**Table S1 Universal and specific primers used to amplify the mitochondrial genome of *S. longialata***

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| Primers | Number | Primer name | Sequence (5’-3’) |  |
| Universal primers | 1 | FY-J-214 | AAGCTHDTRGGTTCATAYCCY | Simon, 2006 |
| FY-N-1873 | AANGGDGGRTAVACNGTYCA | Simon, 2006 |
| 2 | FY-J-1423 | ACDAAYCAYAARGAYATYGG | Simon, 1994et al., 1994 |
| FY-N-2329 | ACDGTRAAYATRTGRTGNGCYCA | Simon;1994 |
| 3 | FY-J-2198 | TATTHTGATTYTTYGGNCAYCCHGAAGT | Simon, 2006 |
| FY-N-3705 | GCYCCRCARATTTCNGAACATTG | Simon, 2006 |
| 4 | FY-J-4463 | TTYGCHCAYYTDGTNCCNCARGG | Simon, 2006 |
| FY-N-5748 | GGRTCRAANCCRCAYTCRAANGG | Simon, 2006 |
| 5 | FY-J-5747 | CCATTYGAATGTGGATTTGAYCC | Simon, 2006 |
| FY-N-6160 | YCAATTMTATCATTAACAGTGA | Simon, 2006 |
| 6 | FY-J-7077 | AARTCCTTWGARTAAAAKCC | Simon, 2006 |
| FY-N-7793 | TTRGGTWGRGATGGDTTRGG | Simon, 2006 |
| 7 | FY-J-7572 | AAANGGRATYTGNGCDCTYTTHGT | Simon, 2006 |
| FY-N-8741 | AYTTCRATNGYTTGHCCHT | Simon, 2006 |
| 8 | FY-J-8641 | CNGAHGAACAHARNCCRTG | Simon, 2006 |
| FY-N-9629 | GTHTGYGARGGAGCWYTKGG | Simon, 2006 |
| 9 | FY-J-10885 | AYGTYCTRCCYTGRGGWCARATRTC | Simon, 1994 |
| FY-N-12964 | TTACCTTARGGATAACAGCRTAW | Zhang et al., 2018 |
| 10 | FY-J-11335 | CAYATYCARCCHGARTGRTA | Zhang et al. 2008 |
| FY-N-12965 | TTACCTTAGGGATAACAGCRTWA | Zhang et al. 2018 |
| 11 | FY-J-12831 | CGGTYTGAACTCAGATCATGTA | Simon, 1994 |
| FY-N-13889 | KTACCTTKTGTATCAGGGTT | Simon, 2006 |
| 12 | FY-J-13286 | CTTTGCACRGTCAVWATACYGC | Zhang et al., 2018 |
| FY-14722 | GTGCCAGCVDCCGCGGTTANA | Simon, 2006 |
| Specific primers | 13 | HDJL-J-3337 | ATTGCTTTACCCTCCTTACG |  |
| HDJL-N-4447 | CCTTGTGGAACTAGGTGAGC  |  |
| 14 | HDJL-J-3703 | CATTAGATGACTGAAAGCAAG  |  |
| HDJL-N-7518 | AATCTTATCTATGGGGTATGC |  |
| 15 | HDJL-J-6797 | TAAATAAGCATACCCCATAG |  |
| HDJL-N-8176 | TATTACATTGGGTTCCTTTA |  |
| 16 | HDJL-J-9565 | AGCACCCTCACATACACTAA |  |
| HDJL-N-10988 | ATGGACTATTGTAGCAGCAG |  |
|  | 17 | HDJL-J-14119 | TAAAAAGAGTGACGGGCGA |  |
|  | HDJL-N- 454 | GTTGTGGATGCTAATGCTTG |  |