

**Table S2.** Average nucleotide identity (ANI) and digital DNA-DNA hybridization (dDDH) values among strains D3-12<sup>T</sup> and G2-2<sup>T</sup> and their closely related taxa of the family *Roseobacteraceae*

Taxa: 1, strain D3-12<sup>T</sup> (CP104793); 2, strain G2-2<sup>T</sup> (CP170201–3); 3, *Rhodalgimonas zhirmunskyi* 10Alg 79<sup>T</sup> (JANFFA000000000); 4, *Ponticoccus litoralis* KCCM 90028<sup>T</sup> (JBDNCH000000000); 5, *Aquicoccus porphyridii* L1 8-17<sup>T</sup> (VINQ000000000); 6, *Marimonas lutisalis* GH1-19<sup>T</sup> (SKCI000000000); 7, *Marimonas arenosa* KCTC 52189<sup>T</sup> (JANHAX000000000); 8, *Cognatishimia maritima* DSM 28223<sup>T</sup> (FQWM000000000)

|                |   | ANI value (%) |      |      |      |      |      |      |      |
|----------------|---|---------------|------|------|------|------|------|------|------|
|                |   | 1             | 2    | 3    | 4    | 5    | 6    | 7    | 8    |
| dDDH value (%) | 1 | –             | 74.5 | 74.7 | 71.7 | 74.8 | 75.5 | 75.4 | 70.7 |
|                | 2 | 18.7          | –    | 74.5 | 71.4 | 75.0 | 75.4 | 75.4 | 70.0 |
|                | 3 | 19.5          | 19.0 | –    | 72.8 | 75.6 | 76.4 | 75.7 | 70.6 |
|                | 4 | 19.0          | 19.4 | 19.8 | –    | 73.0 | 73.7 | 73.0 | 70.5 |
|                | 5 | 19.0          | 19.1 | 19.8 | 19.3 | –    | 79.3 | 76.5 | 70.4 |
|                | 6 | 19.8          | 19.1 | 20.3 | 19.5 | 21.8 | –    | 78.2 | 70.9 |
|                | 7 | 19.6          | 19.2 | 19.4 | 19.4 | 20.2 | 21.6 | –    | 70.4 |
|                | 8 | 19.5          | 21.0 | 19.7 | 20.3 | 20.5 | 19.5 | 19.4 | –    |