

S1 Table. DNA–DNA relatedness between strain JXJ CY 19^T and closely related members of the genus *Modestobacter*. A, JXJ CY 19^T; B, *M. marinus* CGMCC 4.5581^T; C, *M. roseus* KLBMP 1279^T.

| The two DNAs for DNA-DNA hybridization | DNA as probe | DNA immobilized | Values of four replicates (%) | | | | Average (%) | The result of DNA-DNA hybridization (%) |
|--|--------------|-----------------|-------------------------------|-------|-------|-------|-------------|---|
| | | | 1 | 2 | 3 | 4 | | |
| A and B | A | B | 55.36 | 53.51 | 51.12 | 54.19 | 53.54±1.79 | 50.81±0.84 |
| | B | A | 45.71 | 47.31 | 49.33 | 49.92 | 48.07±1.93 | |
| A and C | A | C | 40.22 | 46.63 | 43.74 | 48.57 | 44.79±3.64 | 44.07±1.66 |
| | C | A | 44.87 | 43.92 | 41.73 | 42.83 | 43.34±1.36 | |