

Supplemental information for the manuscript:

Functional insights into the interplay between DNA interaction and metal coordination in ferric uptake regulators.

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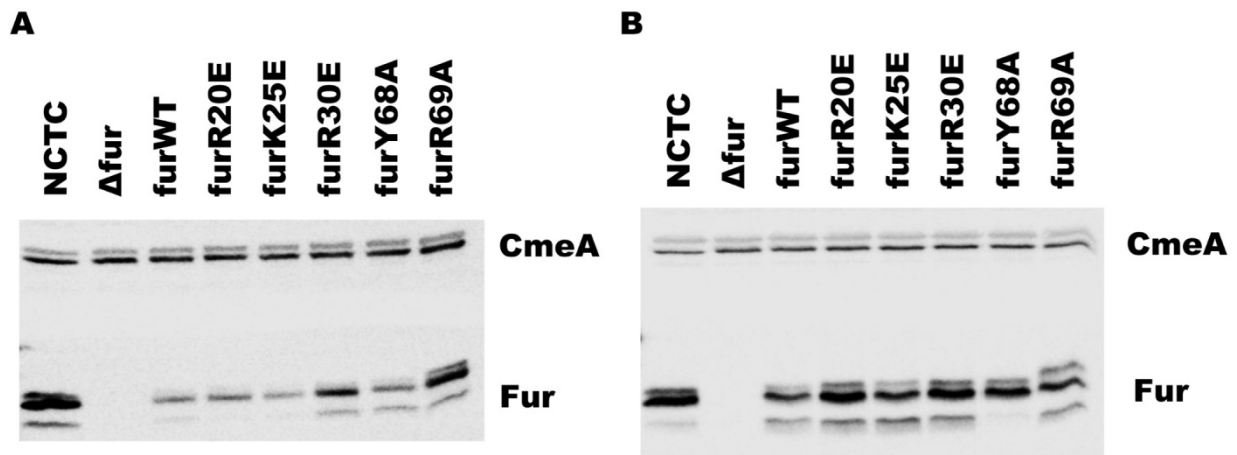


Figure S1. Expression of Fur protein in complemented *Campylobacter jejuni fur* mutants in MEM- α medium under iron poor (A) and iron replete (B) conditions. CmeA was used as loading control.

Table S1. List of primers used for cloning in this study			
Name	Description	Primer sequence	Target Vector
Primer 1	<i>CjFur_Nter_NcoI</i>	AGCAGGATCCATGGGGATGCTGATAGAAAATGTG	pStrep
Primer 2	<i>CjFur_Cter_XhoI</i>	CTATCTCGCTCGAGTTATATTTTTACCTTTGCTTTTTGA	pStrep
Primer 3	<i>CjFur_Nter</i>	GATTAGATGTCTAGCATGCTAGTGAAAAGTTGCAAGA	pRRK
Primer 4	<i>CjFur_Cter</i>	GGGGAAGCTTTCTAGGCTTTTTCTATTCTTTGCTGCTC	pRRK

Table S2. List of primers used for EMSA in this study	
Name	Primer sequence
<i>CjkatA60_For_1588 (Cy5 5')</i>	ACTGAATAATTGCATTTTATTGATAATAAATTTCAAATAAATTTAGTTTTTTTATATTA
<i>CjkatA60_Rev_1589 (Cy5 5')</i>	TAATATAAAAAAACTAAATTTATTTGAAATTTATTATCAATAAAAATGCAATTATTCAGT
<i>Cj1345c_For_1692 (Cy5 5')</i>	GGGAAAAGAGCCAAATTTAGGTGTTATCATCAA
<i>Cj1345c_Rev_1693</i>	TTTAACTCCTTAAATACTCTCTTGTTTTAA

