**Table S1.** Details of the PCR primers used to amplify and sequence junctions of the inverted repeats and the *ndh* gene sequences in the *Strumaria truncata* plastome assembly. Primers for this study were designed with the Primer3 plugin in Geneious v11.1.5. PCR primers are highlighted in bold, all other primers used as internal sequencing primers.

|  |  |  |  |
| --- | --- | --- | --- |
| **Application** | **Primer** | **Sequence** | **Source** |
| Strumaria SSC/IRa | **ndhI\_470F** | **CTTTGACCAATGTACCTTGC** | This study |
| ndhI\_rps15\_855F | AAATTCATGATAAGAATTCC | This study |
| ndhI\_rps15\_1250R | TTAGGAACATCAAGGTACAC | This study |
| ndhI\_rps15\_1387F | CTTAATCTTGGAGTAAACAG | This study |
| ndhI\_rps15\_1500R | TGATGAGTTAAGCTAGATAG | This study |
| ndhI\_rps15\_1723F | ATTATTCGATCCATATCCTG | This study |
| ndhI\_rps15\_2334F | TCAGTCTAAGAACACCATGC | This study |
| Strumaria SSC/IRb | **rpl32\_120F** | **GGTAGAAACTGACTTTGCTAA** | This study |
| rps15\_rpl32 | AATTGAATAAGTTCATAGTG | This study |
| Strumaria SSC/IRa & IRb | ndhI\_rps15\_1983R | ATTGTTATATGATCTATTCG | This study |
| rps15\_95R | CRGAGACTYACTTCACATTTGG | This study |
| **ycf1\_end** | **TTTTGAACGAGGAAAAGCAT** | This study |
| Strumaria ndh1 | **ccsA\_F** | **ACAAATCAAAGTTTGCAAGGTA** | This study |
| **psaC\_R** | **TAGGATGTACTCAATGTGTACG** | This study |
| ndhD\_F | ATCCATAGAACATCTGACGT | This study |
| ndhD\_R | TTACTGACAGGATTTATCAC | This study |
| Strumaria ndh2 | **ndhJ\_F** | **ATGAAATGACAGCAATGGAGTC** | This study |
| **ndhC\_R** | **CCGAATCCGCTATTACATGTTT** | This study |
| Strumaria ndh3 | **psaC\_2F** | **CAATAAGATAGACCCATGCTGC** | This study |
| **rps15\_ndhI\_R** | **ACTTCTTCCCAACTTGTTTCAC** | This study |
| ndhI\_R | GAATTTGATAAATGTATTGC | This study |
| psaC\_ndhI\_F | GTTAGTATTTGTAGTTTCCG | This study |
| LSC/IRa | **rpl2\_F** | **CAGAGGGGCTATAATTGGAGAT** | This study |
| **psbA\_R2** | **CGTCCTTGGATTGCTGTTG** | This study |
| psbA\_R1 | CCTTGGTATGGAAGTAATGC | This study |
| rpl2-psbA-F3 | GGTAARCGYCCYGTAGTAAGAGG | Wang et al. [(2008)](https://paperpile.com/c/vpeL2L/4pPy/?noauthor=1) |
| LSC/IRb | **rps3-F1** | **ATAWATTCYGCAAGAATRTTAGG** | Wang et al. (2008) |
| **rps3-rpl2-R1** | **AATGGGAAATGCCCTACCTTTG** | Wang et al. (2008) |
| rps3-F2 | AGTCKGAAACCRAGTGGATTT | Wang et al. (2008) |
| rps3-rpl2-R2 | GTAGTAAGAGGRGTRGTTATGAACCC | Wang et al. (2008) |
| LSC/IRb for Nerine and Strumaria | **rps3-F1\_G** | **ATAWATTCYGCAAGAATRTTGGG** | Modified fromWang et al. (2008) |
| SSC/IRa & IRb | **trnN** | **CTCTACCACTGAGCTACTGAG** | This study |
| cp211R\_Mod | ACCAAGTTCAACGTTAGCCAGA | Modified from Stoll et al. [(2017)](https://paperpile.com/c/vpeL2L/N1Uz/?noauthor=1) |
| SSC/IRa | **cp262\_Mod** | **TTTGTATGACCAYCGAGAAACC** | Modified fromStoll et al. (2017) |
| ycf1\_F | GCGATTCCATCGTTTATAATCG | This study |
| SSC/IRb | **ndhF\_1318F** | **GGATTAACCGCATTTTATATGTTTC** | Terry et al. [(1997)](https://paperpile.com/c/vpeL2L/eS6E/?noauthor=1) |
| ndhF\_end | GGTCATATAATCGTGGTTAC | This study |
| SSC/IRa poeticus type | **ycf1\_888** | **ATACGACATTGATTGACTCTAT** | This study |
| ycf1\_211 | TGGTCGATTCGTGGATAATC | This study |
| SSC/IRb poeticus type | **Pycf1\_872** | **GCGTGGTAATTTATACTGATAA** | This study |
| Pycf1\_192 | AGATTCTATTTCCTTTCTGTCTGA | This study |

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