccatagatatctacctcaaggctcaccccactataactgacttggagaggaagaaagtttgcagcctaatggattgccagaaactctctcgggaggcctgcgctc
acgctgcgcaaaatgaccgtcttcctgtccagaccgtggttcaagttctttactacgaacaacaacgccttcgagacgtcatgaacggaagcatgtcaagtggaacttccccttcc
atatcttccagagtgaatttataccctccaacagatatccacccagtttcgaatgaactttcgagcttgaaacgagagaacgaggacttgaaactagagctagtaaaaatgaaaatg
agattgaaagaaatagaaagaccatcatccgctgttccgtcagcagcaagcagtcctatgggaattattgtaccatcatctgataagcctcctttgccaagaaaatcattcatgaatt
cagtttctaagaaacttggacgcctttatcctttcggagttccgccttccggtgccaaagctcgaacaagacctagcaaagataggaggcactccatttcttga

27. PSI P700 apoprotein A2

ggatggttaagagattatctatggttaaactcttcacaacttatcaatgggtataacccatttggtatgaatagtttatcagtctgggcgtggatgttcttatttggacatcttgtttgggct
accggatttatgtttttaatttcttggcgcggatattggcaagaattgatcgaaactttagcatgggctcatgaacgcacacctttagctaatttgattcgatggagagataaaccagtg
gctctttttattgtgcaggcaagattggttggattagcccacttttctgtaggttatatatttacttatgcggctttcttgattgcctttacatcgggcaaatttggttaa

28. Harpin-induced 1

acagccaaaaacccaaacaagaaagtcgtctacagttacaacccaatcaccgtatcgcttgtcacagacgacgacatcgctattggagaaggttccttcggttccttcgtgcacg
gaactaaaaacacgaccctcttgaaagctgccataactagtagcaaccaagaactcgatgacgcgtcagctgccaaattgaagaaagctttgaagagcaagaaggggctgcca
ttaaagataaagctcgatactaaagtggaagcaaaaatgggagcattgaagacaccaaaggttgggataagggttgtttgtgaagggattaaagctactgccccgaaggcaaaa
tcagcaaccacagcttcaacttctaatgcaaaatgtaaggttgatttgagacttaagatctggaaatggactttctga

29. clathrin coat assembly protein ap-1

aaggctagaagtcagtacaaggagcgtagtactgctacaaatgttgagattgcggtgcctgtgcctactgatgcttccagtccaaatattcggacatcaatgggatctgcagcttat
gcacctgaaaatgatgcattaatgtggaaaataagatcttttcctggtggaaaggagtatatgttgagggccgagtttactcttcctagcataacagatgaagaggcaactccagag
agaaaagctcctattcgtgtaaagtttgagattccgtattttaccgtttctgggatacaggttcgatatctgaagatcattgagaaaagtggctaccaggctcttccatgggtacgatat
atcacaatggcaggcgagtatgaactaagacttatttaa

30. hypothetical protein

aggggaaaggttccatgtgaacggcacttgcacatgggttagtcgatcctaagagacgggggaagcccgtccgacagcgcgtccagcgcgagcttcgaaagggaatcgggt
taaaattcctgaaccgggacgcggcggctgacggcaacgttagggagtccggagacgtcggcgggggcctcgggaagagttatcttttctgtttaacggcctgcccaccctgg
aaacggctcagccggaggtagggtccagcggtcggaagagcaccgcacgtcgcgtggtgtccggtgcgcccccggcggcccttgaaaatccggaggaccgagtgccgtc
cgcgcccggtcgtactcataaccgcatcaggtctccaaggtgaacagcctctggtcaatggaacaatgtaggcaagggaagtcggcaaaatggatccgtaacctcgggaaaa
ggattggctctgagggctgggcacgggggtcccagtcccgaacccgtcggctgccggcgcactgctcgagctgctcccgcggcgagagcgggtcgccgcgtgccggccg
ggggacggactgggaacggctccctcgggggccttccccgggcgacgaaca

31. conserved hypothetical protein

atggcgatttcaggttcagacactcaaaacccaacaagcaaactgagtacccccctcgagactcactgcgttaaatgcgactcttgtggcttcaccgaggaatgcaccgttgctta
tatcatgcgtgtccgtgaacgttaccagggccgttggatttgcgggctctgcatcgaggcggtcaaagatgaggttgtgagatccgtaacgcttatctccaccgaggaagcattg
gatcgtcacatcagtttctgtaataagttcagggcgtggagtccttcagatgaaacagagcaccccatttttgccatgggaagagttcttcgacgaagcttggattcgcccagacct
cttaggactaaatcaagtagcgtattgcccggacttgaaggagtcaaacgcccttctcttcttcgatccgatagttgtttctcagctctttctatctaa

