

Table S2. Sequence information used by evolutionary analysis

Species	Gene name	Locus tag	Protein product	Length (bp)
<i>Myxococcus xanthus</i> DK 1622	<i>groEL2</i>	MXAN_4467	YP_632638.1	1644
	<i>groEL1</i>	MXAN_4895	YP_633052.1	1650
<i>Myxococcus fulvus</i> HW-1	<i>groEL2</i>	LILAB_30470	YP_004669053.1	1641
	<i>groEL1</i>	LILAB_32445	YP_004669448.1	1650
<i>Anaeromyxobacter dehalogenans</i> 2cp-1	<i>groEL2</i>	A2cp1_1565	YP_002491975.1	1644
	<i>groEL1</i>	A2cp1_3735	YP_002494127.1	1644
<i>Anaeromyxobacter</i> sp. fw109-5	<i>groEL2</i>	Anae109_1472	YP_001378663.1	1644
	<i>groEL1</i>	Anae109_3715	YP_001380878.1	1644
<i>Mycobacterium tuberculosis</i> H37Rv	<i>groEL2</i>	Rv0440	NP_214954.1	1623
	<i>groEL1</i>	Rv3417c	NP_217934.1	1620
<i>Mycobacterium smegmatis</i> str. MC ² 155 *	<i>groEL2</i>	MSMEG_0880	YP_885283.1	1626
	<i>groEL1</i>	MSMEG_1583	YP_885962.1	1623
<i>Corynebacterium glutamicum</i> ATCC 13032	<i>groEL1</i>	NCgl0573	NP_599834.1	1617
	<i>groEL2</i>	NCgl2621	NP_601912.1	1647
<i>Synechocystis</i> sp. PCC 6803	<i>groEL1</i>	slr2076	NP_440731.1	1626
	<i>groEL2</i>	sll0416	NP_442170.1	1659
<i>Synechococcus elongatus</i> PCC 7942	<i>groEL2</i>	Synpcc7942_0685	YP_399704.1	1668
	<i>groEL1</i>	Synpcc7942_2313	YP_401330.1	1635
<i>Thermosynechococcus elongatus</i> BP-1	<i>groEL1</i>	tll0185	NP_680976.1	1638
	<i>groEL2</i>	tlr1412	NP_682202.1	1632
<i>Escherichia coli</i> str. K-12 substr. MG1655	<i>groEL</i>	b4143	NP_418567.1	1647

**M. smegmatis* also encodes a third GroEL (MSMEG_1978), it is more distantly related to GroEL1 and GroEL2.