Table S3. Algae identification using different primer sets.

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|  | Original identification | Alternative identification |
| V8-V9 |  |  |
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| denovo0 |
| denovo1 |
| denovo2 |
| denovo3 |
| denovo4 |
| denovo5 |

 | *Pseudopediastrum integrum**Tetradesmus obliquus**Chlamydomonadaceae* sp.*Desmodesmus* sp.*Chlamydomonad* sp.*Chlorella* sp. | *Pseudopediastrum* sp. KNUA039*Acutodesmus* sp. KNUA038, *Scenedesmus* *obliquus* KNUA040*Chlamydomonas* sp. KNUA040*Desmodesmus* sp. KNUA024*Chlamydomonad* sp. KNUA023*Micractinium* sp. KNUA034, *Micractinium* sp. KNUA029, *Micractinium* sp. KNUA036, *Chlorella* sp. KNUA027 |
| V4 (565F-981R) |  |  |
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| denovo0 |
| denovo1 |
| denovo2 |
| denovo3 |
| denovo4 |
| denovo5 |

 | *Pseudopediastrum* sp.*Chlamydomonas* sp.*Desmodesmus subspicatus**Chlamydomonad* sp.*Chlorella* sp.Uncultured eukaryote | *Pseudopediastrum* sp. KNUA039*Chlamydomonas* sp. KNUA040*Scenedesmus* sp.*Chlamydomonad* sp. KNUA023*Micractinium* sp.*Scenedesmus* sp. *Chlorella* sp. |
| V4 (512F-978R) |  |  |  |
| denovo0 | *Pseudopediastrum* sp. | *Pseudopediastrum* sp. KNUA039 |
| denovo1 | *Chlamydomonas* sp. | *Chlamydomonas* sp. KNUA040 |
| denovo2 | *Desmodesmus abundans* | *Desmodesmus abundans* KNUA024 |
| denovo3 | *Chlamydomonad* sp. | *Chlamydomonad* sp. KNUA023 |
| denovo4 | *Chlorella vulgaris* | *Chlorella vulgaris* KNUA027 |
| denovo5 | *Chlorococcum* sp. | *Pseudopediastrum* sp. KNUA039, *Scenedesmus* sp. |