

Additional file2: Table S1. Oligonucleotide sequences and names of the primers used for qRT-PCR, RNAi and cloning of *Rhipicephalus haemaphysaloides* genes.

Primer name	Sequence [5'-3']
RhEcR1-28a-F	ATGGGTCGCGGATCCGAATTC ATGCTCTCTGAGCTGCAG
RhEcR1-28a-R	CTCGAGTGCGGCCGCAAGCTT CTACTCTTGGATGTCCCA
RhEcR2-28a-F	ATGGGTCGCGGATCCGAATTC ATGGCGGGCCACCT
RhEcR2-28a-R	CTCGAGTGCGGCCGCAAGCTT CTACTCTTGGATGTCCCA
RhEcR3-28a-F	ATGGGTCGCGGATCCGAATTC ATGAGCCCTAGCAGT
RhEcR3-28a-R	CTCGAGTGCGGCCGCAAGCTT CTACTCTTGGATGTCCCA
RhUSP1-28a-F	ATGGGTCGCGGATCCGAATTC ATGTACAAGAAGGAGCGG
RhUSP1-28a-R	CTCGAGTGCGGCCGCAAGCTT TCACGCATCAGATGGGGTCT
RhUSP3-28a-F	ATGGGTCGCGGATCCGAATTC ATGGCCACACAGGAA
RhUSP3-28a-R	CTCGAGTGCGGCCGCAAGCTT TCACGCATCAGATGGGGTCT
RhEcR-RNAi-1F	GGATCCTAATACGACTCACTATAGG CAGCACAACACGAGAGAGC
RhEcR-RNAi-1R	GCTGGTTGTTGGCAAACACGATAGAA
RhEcR-RNAi-2F	CAGCACAACACGAGAGAGC
RhEcR-RNAi-2R	GGATCCTAATACGACTCACTATAGG GCTGGTTGTTGGCAAACACGATAGAA
Conserved-EcR-RNAi-1F	GGATCCTAATACGACTCACTATAGG GACAGCGAGGAAGACAACCA
Conserved-EcR-RNAi-1R	AAGCACATCTCGGCGTTCAT
Conserved-EcR-RNAi-2F	GACAGCGAGGAAGACAACCA
Conserved-EcR-RNAi-2R	GGATCCTAATACGACTCACTATAGG AAGCACATCTCGGCGTTCAT
RhUSP-RNAi-1F	GGATCCTAATACGACTCACTATAGG CGAGAGGAGCGCAATTGTGTC
RhUSP-RNAi-1R	GAAGATGGCACCAACGCCAGCACTGT
RhUSP-RNAi-2F	CGAGAGGAGCGCAATTGTGTC
RhUSP-RNAi-2R	GGATCCTAATACGACTCACTATAGG GAAGATGGCACCAACGCCAGCACTGT
Luciferase-RNAi-1F	GGATCCTAATACGACTCACTATAGG GCTTCCATCTTCCAGGGATACG
Luciferase-RNAi-1R	CGTCCACAAACACAACCTCCTCC
Luciferase-RNAi-2F	GCTTCCATCTTCCAGGGATACG
Luciferase-RNAi-2R	GGATCCTAATACGACTCACTATAGG CGTCCACAAACACAACCTCCTCC
RhEcR-qRT-PCR-F	CAGGCAACAGGAGGAACCTATG
RhEcR-qRT-PCR-R	ACTGGTAGACCGCATTCCTTG
RhEcR1-qRT-PCR	GAGGTGGCCTCCATGAAA
RhEcR1-qRT-PCR-R	GGCAGGTTTGGTGAGAGT

RhEcR2-qRT-PCR-F	CCGGCGATGAACTACCAC
RhEcR2-qRT-PCR-R	GCTAGGGCTCATCTCTTCTTTG
RhUSP-qRT-PCR-F	AGATGCGCGAGATGAAGATG
RhUSP-qRT-PCR-R	AGCGTATACCTTCTCCCTTAGA
RhUSP1-qRT-PCR-F	GCTTTCTGTAACTGCTCTGTTG
RhUSP1-qRT-PCR-R	CTGCTCGAGACTCCGTTG
RhUSP3-qRT-PCR-F	ATGGCCACACAGGAACG
RhUSP3-qRT-PCR-R	CCAACGGTGATCGACTAGC
ELF1α-qRT-PCR-F	CGTCTACAAGATTGGTGGCATT
ELF1α-qRT-PCR-R	CTCAGTGGTCAGGTTGGCAG
RhFOXO-qRT-PCR-F	AGGTGATGGGTCGTCTTCTA
RhFOXO-qRT-PCR-R	AGTTGAAGTCCAGGTTTCCG
RhBcl2-qRT-PCR-F	GAGAAGAAGTGGTCCGAACTG
RhBcl2-qRT-PCR-R	CCATCCTTGGTGGTCCTTTATC
RhCaspase7-qRT-PCR-F	CCGAATGGCCAGCACTAATA
RhCaspase7-qRT-PCR-R	GGTGCGACATGTTGTACTCT
RhCaspase8-qRT-PCR-F	GATCTCAAGCCACTTCCTACC
RhCaspase8-qRT-PCR-R	CCAAGGTTATGATGCTCCTCTC
RhCaspase9-qRT-PCR-F	CTAACATGACTGCATCCGAAATG
RhCaspase9-qRT-PCR-R	GCCGTGTGACATGAGGATTA
3xFlag-C-EcR1-F	GGAGCTGCAGTTGCTAAGCTT ATGCTCTCTGAGCTGCAGCTG
3xFlag-C-EcR2-F	GGAGCTGCAGTTGCTAAGCTT ATGGCGGGCCACCTGGTGC
3xFlag-C-EcR3-F	GGAGCTGCAGTTGCTAAGCTT ATGAGCCCTAGCAGTGG
3xFlag-C-EcR-R	TGAATTCGCGGCCGCAAGCTT CTCTTGATGTCCCAAATCT
HA-N-USP1-F	ATGGCCATGGAGGCCCGAATT ATGTACAAGAAGGAGCGGCC
HA-N-USP3-F	ATGGCCATGGAGGCCCGAATT ATGGCCACACAGGAACGA
HA-N-USP-R	AGATCTCGGTCGACCGAATTC TCACGCATCAGATGGGGTCT
EGFP-C3-EcR1-F	TCAGATCTCGAGCTCAAGCTT ATGCTCTCTGAGCTGCAGCTG
EGFP-C3-EcR2-F	TCAGATCTCGAGCTCAAGCTT ATGGCGGGCCACCTGGTGC
EGFP-C3-EcR3-F	TCAGATCTCGAGCTCAAGCTT ATGAGCCCTAGCAGTGG
EGFP-C3-EcR-R	CGACTGCAGAATTCGAAGCTT CTCTTGATGTCCCAAATCT
mCherry-USP1-F	AGCCCGGGCGGATCCAAGCTT

	ATGTACAAGAAGGAGCGGCC
mCherry-USP3-F	AGCCCGGGCGGATCCAAGCTT ATGGCCACACAGGAACGA
mCherry-USP-R	ATCGAATTCCTGCAGAAGCTT CGCATCAGATGGGGTCT