Supplemental Information

**Table S1.** Molecular identification results of *Ulva prolifera*.

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| **Gene name** | **Gene sequence** | **Species identification results based on sequence alignment in the NCBI database** |
| ITS | TGGAAGCCTCACCTGAAACTCAGGTCGAATGAATGGATTGGTATCCTTTCGGGCCCACAGCACGCGACACCGAGCCACCGCCTAGAAGTAGCGAGCTACCTACCTAGTCGGGGCCACGAATGGGCCGCGCACGAGCCTCTGCATTTCAGCCGGCCCGGGCGCCGAGGCGTCCGGGGGGGCCAGGTCCACGCGGGGGTGCGTGAGGGGGTATTCCGACGCTGAGGCAGATGTGGTCTCCTCCGAAGAGTCGACCGGCAATGTGCGTTCAAAGATTCGATGACTCACGGAATTCTGCAATTCACACTACGTATCGCATTTCGCTGCGTTCTTCATCGTTGCGAGAGCCAAGATATCCGTTGTTGAGAGTTGTCTCAGTTACTATCGCAGGGGTGTCCCCGTGCGAAGCTGCTTCAGGGCAGAGGGTTCAATGGGTTAGGGCTCCGGCCCGGCGCGGTCGCCCCCCGAGGGGAGCTCACGCGCCGGCGGATCCTGTAAACGGCGGGCCCTCGCCCCCCGAGGGGAGCGAGCGCC | LPP |
| 5S | TGTTGGGCAGGATTAGTACTGGGCTGAGTGATCTCCTGGGAATCCCCTGTGCTGTATCGCCAACAAACCCCTTTTGGGGCTGCCTTACCCTCTGCATCTGTGTATCGCGGCCGCGTACGAGCCTGTACGCCTGCGCGCGCTTCGAGCCGCACATACACAAGCAGCCGTCGGCGCTGTGCCCAGGTCTCCAGTGCCCCCCCGCGCCCGGCCCGCACGCTCACCTCTCTGTCCTGTCTCTGCTCGCATCACGTCTCCGTCCCACTCGCCGCGGCTCCTTACCGTCGGCGGCCAGGCCCTCGCCTGCCTCCAATCACTGCCAGACCATTCCCCCGCAATGCCCCTTCGTCCGGGCGCGCTCATAGCCTCGACTTCCGCTGCATCTGGCGTGATACGGTCATACCACCAGAAAAAAACGTAT | *Ulva prolifera* |

**Note:** The full name of the ITS gene is Internal Transcribed Spacer.