Table S3. List of primers used for site-directed mutagenesis

Mutant	Name	Sequence (5'→3')
Arg14Glu	<i>CjFurR14E-Forward</i>	GTGGAATATGATGTTTTACTTGAGGAATTTAAAAAATATTAAGACAAGGC
	<i>CjFurR14E-Reverse</i>	GCCTTGCTTAATAATTTTTTAAATTCCTCAAGTAAAACATCATATTCCAC
Lys17Glu	<i>CjFurK17E-Forward</i>	GATGTTTTACTTGAGAGATTTAAAGAAATATTAAGACAAGGCGGACTTAAA
	<i>CjFurK17E-Reverse</i>	TTAAGTCCGCCTTGCTTAATATTTCTTAAATCTCTCAAGTAAAACATC
Arg20Glu	<i>CjFurR20E-Forward</i>	CTTGAGAGATTTAAAAAATATTAGAACAAGGCGGACTTAAATATACTAAG
	<i>CjFurR20E-Reverse</i>	CTTAGTATATTTAAGTCCGCCTTGTTCTAATATTTTTTAAATCTCTCAAG
Lys25Glu	<i>CjFurK25E-Forward</i>	AAAATATTAAGACAAGGCGGACTTGAATATACTAAGCAAAGAGAAGTGCTT
	<i>CjFurK25E-Reverse</i>	AAGCACTTCTCTTTGCTTAGTATATTCAGTCCGCCTTGCTTAATATTTT
Lys28Glu	<i>CjFurK28E-Forward</i>	AGACAAGGCGGACTTAAATATACTGAACAAAGAGAAGTGCTTTAAAAACT
	<i>CjFurK28E-Reverse</i>	AGTTTTTAAAAGCACTTCTCTTTGTTTCAGTATATTTAAGTCCGCCTTGCT
Arg30Glu	<i>CjFurR30E-Forward</i>	GGCGGACTTAAATATACTAAGCAAGAAGAAGTGCTTTAAAAACTCTTTAT
	<i>CjFurR30E-Reverse</i>	ATAAAGAGTTTTTAAAAGCACTTCTCTTGCTTAGTATATTTAAGTCCGCC
Tyr68Ala	<i>CjFurY68A-Forward</i>	TTAAATGTAGGAATTGCAACTGTTGCGCGTACTTTAAATTTGCTTGAAG
	<i>CjFurY68A-Reverse</i>	TTCTTCAAGCAAATTTAAAGTACGCGCAACAGTTGCAATTCCTACATTTAA
Arg69Glu	<i>CjFurR69E-Forward</i>	AATGTAGGAATTGCAACTGTTTATGAAACTTTAAATTTACTTGAAGAAGCA
	<i>CjFurR69E-Reverse</i>	TGCTTCTTCAAGTAAATTTAAAGTTTCATAAACAGTTGCAATTCCTACATT
ΔS2	<i>CjFurΔS2-H43A-Forward</i>	AAAACCTTTTATCACAGTGACTGCCTACACACCCGAAAGTTTATATATG
	<i>CjFurΔS2-H43A-Reverse</i>	CATATATAAAGCTTTCCGGTGTGTAGGCAGTATCACTGTGATAAAGAGTTTT
	<i>CjFurΔS2-H102A-Forward</i>	CTTGCCAATAAACCTCACCATGATGCCATGATATGTAATAAATTGCGGAAAA
	<i>CjFurΔS2-H102A-Reverse</i>	TTTCCGCAATTTTACATATCATGGCATCATGGTGAGGTTTATTGGCAAG
ΔS3	<i>CjFurΔS2-H99A-Forward</i>	AAATACGAGCTTGCCAATAAACCTGCCCATGATCATATGATATGTAATAAAT
	<i>CjFurΔS2-H99A-Reverse</i>	ATTTTACATATCATATGATCATGGCAGGTTTATTGGCAAGCTCGTATTT
	<i>CjFurΔS2-H137A-Forward</i>	GAACATGGTTTTAAACTTACAGGGGCTTGATGCAGCTTTATGGTGTGTTGT
	<i>CjFurΔS2-H137A-Reverse</i>	ACAAACACCATAAAGCTGCATCAAGGCCCTGTAAGTTTAAAACCATGTTT

Table S4. List of primers used for RT-qPCR analysis		
Gene	Primer Name	Sequence
<i>cfrA</i>	cfrA_Forward	TCTATCAGTTTGCGCCATTG
	cfrA_Reverse	ATCAACGCCTGGGATATCTG
<i>Cj0948c</i>	Cj0948c_Forward	ACAAGTGGTTCTGTTGCAGT
	Cj0948c_Reverse	TTCATTTCGCCTTTTGTGAGC
<i>Cj1345c</i>	Cj1345c_Forward	GCGTAGGAGAAAATGGAAAAA
	Cj1345c_Reverse	AAAAGCTAAATTTGGAGCCACT
<i>fur</i>	fur_Forward	CATTTCTTTTGGTTCAGCAGGT
	fur_Reverse	AAGCTGCATCAAATGCCCT
<i>katA</i>	katA_Forward	CTTTAGTCCAAGCAATATCGTTCC
	katA_Reverse	CAGCGACATTGTAAGTATTCCTTC
<i>slyD</i>	slyD_Forward	TACGATGAAAATGCCGTTCA
	slyD_Reverse	TTCGCCAAAAAGCTCCATAC