32. predicted protein

agtgtttcagagccagactttggcagaactccaagacaggttgattcatcaaaggaagcagaagcatccactacacaagtcaaagcatcagggtcggtaggggcatctcgcttt
ggttttggttttggctcacagcttctccagaagactgtgggattagtcttaaggcctcgctcagataaacaggctaagctgggtgaaaagaataaattctactatgatgaaaaactta
agagatgggttgaggaaggtgctgaacctccagctgaagaaccagccttggcaccacctccaaccactgctgcattccagaatggaaggtctgactacaacttgaactctacatt
gaacagcgaggtctctccttcgaatgggagcccagaattaaaaaatctaaccccagttgaacctgcttctggggtcccacctattcctaccatctccaatcaattctcagctcgtgg
acgaatgggtgttcgagcaagatatgtggacacattcaaccaaggtggtggtggccaagcaaatttattccaatcacctgctgttccctctgttaagcctgcaatggcagcaaatg
caaagttctttattcccattcctgcatcaacaaacgagcaaatgatggaggcaatagccgaaaatgcacaagaagaaaatggaactagtaataaccctacgacatccaatgcgaa
tgagttctatgaatctgcctgaatatacagaagttt

33. predicted protein

gagtttctgagagactccctgacgtctcccgacgtcatgacatcgccgttaaacttcccattatgtccgctaaatcaactcacagtggccgagtcatacgacttggtaagcgaggc
gattcacagcagcggcagcagcagcagtagcgggagttacaactcgccgagttcgcaattgagttgctgcacccagaaacagggtttcttgcagaggagcgtcagtagccatt
cccttcaaaacaaagggtttccttgttactttacctcaagccttagcgagtttgttgactctggttccggtccggttaggagagcttttagcaccggtgatttggagcaggggcggca
gagtggcggtcggcggtcggagagtccattgtcgaatgagagcagtgcgactgacataattgaaggaatgaacagaacgtaccgctacagtcctgaggaaaagaaagaaag
gattgaaagataccgatccaaaagaaacctcaggaacttcaccaagaaaatcaagtatacatgtaggaaaacattggcagacagcaggccaagaatccgaggacggtttgcaa
ggaatgaagaaattgaaaagaatgttgctcaagttgaatggagccaccacatccacattggtggacatcatga

34. predicted protein

tccccgacccgaaaacttgaccaatcgcctggcagaagaaatggggttgtgaatggggggtcagcatcagtgaggttggttcatagcagggaacccacagtgagacgtgtgtc
aagacccgacctgccgaggaaggacccgggtgagagttcaggaaggaggtcaaggtcacctgctgtgaatagatctgtaatgggtcggagcccgtctggaagaaggaccaa
tcaatcccctggtagggccagacttgatccgggagagacggataatagcaaaaaagtggagcagcagcatggtgcaactactacaaccaccatggaaggaaaatggccaagt
agcaataacaatgcagctacatcaagtgctccaaatgaatcacttgaaaatcctcttgtttcccttgaatgtttcatctttctctag

35. predicted protein

ggcggacactttttgttatctaaaggcgaagactctgaagtgggcgaacactcggcccagcgggcgaacatgccgggctccggctccgcgcacctgctgacacctttcgaagc
actttttagtgtgcgctttagttttagaatgtgtcgttcagcatcacgagtctacaagcctttctcatttcagtgctcgccttttgaatcttcagtaggggcctttagtcttttgattagagtag
gggtcgcg

36. hypothetical protein isoform 2

gaagaatgggaaaaaactgcagctgaagattgcaactccatcaagaaacagatgaatcagaccaagataaaagagagtgaattccccaaaaatggtaaatttttgaagaaggat
agcagaaacagtaaaagtgggatgcagctgctgccatctcgatcaagaagaatatttgacaagttgtgggttgtgggaaaagggcatggggagaacaaaagttccgagacctc
tggaagttcgcaaagcccgacctcgatggttccaggggatacgaagtccgcggcttcatctgccaaacacaggaggcattctatttcgtag

37. unnamed protein product

ggagatgcatgcagcacagcatgtatacctgaaagtgatactgctattcttcctgatggtgaaagcaccctctctgaaaagcttcagaaggagagaaaccagtccaccttaaagta
tgccgaagattttgtcatcaaaacgaagaagctggagaatggtttacagagtctggacaagagagcctcaatcttggacttaagattggaatgtcaggatctagagaagatttccgt
catcaatcgttttgccaagttccatggtcgggggcaagctgacggcactgagacctcattgtcctctgatgcaattgctagttctcacaaattcttctcccagagatacgtaattgcac
tcccgatgccccgtaatctccctgacagggtacaatgtctttccctttga

38. hypothetical protein

gacggtgaagattcaagggagactgaagttcaaagcaagcttaaaggacccttggataccatggatgctctacaagaggttttacctacgagaaaaggtatatccaagttttataat
ggcaaatcaaagtccttcactagtcttgctgatgctgtcactgcttcctctgttaaagaatttgcaaaaccggacaatccttataatagaaaacgcaagaacttattaactcgtggttca
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