

Additional file 2 - PCR primers used to verify the mitochondrial minichromosomes of the rat lice, *Polyplax asiatica* and *Polyplax spinulosa*

Primer	Target gene	Sequence (5' to 3')
57M1F	<i>atp6</i>	CTAATGGGGGTTTACATGGTGCTCCTAAC
57M1R	<i>atp6</i>	CTCAAAGCTAAAGGCTTACCTTCCTTCAGC
57M2F	<i>cob</i>	GATTTCTTAGGGGTGTCCGTTTTAGGGAGG
57M2R	<i>cob</i>	GAGATGAAATAAGGGTGAAAGGCCACTTTG
57M3F	<i>cox1</i>	GGGAGTTTAGGGATAATTTATGCCATGAGG
57M3R	<i>cox1</i>	CTCCCCATTTTCATCGGAAATTATGTGAG
57M4F	<i>cox2</i>	GACTCGTACCTTTTGCCTAAGGAGTGGGAG
57M4R	<i>cox2</i>	CAAGAAGGTCTCTAGGCTCGTAGGAGAG
57M5F	<i>trnR</i>	CAAGTTGGCCTAAGATAATAGGCTTCACC
57M5R	<i>trnR</i>	GGCCGAAACTACATGCTAACAAATAGC
57M6F	<i>trnS₁</i>	GGTAAAGAGCGTAACGCCTCTTCCTTGCC
57M6R	<i>trnS₁</i>	CCTTGATTAGAAGTCACGGGCAGACTTCC
57M7F	<i>nad2</i>	GGTCTCAGTTTCCTTGGACTAACTCAGC
57M7R	<i>nad2</i>	GAAGAAATTAATCCCTCTCTGCCCTAGCC
57M8F	<i>nad4</i>	GGAAGCATTATCCTGGCCGGATACCTTC
57M8R	<i>nad4</i>	CCTAAGGGGAGCCTCCACATGAGCCTTTG
57M9F	<i>nad5</i>	CATTCCTCCACCTTGGTTACTGCTGGTC
57M9R	<i>nad5</i>	CTAAACTTCTAACTGGGGTAGGTGCCGC
57M10F	<i>rrnS</i>	CCTTCCCTGTTATGTTTTGTACACCGCTG
57M10R	<i>rrnS</i>	GATATTCGGGCGGCTTCGATTAGGGACATG
57M11F	<i>rrnL</i>	CCTGTAGAGCTTTAATCTGGCTAAACCAG
57M11R	<i>rrnL</i>	GTCTTCTCGTCCCTCTATCCTATCTGGGAG

301M1F	<i>atp6</i>	GGGAGGGGCTATCTACATGTTCTCAAAG
301M1R	<i>atp6</i>	CATATGGGGAGGCAAATTGTCAATCTCC
301M2F	<i>cob</i>	GGGCTAAGTCCTCATTCCCATAAAGTAGC
301M2R	<i>cob</i>	GGGGTTTGATCTTCCCTTTTCGTGGAG
301M3F	<i>cox1</i>	GGCGAGCTTATTTTACTAGGGCAACGATG
301M3R	<i>cox1</i>	CATCTAGCCCAACAGTGAATATGTGGTGCG
301M4F	<i>cox2</i>	CTGGTCATACGAAGAGTATAAGCCTCAGC
301M4R	<i>cox2</i>	GGCCAATTACCTTGGATATAATCGCTGG
301M5F	<i>trnR</i>	CGGCCTAACAGAATCTAGAAAGATTGGTC
301M5R	<i>trnR</i>	CCGCATAAATCATGCTCTTGCCCATAAGC
301M6F	<i>trnG</i>	CCAGTTAAAAGGTCCCGGCAAAGGGTTAAG
301M6R	<i>trnG</i>	CTTAAGATTTCGCCTATTAAGCTCCCTAGC
301M7F	<i>nad2</i>	GATCGAGGAGTCAATTCGACGGGCTATAG
301M7R	<i>nad2</i>	CTCCCTTGATTGAAACAAGAGTCGAGAGG
301M8F	<i>nad4</i>	GCATCTACCTCTGGTAGAGTGTTGTTAGCG
301M8R	<i>nad4</i>	CAACATGCGCCTTTGGCAGCCAGTAATGA
301M9F	<i>nad5</i>	GAGGACGACAAGACTCTCGGTCTCTTATTC
301M9R	<i>nad5</i>	CTCCTCATGGAGAATAACTCCTGCAACC
301M10F	<i>rrnS</i>	CAGTAAACGAAACTGCCCGAACACTTTAC
301M10R	<i>rrnS</i>	CATATGCCTCTGAATAGACTCTCTACCGCC
301M11F	<i>rrnL</i>	GAAGGCTAGAATGAAAGGGTAAACCGAGG
301M11R	<i>rrnL</i>	GGCAAATTATTATGCTACCTTAGCACGGTC

Note: Primers with “57” are for *Polyplax asiatica*; those with “301” are for *Polyplax spinulosa*.