**Additional file 1**

图示

描述已自动生成

Supplementary Figure S1. The phylogenetic tree was inferred from the nucleotide sequences of COI via MrBayes via the Bayesian inference (BI) method. The sequences of COI of *D. ludingensis* which marked with blue were downloaded from NCBI, and which marked with rad were in this study, respectively.

PP783822 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

PP783826 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

PP783821 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

PP783824 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

PP783827 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

LC015046 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

HQ945375 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

JF871777 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783832 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783834 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783831 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783828 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783820 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783833 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783829 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACTTCTCTTAGAATTTT

PP783825 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

PP783830 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGAATTTT

PP783823 AACATTATATTTTATTTTAGGAGTATGATCTGGAATAGTAGGAACCTCTCTTAGGATTTT

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PP783822 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783826 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783821 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783824 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783827 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

LC015046 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

HQ945375 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

JF871777 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783832 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783834 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783831 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783828 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783820 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783833 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAGTTTATAATGT

PP783829 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783825 AATTCGAATAGAATTAGGGCACCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783830 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

PP783823 AATTCGAATAGAATTAGGGCATCCTGGAGCTTTAATTGGAGATGATCAAATTTATAATGT

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PP783826 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783821 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783824 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783827 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

LC015046 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

HQ945375 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

JF871777 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783832 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783834 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783831 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783828 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783820 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783833 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783829 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783825 AATTGTCACCGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783830 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

PP783823 AATTGTCACTGCACATGCATTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGG

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PP783826 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783821 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGGGCCCCTGATATAGCTTTTCCCCG

PP783824 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGGGCCCCTGATATAGCTTTTCCCCG

PP783827 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGGGCCCCTGATATAGCTTTTCCCCG

LC015046 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGCGCCCCTGATATAGCTTTTCCCCG

HQ945375 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

JF871777 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783832 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783834 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783831 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783828 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783820 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783833 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783829 AGGATTCGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783825 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783830 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

PP783823 AGGATTTGGAAATTGATTAGTTCCTTTAATATTAGGGGCTCCTGATATAGCTTTTCCCCG

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PP783826 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783821 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783824 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783827 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

LC015046 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

HQ945375 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

JF871777 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

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PP783834 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783831 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783828 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783820 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783833 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783829 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783825 GATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783830 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

PP783823 AATAAATAATATAAGATTTTGAATGTTACCCCCTTCATTATCATTATTATTAATTAGTAG

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PP783826 AATAGTAGAAAATGGGGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783821 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

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LC015046 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

HQ945375 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

JF871777 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

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PP783834 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783831 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783828 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783820 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783833 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783829 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783825 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783830 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

PP783823 AATAGTAGAAAATGGAGCAGGAACTGGATGAACAATTTACCCCCCCTTAGCAAATAACAT

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PP783826 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783821 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783824 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

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LC015046 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

HQ945375 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

JF871777 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783832 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783834 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783831 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783828 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783820 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783833 TGCTCATAGAGGAGCCTCTGTAGATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783829 TGCTCATAGAGGAGCCTCTGTAAATTTAGCTATTTTTTCCCTTCATTTAGCCGGTATCTC

PP783825 TGCTCATAGAGGGGCCTCTGTAGATTTAGCTATTTTTTCTCTTCATTTAGCCGGTATCTC

PP783830 TGCTCATAGAGGGGCCTCTGTAGATTTAGCTATTTTTTCTCTTCATTTAGCCGGTATCTC

PP783823 TGCTCATAGAGGGGCCTCTGTAGATTTAGCTATTTTTTCTCTTCATTTAGCCGGTATCTC

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PP783822 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783826 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

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PP783824 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

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HQ945375 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

JF871777 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

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PP783834 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783831 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783828 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783820 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783833 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783829 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783825 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783830 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

PP783823 ATCAATTTTAGGAGCAATAAATTTTATCACTACTATTATAAATATACGATCAAATGGAAT

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PP783826 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783821 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783824 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783827 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

LC015046 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

HQ945375 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

JF871777 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783832 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

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PP783831 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783828 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783820 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

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PP783829 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783825 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783830 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

PP783823 ATCTTTTGACCGAATGCCATTATTTGTTTGATCAGTATTAATTACAGCAATCCTATTACT

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PP783826 TCTCTCTTTACCCGTTCTAGCTGGAGCCATTACAATACTATTAACAGATCGAAATTTAAA

PP783821 TCTCTCTTTACCCGTTCTAGCTGGAGCCATTACAATACTATTAACAGATCGAAATTTAAA

PP783824 TCTCTCTTTACCCGTTCTAGCTGGAGCCATTACAATACTATTAACAGATCGAAATTTAAA

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LC015046 TCTCTCTTTACCCGTTCTAGCTGGAGCCATTACAATACTATTAACAGATCGAAATTTAAA

HQ945375 TCTCTCTTTACCCGTTCTAGCTGGAGCCATTACAATACTATTAACAGATCGAAATTTAAA

JF871777 TCTCTCTTTACCCGTTCTAGCTGGAGCCATTACAATACTATTAACAGATCGAAATTTAAA

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PP783823 TCTCTCTTTACCCGTTTTAGCTGGAGCCATTACAATACTATTAACAGATCGAAATTTAAA

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PP783822 TACATCTTTTTTTGATCCTGCAGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

PP783826 TACATCTTTTTTTGATCCTGCAGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

PP783821 TACATCTTTTTTTGACCCTGCGGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

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LC015046 TACATCTTTTTTTGACCCTGCGGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

HQ945375 TACATCTTTTTTTGACCCTGCGGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

JF871777 TACATCTTTTTTTGACCCTGCGGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

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PP783828 TACATCTTTTTTTGACCCTGCGGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

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PP783830 TACATCTTTTTTTGACCCTGCGGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

PP783823 TACATCTTTTTTTGACCCTGCGGGAGGAGGAGATCCTATCTTATATCAACATTTATTT

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Supplementary Figure S2. Alignment of the nucleotide sequences of 18 COI of the *D. ludingensis*. The identical nucleotide residue was indicated by \*. Letters displayed on a yellow background signify sequences that exhibit base differences. The GenBank submission numbers highlighted in red or blue signify that their sequences are identical, respectively.