

Additional file 1 PCR primers used to amplify and sequence the mitochondrial genome of the house louse, *Haematopinus asini*

Primer	Sequence (5' to 3')	Target gene or region
12SA	TACTATGTTACGACTTAT	<i>rrnS</i>
12SB	AAACTAGGATTAGATACCC	<i>rrnS</i>
16SF	TTAATTCAACATCGAGGTCGCAA	<i>rrnL</i>
Lx16SR	GACTGTGCTAAGGTAGCATAAT	<i>rrnL</i>
mtd6	GGAGGATTTGGAAATTGATTAGTTCC	<i>cox1</i>
mtd11	ACTGTAAATATATGATGAGCTCA	<i>cox1</i>
mtd16	ATTGGACATCAATGATATTGA	<i>cox2</i>
mtd18	CCACAAATTTCTGAACATTGACCA	<i>cox2</i>
12sB2448F	GTCAAGTCAAGGTGCAGACGATAACAAGGC	<i>rrnS</i>
12sB2448R	CACATTACAACCTTCCGACAGCGGTGTACA	<i>rrnS</i>
16sB2448F	CTATTTACTTGGGAAGAGGGCTTAAAGGA	<i>rrnL</i>
16sB2448R	TCTATAGGGTCTTCTCGTCCTGCTAGAC	<i>rrnL</i>
cox1B2448F	AGAGGAGGATACACTGTTCAACCAGTCCC	<i>cox1</i>
cox1B2448R	GCCAACCAGGCTGTTCTGTTGACTTAGC	<i>cox1</i>
cox2B2448F	GCTGTCATACCTCTCATCTGACCAATCAGTG	<i>cox2</i>
cox2B2448R	GTTTCGGCTGTTAGTTACTTCTTCGGATGTG	<i>cox2</i>
B2448F	TCGAAGTGTAATTAGTGTTGTTTCAACTCGGAA	NCR
B2448R	CCCTATTTTTAGGATAGGGGGTATGGGAA	NCR

Note: Abbreviations of target gene or region names are: *rrnS* and *rrnL* for small and large ribosome RNA subunits; *cox1-2* for cytochrome c oxidase subunits 1-2; and NCR for non-coding region.