

Supplementary Table S4. ALDH12 amino acid sequences.

| Species | NCBI accession number | Abbreviation | Length, a.a. |
|----------------------------------|-----------------------|--------------|-----------------|
| <i>Arabidopsis thaliana</i> | NP_568955.1 | AtALDH12 | 556 |
| <i>Skeletonema marinoi</i> | ANG60897.1 | SmALDH12 | 544 |
| <i>Thalassiosira pseudonana</i> | XP 002295441.1 | TpALDH12 | 537 |
| <i>Fragilaria crotonensis</i> | KAI2494282.1 | FcALDH12A | 553 |
| | KAI2491558.1 | FcALDH12B | 586 |
| <i>Nitzschia inconspicua</i> | KAG7363017.1 | NiALDH12A | 564 |
| | KAG7341873.1 | NiALDH12B | 563 |
| <i>Phaeodactylum tricornutum</i> | XP 002177243.1 | PtALDH12 | 551 |
| <i>Chaetoceros tenuissimus</i> | GFH52268.1 | CtALDH12 | 552 |
| <i>Ulnaria acus</i> | OR677820 | UaALDH12 | 560 |