

Additional file 2 – PCR primers used to verify the mitochondrial minichromosomes of the rat lice, *Hoplopleura akanezumi* (Hoa) and *Hoplopleura kitti* (Hok).

Primer	Target gene	Sequence (5' to 3')
249M1F	<i>trnN</i>	GCATTGTTAGTGCAATCATAGGATTCTACC
249M1R	<i>trnN</i>	CCTCAGCCATTGGTTTTAACTAATGC
249M2F	<i>trnS<sub>1</sub></i>	CTAAAGTGATTTGTGCCACTTATACCCC
249M2R	<i>trnS<sub>1</sub></i>	TTAGAAGTCATGAATAGGTTTCTTACCCCG
249M3F	<i>cox1</i>	CAGAGGGAGCTTATTCTTGAACCCAC
249M3R	<i>cox1</i>	GGGAGAGCTCTAATCGAATTAATAATCC
249M4F	<i>cox2</i>	GTGTCTAGTGCAGACGTTCTCCACAGATGG
249M4R	<i>cox2</i>	GGAACCGAACTTCTGTAAGTAAGGGGATGC
249M5F	<i>cox3</i>	CTATTCCTGGGATTCCAGGTAGTTGAGTAC
249M5R	<i>cox3</i>	GCAGCCAAGAAGGCATGTGACAAGTAGC
249M6F	<i>nad2</i>	GTTATAGCCTTCGTGGAGCTGTTTCCTTC
249M6R	<i>nad2</i>	GCAAATTGCGAGAACTCTAAATGTTCTGTAG
249M7F	<i>nad4</i>	CTCTGAGGCGGCTTGGCTTGACTTTCTTTC
249M7R	<i>nad4</i>	CCTCCACTAGAGAGTGGTAAGAATTGATGG
249M8F	<i>nad6</i>	GGACTTTTGTAGTCCC TAGCTCTAACCTC
249M8R	<i>nad6</i>	GAGAGAATAACACCTTGGAAGGGCTACAC
249M9F	<i>rrnS</i>	AAGGGGATAAGTCAAGTCAAGGTGCAGCC
249M9R	<i>rrnS</i>	CTATCACCTTCCGACAGCGGTGTACAAGA
249M10F	<i>rrnL</i>	GGAAAGTAATTTTACCTGGGAAGGGGCTC
249M10R	<i>rrnL</i>	CAAGATCTATAGGGTCTTCTCGTCCCTCTG
249chimericF	<i>prnS</i>	CGCCCCGTCACCTCCGTATAATAGCGGATAAG
249chimericR	<i>prnL</i>	CAACACAAACGTTGAAACTGTTTACCCTC
344M1F	<i>trnN</i>	GGACAGACTCCTAACTACGTTTCTAGGAGG
344M1R	<i>trnN</i>	GACCACAGTAACAATGTGGAACCTCAAT
344M2F	<i>trnE</i>	GCCTGGAAGAATTGTTGTCTGTAAAG
344M2R	<i>trnE</i>	GGACCGTTTACCCAATGAAATTGGAATG
344M3F	<i>trnI</i>	GGCGGTACGGTAGGACATACCTCATAAGG
344M3R	<i>trnI</i>	CATCAAAGCGTCCGTAAACTCCGGCACC
344M4F	<i>cox2</i>	GAGGGTTGATAATGAAGTGTGCCTCCC
344M4R	<i>cox2</i>	GGGAGCTAGGACTAGTGTGTTGATGAGTC
344M5F	<i>cox3</i>	CGAGGGGAGTTTCTATTACATGATCCCATC
344M5R	<i>cox3</i>	CTCCGATTGGAGGTGTATACAACCGACCG
344M6F	<i>nad1</i>	GGCAACTCCAATTAATATTGCTACTATGGC
344M6R	<i>nad1</i>	CCCTCTTGAACGGAAACTAATAGGAACAG
344M7F	<i>nad2</i>	GTGTACTCTTCCATTTTAAGGAGAGGGTG
344M7R	<i>nad2</i>	GATATGACGGAGCCTAAAGGATACCAAGG
344M8F	<i>trnK</i>	GCTTCGAGATTTTAACTCGACTAAAACC
344M8R	<i>trnK</i>	CATAAGCTACCAAGAAATGTGTGAGTTC
344M9F	<i>nad6</i>	GAT AGG AGA TTA GCT TGT TCC AGT CAA CTC
344M9R	<i>nad6</i>	GTA CAC TCA TTT CAA CTT TCG AGG GGC TAC
344M10F	<i>rrnS</i>	GGTGATATCCCGTAACTCACCGTATCCCA

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344M10R	<i>rms</i>	CCGACAGCGGTGTACAAGATTTAAGCAAAGG
344M11F	<i>rml</i>	GTAGGGATGAATTTACCTGGGAAGGGG
344M11R	<i>rml</i>	GGTCTTCTCGTCCCCTGAGACATTTAAGC

Note: Primers with "249" are for *H. akanezumii*; those with "344" are for *H. kitti*