1 tatacctcaggcgcgctggggtagggggtcaggcgggggagattgagccggtaaggacccgcggtgcgggggtttttttcttgtcgggc

91 ggggtggggagcagtggtttcgagggatcagcagcgccgaagaagaagaaggaaacggcggcagcagcctgctcaaaggtccctcggcag

181 cgcccacgacccggcccgcccgcacgctcacacgcccggctccgctcgctttggccccgccgccgtctcagggtcgacccgctcgcgact

271 tggacgcaggATGCCTTCAGAAAAGACCTTCAAACAAAGACGGAGCTTCGAACAGAGAGTAGAAGATGTACGACTGATCCGGGAGCAGCA

1 M P S E K T F K Q R R S F E Q R V E D V R L I R E Q H

361 CCCCAACAAGATACCCGTGATCATCGAGCGGTATAAAGGAGAGAAGCAGCTTCCCATGCTGGACAAGACCAAGTTCCTGGTGCCGGACCA

27 P N K I P V I I E R Y K G E K Q L P M L D K T K F L V P D H

451 CGTAAACATGAGCGAACTCATCAAGATCATCAGGAGGCGCCTCCAGTTAAATTCCAACCAGGCCTTCTTCCTCCTGGTCAACGGCCACAG

57 V N M S E L I K I I R R R L Q L N S N Q A F F L L V N G H S

541 CATGGTGTCGGTGTCGGCTGCCATCGCTGAGGTCTACGAGCAAGAGCGGGATGAGGATGGCTTCCTCTACATGGTGCATGCCTCCCAGGA

87 M V S V S A A I A E V Y E Q E R D E D G F L Y M V H A S Q E

631 GACCTTCGGCACCACCCACCTCCTCTAAacccccccccccctttcctttggacaatcattttgggttttgctcctccgcctcctttaatt

107 T F G T T H L L *

721 gcttttctttttagctgaatctggctgaatctggtaactgatcccatttcaatttggggtaaaggtgtaaaaagccaaacagacacacac

811 acaaacccatttagacaaacacacatttgatattttagtggttttgaggagttgtttctgctcgtgtgtgtaaatatgtattgcaggttt

901 tgagagcgtggaggcggtgatggtcgaggcttccctgtgtacgccgggcattcgcccacgggcccgcggacagtgggacgcagctttagc

991 tgtggacgtggacgattgtaaatagcaacaaaagaaatgccttgtctaagaatgggaccctgggggttccgggggggttccaggtagt

1081 ggtaccaggttacttcaggacactactgcacgtatgaggctgttgtcattatgagtgtttccaagttatcctaacttctgaggcccctgc

1171 agttatctgacacttgtgtgcgtttcagtctctcctcaccatcttctccataaactgtttagctgcttttatctgtttttaggaacatca

1261 ctgttattaatttaatgtaattgggtttttttttaaattctattgtccttgtactgactccaaacgtgtctttttgaccagtgttgaagag

1351 aggagtcgcttctgtgttgtgtttttgggctctctctctctctctctctctctaacacacacagtgcaatatcatacagcttcttatgta

1441 ttctgtttatatttttgtaaacaataaaagtaggaaaaaaaaaaaaaaaaaaaaaaaaaa

**Figure S1** Nucleotide and amino acid sequences of LC3 of *T. fasciatus*. Note: The predicted APG12domain are marked with straight line in black. The start codon and end codon are in blue.