Table S10: Bacterial strains used for benchmarking the influence of cell fixation and for HCR-FISH optimization. \*RT: room temperature (20-25°C) \*\*SY medium: 40 g sea salts, 1 g yeast extract / L \*\*\*LB medium: 5 g yeast extract, 10 g tryptone, 5 g sodium chloride / L \*\*\*\*Micrococcus sp. KT16 was grown in SY medium for the fixation experiment and in LB medium for the HCR-FISH optimization by microscopy. \*\*\*\*\*BD, cat 234000

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Strain | Family | GC-content (mol%) | Reference | Genome Acc. No. NCBI | Growth conditions |
| *Gramella forsetii* KT0803 | *Flavobacteriaceae* | 36.6 | [Bauer *et al.* (2006](#_ENREF_2)) | CU207366 | RT\*, SY medium\*\* |
| *Maribacter forsetii* KT02ds18-6 | *Flavobacteriaceae* | 34.2-34.4 | [Barbeyron *et al.* (2008](#_ENREF_1)) | NZ\_JQLH01000000 | RT, SY medium |
| *Escherichia coli* BL21 (DE3) | *Enterobacteriaceae* | 50.6 | Sigma-Aldrich, CMC0014 | CP001509 | 37°C, LB medium\*\*\* |
| *Micrococcus* sp. KT16 | *Micrococcaceae* | 73.0 | IMG GOLD ID: Ga0256418 | ASM331501v1 | RT, SY medium/LB medium\*\*\*\* |
| *Pseudomonas putida* F1 | *Pseudomonadaceae* | 62.2  | [Finette *et al.* (1984](#_ENREF_3)) | NC\_002947 | 30°C, nutrient broth\*\*\*\*\* |
| *Shewanella oneidensis* MR-1 | *Shewanellaceae* | 46.0 | [Venkateswaran *et al.* (1999](#_ENREF_4)) | NC\_004347 | 30°C, LB medium |

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