

**S1 Table. Oligonucleotides used in this study**

<b>Oligo Sequence 5' to 3'</b>	<b>Purpose</b>
GGTATCGTGCTCGACTC	<i>Ixodes scapularis actin</i> gene, qPCR
CAGGGCGACGTAGCAG	
CCCTAGGCACCAGGGTGTGA	Mice actin gene, qPCR
GGGGTGTGTAAGGTCTCAAACA	
CCAGCGTTTAGCAAGATAAGAG	<i>Anaplasma phagocytophilum -p44</i> gene
GCCCAGTAACAACATCATAAG	
GCGGTTCATAAAGGAGTGGA	<i>Anaplasma phagocytophilum -dnaA</i> gene
AAACTTCCTGCGCCTCTGTA	
TAAACAATTAAGCTTTCTT	Tick 16s rRNA (mt), qPCR
AATCGCTAAAACGGAECTTA	
CCGTCACGAAAACGCCTTCA	<i>I. scapularis isoatp4056</i> qPCR
GCTTCCACACGTCCACCTTCT	
TGGGATCCATGGCGTCCAGCTGCCT	<i>I. scapularis isoatp4056</i> gene (Complete Coding part), Sequencing
TGGTCGACGAGTATGTCTCAACACCTC GCA	
GGGTGTTCCACTGCACTCAGTA	<i>I. scapularis henna</i> gene ( <i>phenylalanine hydroxylase</i> ) qPCR
GCACGTAGCCAATTTCTCAATC	
GCACAAGCGGGAECTCAAGGA	<i>isoatp4056</i> 3' UTR region, sequencing
GTCATCCTGCAACTACCAGAGAGA	
GTCTGGCCTTTCACTACTCCTA	Renilla luciferase (pmirGLO vector), qPCR
GAGCATGGTCTCGACGAAGA	
GCCAAACGCTTCCACCTACCA	Firefly luciferase (pmirGLO vector), qPCR
GGTTCACACCCAGTGTCTTACC	
CCAGTGCAAATGACCAACTTTAG	isc-miR-133 gene, sequencing
CTTCACGAACGCACAGAAGGA	
CACCTTATCAGCGAGTCATCAA	isc-miR-124 gene, sequencing
CCGGAACACATCTTCTGATTG	
GCTTCGGCAGTACATATACTAA	U6 spliceosomal RNA, sequencing
CTTCACGATATTGCGTGTCAT	
TCTAAGCGGTGGATCACTCGGT	5.8s ribosomal gene, sequencing
GACCCTCACACAGACGAAGCCA	
TCGTTAGTCCCCTTCAACCAG	isc-miR-133 qPCR
TCGTTGGTTATCTAGCTGTATGA	isc-miR-9b qPCR
TAATACACACGGTGAATGCCAA	isc-miR-124 qPCR
CACAACCTCCTTGAGTGAGTGA	Isc-miR-307 qPCR
TATTGTACTCGTCCCGGCCTT	Isc-miR-235 qPCR
GGACGATACAGAGAAGATTAGCA	U6 RNA qPCR
GCGTACCCTGTAGATCCGAA	isc-miR-10 qPCR
TCCCTGAGACCCTAACTTGTGA	isc-miR-125 qPCR
GCGAGGTAGTAGGTTGTATAGT	isc-let7 qPCR
GTGTAGTCTGGCAGAAACGTC	isc-miR-5310 qPCR
CGTGTACTTCATCAGGTGCTCT	isc-miR-305 qPCR

<b>Oligo Sequence 5' to 3'</b>	<b>Purpose</b>
TCTTGTCTCTGTGTCGTCGTT	isc-miR-5317a
MIRUP-MystiCq® Universal PCR Primer (Sigma, USA)	MicroRNA qPCR Universal Reverse
AAAC TA GCGGCCGC TAGT CAAGCTGGTTGGGCTGGGCCAG T CTAGA CTGGCCCAGCCCAACCAGCTTG ACTA GCGGCCGC TA GTTT	isc-miR-133-targetSite ( <i>isoatp4056</i> - 22bp) Sense and Anti sense oligo's
AAAC TA GCGGCCGC TAGT CAAGCTGGTTGGGCTGAACAG T CTAGA CTGTTTCAGCCCAACCAGCTTG ACTA GCGGCCGC TA GTTT	isc-miR-133 mismatch site Sense and Anti sense oligo's
TAATACGACTCACTATAGGGAG - TCGACCGACTTCGGCCCGGTTTAGC AGTTTAAGGGTACTTTCCTTAGTTATGT AAACCAGGGGAAGTTGGTCGACACT	pre-mir-133 precursor sequence with T7 promotor at 3'UTR (DNA template)