SI Table 1: Primers used in amplification and sequencing. F = forward; R = reverse; A = used in PCR amplifications; S = used in sequencing reactions.

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| **Locus** | **Primer** | **Usage** | | **Sequence (5’ – 3’)** | **Reference** |
| *atpA* | ESATPA535F | F | S | ACAGCAGTAGCTACAGATAC | (Schuettpelz et al. 2006) |
| *atpA* | ESATPA557R | R | S | ATTGTATCTGTAGCTACTGC | (Schuettpelz et al. 2006) |
| *atpA* | ESATPA856F | F | S | CGAGAAGCATATCCGGGAGATG | (Schuettpelz et al. 2006) |
| *atpA* | ESATPA877R | R | S | CATCTCCCGGATATGCTTCTCG | (Schuettpelz et al. 2006) |
| *atpA* | ESATPF412F | F | A, S | GARCARGTTCGACAGCAAGT | (Schuettpelz et al. 2006) |
| *atpA* | ESTRNR46F | R | A, S | GTATAGGTTCRARTCCTATTGGACG | (Schuettpelz et al. 2006) |
| *atpB* | ATPB910R | R | S | TTCCTGYARAGANCCCATTTCTGT | (Pryer et al. 2004) |
| *atpB* | ESATPB172F | F | A, S | AATGTTACTTGTGAAGTWCAACAAT | (Schuettpelz and Pryer 2007) |
| *atpB* | ESATPB701F | F | S | TATGGTCAGATGAATGAACC | (Schuettpelz and Pryer 2007) |
| *atpB* | ESATPE45R | R | A, S | ATTCCAAACWATTCGATTWGGAG | (Schuettpelz and Pryer 2007) |
| *rbcL* | ESRBCL1361R | R | A, S | TCAGGACTCCACTTACTAGCTTCACG | (Schuettpelz and Pryer 2007) |
| *rbcL* | ESRBCL1F | F | A, S | ATGTCACCACAAACGGAGACTAAAGC | (Schuettpelz and Pryer 2007) |
| *rbcL* | ESRBCL663R | R | S | TACRAATARGAAACGRTCTCTCCAACG | (Schuettpelz and Pryer 2007) |
| *rbcL* | ESRBCL645F | F | S | AGAYCGTTTCYTATTYGTAGCAGAAGC | (Schuettpelz and Pryer 2007) |
| *atp1* | CRATP1F1 | F | A, S | GGGGATGGAATTGCACGTGTTTATGG | This study |
| *atp1* | CRATP1R1 | R | A, S | GCACCGGCTTCCGAKAGAATCTTAACC | This study |
| *atp1* | F328-atp1 | F | S | GTTGATGCGTTRGGAGTACCY | (Wikström and Pryer 2005) |
| *atp1* | F411-atp1 | F | S | GATTATTGCACGTAAATCTGTCCA | (Wikström and Pryer 2005) |
| *atp1* | F83-atp1 | F | A, S | ATGAGGTCGGTCGAGTGRT | (Wikström and Pryer 2005) |
| *atp1* | R348-atp1 | R | S | RGGTACTCCYAACGCATCAAC | (Wikström and Pryer 2005) |
| *atp1* | R725-atp1 | R | A, S | GGATCCGAAGCMGTGGCTGCTAC | (Wikström and Pryer 2005) |
| *nad5* | K | F | A, S | ATATGTCTGAGGATCCGCATAG | (Vangerow et al. 1999) |
| *nad5* | L | R | A, S | ATCTTTGGCCAAGGATCCTACAAA | (Vangerow et al. 1999) |
| *nad5* | KLEX | F | S | ATGACGTCATTCTTCGCGGCAACC | V.Knoop pers. comm. |
| *nad5* | FLIN | F | S | AACCTGCTAAGAGAAGCGAGACTAC | V.Knoop pers. comm. |
| *nad5* | LISEX | R | S | CATATCTTGCTCATCCGACATGGCATG | V.Knoop pers. comm. |
| *nad5, gapCp* | M13F | - | S | GTAAAACGACGGCCAG | Invitrogen manual |
| *nad5, gapCp* | M13R | - | S | CAGGAAACAGCTATGAC | Invitrogen manual |
| *nad5* | LISIN | R | S | GCTGCATGAATCRAAGCRGATACTGG | V.Knoop pers. comm. |
| *nad5* | CRNAD5F1 | F | A, S | TTTCCAGGACGGGAGGGAGTAGGTC | This study |
| *nad5* | CRNAD5F2 | F | S | GCTTATCTAATTTGTAGTCAATCAGGC | This study |
| *nad5* | CRNAD5F3 | F | S | GCAAATGATCACCGGAGTATAGCACAGG | This study |
| *nad5* | CRNAD5R1 | R | A, S | AATAGGCGCATCGTGGCATCGTAAG | This study |
| *nad5* | CRNAD5R2 | R | S | GCTTTTCATATCGTCTTCTGCCCACTG | This study |
| *nad5* | CRNAD5R3 | R | S | GTCTCATGTCCCTCAAGTCGCACTTTGG | This study |
| *gapCp* | CRGAPVITR1 | R | A, S | GTCRTACCAAGCRATSAGCTTTGT | This study |
| *gapCp* | ESGAPCP11R1 | R | A, S | GTATCCCCAYTCRTTGTCRTACC | (Schuettpelz et al. 2008) |
| *gapCp* | ESGAPCP8F1 | F | A, S | ATYCCAAGYTCAACTGGTGCTGC | (Schuettpelz et al. 2008) |