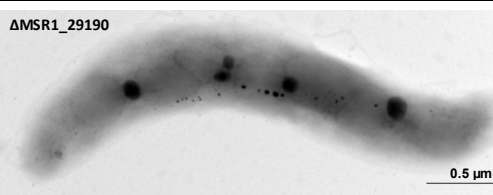
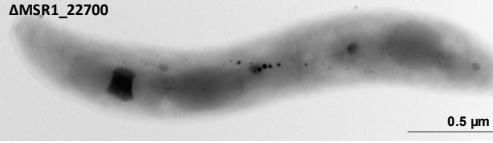

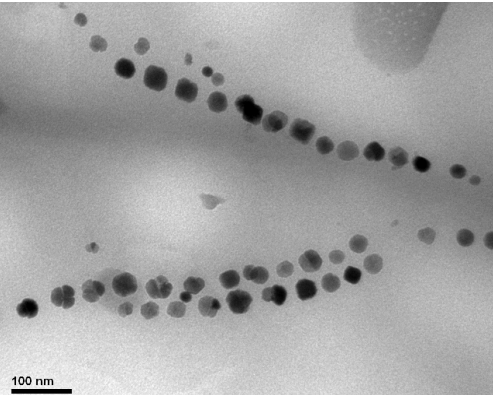


Table S4. Characteristics of Mgryph deletion mutants* in genes for which Tn5-insertion yielded a magnetosome phenotype

Locus-tag MSR1(L)_	Locus-tag MGMSRv2_	Gene name	Magnetic phenotype (Δ) compared to WT	TEM (Δ)
29190	3192	<i>ccmI (cycH)</i>	less magnetosomes	
22700	2273	<i>dsbA</i>	shorter chains	
17040	511	<i>dsbB</i>	smaller and less magnetosomes	
17450-17420	468-471	<i>sir-cysH-cysD-cysC</i>	significantly increased number of defective crystals, higher prevalence of cells with double magnetosome chains	

*grown microaerobically in flask standard medium (FSM, U. Heyen and D. Schüler, Appl Microbiol Biotechnol 61, 2003, doi: 10.1007/s00253-002-1219-x)