**Table S1**. Genome size and genes encoding proteins involved in signal transduction in the myxobacteria

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Genome size1** | **Genes1** | **Proteins1** | **OC2****(/Mb)** | **STPK2 (/Mb)** | **TCS3****(/Mb)** | **ECF2 (/Mb)** | **Fruiting bodies** | **Reference** |
| **Family *Myxococcaceae*7(suborder *Cystobacterineae*)** |
| *Corallococcus coralloides* DSM 2259 | 10.1 | 8054 | 7840 | 412 (40.8) | 106**4** (10.5) | 306 (7.5) | 44 (1.1) | YES | Huntley et al., 2012 |
| *Myxococcus fulvus* HW-1 | 9.0 | 7202 | 6912 | 327 (36.3) | 106**4** (11.8) | 288 (7.9) | 36 (1.0) | YES | Li et al., 2011 |
| *Myxococcus stipitatus* DSM 14675 | 10.4 | 8053 | 7842 | 420 (40.4) | 113**4** (10.9) | 285**2** (7.1) | 57 (1.4) | YES | Huntley et al., 2013 |
| *Myxococcus xanthus* DK 1622 | 9.1 | 7248 | 7146 | 315 (34.6) | 100 (11.0) | 282 (8.1) | 41 (1.2) | YES | Goldman et al., 2006 |
| **Family *Cystobacteraceae*8 (suborder *Cystobacterineae*)** |
| *Stigmatella aurantiaca* DW4/3-1 | 10.3 | 8213 | 8112 | 488 (47.4) | 209**4** (20.3) | 338 (7.1) | 32 (0.7) | YES | Huntley et al., 2011 |
| *Anaeromyxobacter* sp. Fw109-5 | 5.3 | 4551 | 4484 | 152 (28.7) | 20**4** (3.8) | 207 (7.2) | 20 (0.7) | NO | Hwang et al., 2015 |
| *Anaeromyxobacter dehalogenans* 2CP-C | 5.1 | 4501 | 4411 | 159 (31.2) | 18**4** (3.5) | 188 (6) | 18 (0.6) | NO | Sanford et al., 2002; Thomas et al., 2008 |
| **Family *Polyangiaceae*9 (suborder *Sorangiineae*)** |
| *Sorangium cellulosum* So ce56 | 13.0 | 9524 | 9326 | 633 (48.7) | 317**4** (24.4) | 273 (5.6) | 86 (1.8) | YES | Schneiker et al., 2007 |
| *Sorangium cellulosum* So0157 | 14.8 | 10808 | 10515 | 613 (41.4) | 508**5** (34.3) | 284**2** (6.9) | 95 (2.3) | YES | Han et al., 2013 |
| **Family *Haliangiceae*10(suborder *Nannocystineae*)** |
| *Haliangium ochraceum* DSM 14365 | 9.4 | 6823 | 6636 | 441 (46.9) | 229**4** (24.4) | 191 (4.1) | 39 (0.8) | YES | Ivanova et al., 2010 |

Data were obtained from: 1, NCBI data base (<http://www.ncbi.nlm.nih.gov/genome/browse/>); 2, MiST 2.2 (<http://mistdb.com/>); 3, Whitworth, 2015; 4, Muñoz et al., 2012; 5, Han et al., 2013; 6, Pérez et al., 2008; 7, Garcia and Müller, 2014b; 8, Knupp Dos Santos, 2014; 9, Garcia and Müller, 2014c; 10, Garcia and Müller, 2014a.

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