

Table S1. Primers used to detect transcription levels of *fur* and *fur-like* genes in WT and $\Delta irrB$.

Gene number	Primer name	Sequence (5' → 3')
MGMSRv2_1721	IrrAF	CGTCTACAACACGCTGAACG
	IrrAR	TAGAAATGGTGGTGCTCGGC
MGMSRv2_3660	IrrCF	CATATCTCGGCCGAGCAA
	IrrCR	GAGGTGTTGGTGTCGAAA
MGMSRv2_3137	FurF	CCTTGAACGCCACGATTTTCG
	FurR	TTCCAACCGATGCCCAACCA
MGMSRv2_0030	rpoCF	ATCCGTATTTCCATCGCCTCCC
	rpoCR	TTGCCGCACAAGCATTCGT

Table S2. IrrB-related genes, and primers used to detect transcription levels.

Gene Number	Gene Name	Protein	Primer name	Primer sequence (5' → 3')
MGMSRv2_1119	<i>hemB</i>	Delta-aminolevulinic acid dehydratase (porphobilinogen synthase)	hemBF	AATGACGAGACGGTGGAA
			hemBR	TTCTTGTCGCCTTTCAGC
MGMSRv2_0427	<i>bhuA</i>	Putative TonB-dependent receptor	bhuAF	TTCGGCGGCTATTCTAT
			bhuAR	TTGATGCGGATGGAGTTG
MGMSRv2_3313	<i>hemE</i>	Uroporphyrinogen decarboxylase	hemEF	AAACCAAGGTGGATGGCGT
			hemER	TTGCCCAAGGCGTTCAA
MGMSRv2_3744	<i>hemA</i>	Glutamyl-tRNA reductase	hemAF	ATTCGCAGTGAAACCCGCA
			hemAR	CGACCACATTGGCATTCA
MGMSRv2_3200	<i>nifU</i>	Putative NifU protein (C-terminal fragment)	nifUF	AGACTGAAAACACCCCCA
			nifUR	GAAGAAATCCATGATCGC
MGMSRv2_1387	<i>nifS</i>	Cysteine desulfurase (nitrogenase metallocluster biosynthesis protein)	nifSF	CGTCGTCGGGCGGGAACC
			nifSR	GATCAGGCACGAGGTGTT
MGMSRv2_1036	<i>sufA</i>	Chaperone involved in Fe-S cluster assembly	sufAF	TCATCCTGACCGAAAGCG
			sufAR	GCAGATCAAG CGAGGTCT
MGMSRv2_0820	<i>nsrR</i>	HTH-type transcriptional regulator	nsrRF	CGAACTCGTCACCATCAATG
			nsrRR	CCAAGGCGAAATCATCCT
MGMSRv2_3702	<i>bfrA</i>	Bacterioferritin subunit 1	bfrAF bfrAR	GCGTTCTCAATAGGCTGCT ATCTTGGGCACATCGGAA
MGMSRv2_3703	<i>bfrB</i>	Bacterioferritin, iron storage, and detoxification protein	bfrBF bfrBR	TGACCGCCATCAATCAGT CGTTCTCAGCATTCCG
MGMSRv2_2122	<i>unknown function</i>	Conserved membrane protein of unknown function	unF unR	AGGAGCACTGGAAAGGCAT TGCGACAAGGTGAAATGG

Table S3. Proteins predicted to interact with IrrB according to STRING 9.1 (see Fig. 5B).

Gene locus	Gene product
MGMSRv2_3702	Bacterioferritin subunit 1
MGMSRv2_3703	Bacterioferritin, iron storage, and detoxification protein
MGMSRv2_3313	Uroporphyrinogen decarboxylase
MGMSRv2_3112	Fused DNA polymerase I
MGMSRv2_2122	Conserved membrane protein of unknown function
MGMSRv2_3149	Member of ferric uptake regulator superfamily (Irr)