

Table S2. List of complete genomes of Deltaproteobacteria, Gammaproteobacteria, Betaproteobacteria and Fibrobacteres carrying homologues of the 14 candidates genes coding for the gliding machinery in *M. xanthus*. For each genome, the accession number in the nucleic ref_seq and in the GenBank databases, the size (in megabases) and the release date are provided.

Genome	Phylum	Size	GenBank	Ref_Seq	Released
<i>Anaeromyxobacter dehalogenans</i> 2CP-1	Deltaproteobacteria	5.02	CP001359.1	NC_011891.1	01/12/2009
<i>Anaeromyxobacter dehalogenans</i> 2CP-C	Deltaproteobacteria	5	CP000251.1	NC_007760.1	01/27/2006
<i>Anaeromyxobacter</i> sp. Fw 109-5	Deltaproteobacteria	5.27	CP000769.1	NC_009675.1	07/17/2007
<i>Anaeromyxobacter</i> sp. K	Deltaproteobacteria	5.06	CP001131.1	NC_011145.1	08/15/2008
<i>Bdellovibrio bacteriovorus</i> HD100	Deltaproteobacteria	3.8	BX842601.2	NC_005363.1	01/31/2004
<i>Geobacter</i> sp. M21	Deltaproteobacteria	4.74	CP001661.1	NC_012918.1	06/20/2008
<i>Geobacter uraniireducens</i> Rf4	Deltaproteobacteria	5.13	CP000698.1	NC_009483.1	05/11/2007
<i>Haliangium ochraceum</i> DSM 14365	Deltaproteobacteria	9.4	CP001804.1	NC_013440.1	04/21/2009
<i>Myxococcus xanthus</i> DK 1622	Deltaproteobacteria	9.13	CP000113.1	NC_008095.1	06/07/2006
<i>Sorangium cellulosum</i> Soce56	Deltaproteobacteria	13.03	AM746676.1	NC_010162.1	11/27/2007
<i>Stigmatella aurantiaca</i> DW4/3-1	Deltaproteobacteria	10	CP002271.1	NC_014623.1	10/21/2010
<i>Fibrobacter succinogenes</i> S85	Fibrobacteres	3.8	CP002158	-	08/06/2010
<i>Methylibium petroleiphilum</i> PM1	Betaproteobacteria	4.64	CP000555.1	NC_008825.1	01/29/2007
<i>Cellvibrio japonicus</i> Ueda107	Gammaproteobacteria	4.57	CP000934.1	NC_010995.1	06/19/2008
<i>Hahella chejuensis</i> KCTC 2396	Gammaproteobacteria	7.2	CP000155.1	NC_007645.1	12/14/2005
<i>Marinobacter aquaeolei</i> VT8	Gammaproteobacteria	4.77	CP000514.1	NC_008740.1	12/28/2006
<i>Saccharophagus degradans</i> 2-40	Gammaproteobacteria	5.05	CP000282.1	NC_007912.1	03/17/2006
<i>Shewanella frigidimarina</i> NCIMB 400	Gammaproteobacteria	4.84	CP000447.1	NC_008345.1	09/14/2006
<i>Teredinibacter turnerae</i> T7901	Gammaproteobacteria	5.2	CP001614.2	NC_012997.1	05/18/2009
<i>Thioalkalivibrio</i> sp. HL-EbGR7	Gammaproteobacteria	3.46	CP001339.1	NC_011901.1	01/13/2009