

**S1 Table. List of *BcGR* structural homologs and analysis of their oligomeric state**

Protein	PDB ID	Sequence Identity (%)	Oligomeric state <sup>1</sup>	Reference
Murl from <i>M. smegmatis</i>	5JWV	41	Dimer, type 1	N/A <sup>2</sup>
Murl from <i>M. tuberculosis</i>	5HJ7	40	Dimer, type 1	N/A <sup>2</sup>
Murl from <i>E. coli</i>	2JFN	38	Monomer	[13]
RacE from <i>B. subtilis</i>	1ZUW	32%	Dimer, type 2A Dimer, type 6	[16]
RacE1 from <i>B. anthracis</i>	2DWU	32%	Dimer, type 2A Dimer, type 4	[31]
Murl from <i>L. monocytogenes</i>	3HFR	32%	Dimer, type 2B	N/A <sup>2</sup>
Murl from <i>A. pyrophilus</i>	1B73	32%	Dimer, type 5	[12]
RacE2 from <i>B. anthracis</i>	2GZM	31%	Dimer, type 2A	[31]
Murl from <i>E. faecalis</i>	2JFO, 2VVT	31%	Dimer, type 2B	[13,15]
Murl from <i>S. pyogenes</i>	2OHG, 2OHO	31%	Dimer, type 2C	[17]
Murl from <i>C. jejuni</i>	3UHF	31%	Dimer, type 3	N/A <sup>2</sup>
Murl from <i>S. aureus</i>	2JFQ	30%	Dimer, type 2A	[13]
Murl from <i>E. faecium</i>	2JFU	30%	Dimer, type 2C	[13]
Murl from <i>H. pylori</i>	2JFX	30%	Dimer, type 3	[13]
Murl from <i>F. tularensis</i>	3OUT	29%	Dimer, type 3	N/A <sup>2</sup>

<sup>1</sup> Evaluation of oligomeric state based on PISA analysis (Krissinel and Henrick. Inference of macromolecular assemblies from crystalline state. 2007 J Mol Biol. 372, 774-797) of the three-dimensional structures available on the PDB. Dimer types are described in supplementary figure Fig. S2.

<sup>2</sup> there is no publication associated to this entry in the protein data bank.