**Figure S1.** Nucleotide (accession no. KP317124) and deduced amino acid sequence (accession no. AKH60756) of *RmATG3* from *Rhipicephalus microplus.* Asterisk indicates the stop codon. Primers used to amplify the gene are shaded in grey: F-RmATG3 5’-GCA TGT ATG GGT GTG TTT CG-3’ and R-RmATG3 5’-AAA ATG AGC ACG GTT CCA TC-3’.

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**Figure S2.** Nucleotide (accession no. KR822806) and deduced amino acid sequence (accession no. ALK28521) of *RmATG4* from *Rhipicephalus microplus.* Asterisk indicates the stop codon. Primers used to amplify the gene are shaded in grey: F-RmATG4 5’-CTT CTT TCA AGA ATG GCT G-3’ and R-RmATG4 5’-GGA GGC TGT TGC ATC TCT TC-3’.

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**Figure S3.** Nucleotide (accession no. KR822807) and deduced amino acid sequence (accession no. ALK28522) of *RmATG6* from *Rhipicephalus microplus.* Asterisk indicates the stop codon. Primers used to amplify the gene are shaded in grey: F-RmATG6 5’-GTC CGA TCC GTC GTC ACT AT-3’ and R-RmATG6 5’-GAA GTT GTA CAC GCG GTT GTT-3’.

