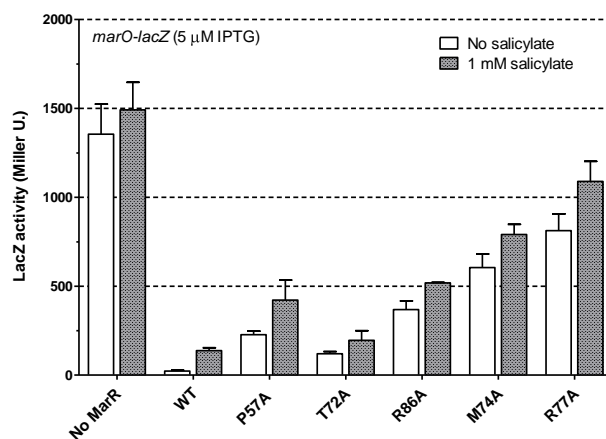
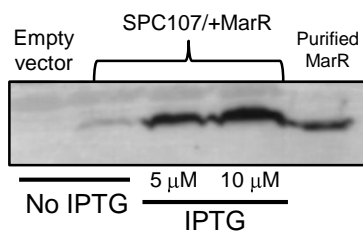


Supplemental Figure S1

A



B



C

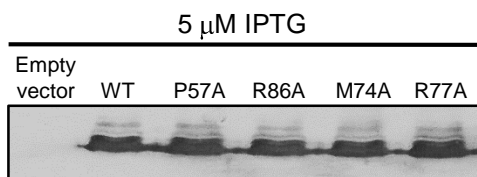


Figure S1. Activity and expression of MarR variants in complemented SPC107. (A) Effect of *marR* mutation on β -galactosidase activity from a *marO-lacZ* fusion in SPC107. SPC107 was transformed with plasmids pACT7Sp and pET28a carrying a *marR* variant. Cells were grown in the presence of 5 μ M IPTG. The data represent the mean \pm the standard deviation for at least three independent experiments. (B) Western blot analysis using lysates of complemented SPC107 grown in the presence of IPTG as indicated. 10 ng of purified MarR was loaded as a positive control. Lysate from cells carrying pACT7Sp and pET28a without insert was used as a negative control (Empty vector). (C) Expression of MarR mutants in SPC107 in the presence of 5 μ M IPTG. In panels B and C, MarR was detected using polyclonal anti-MarR antibodies. Each lane contains 10 μ g of cell lysate.

Supplemental Figure S2

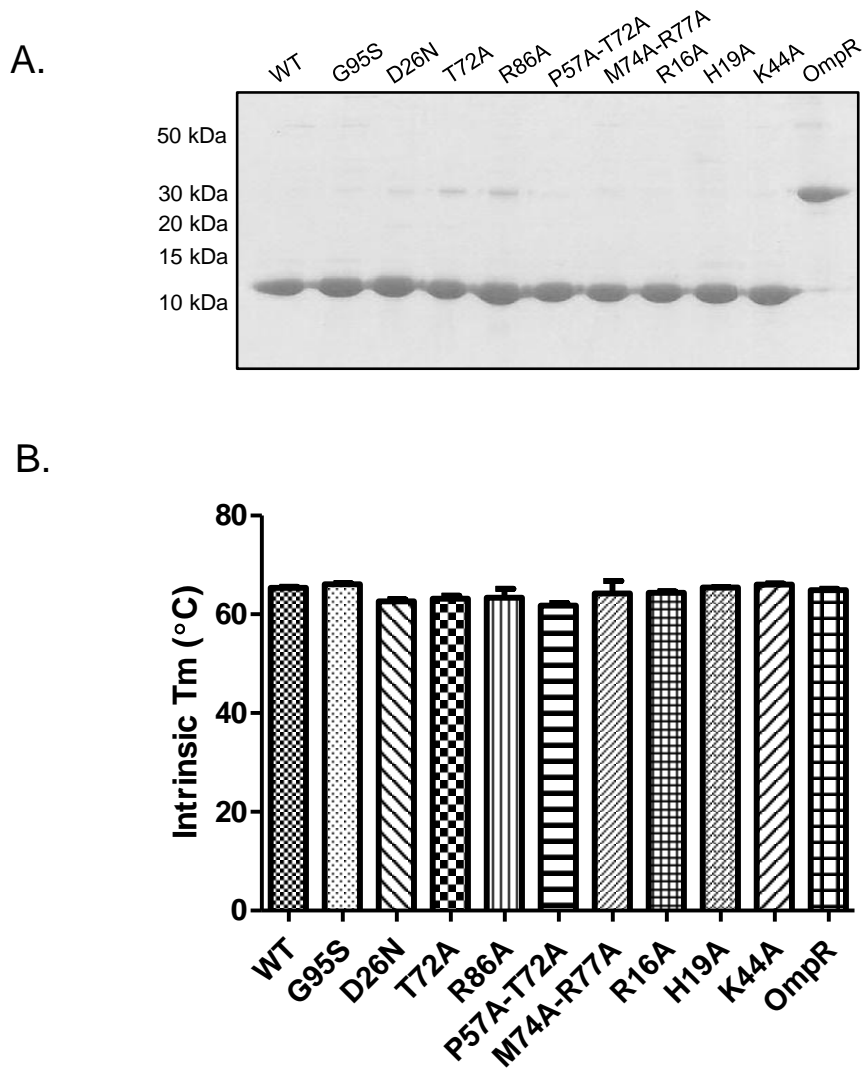


Figure S2. Purity and intrinsic T_m. (A) 15% SDS-PAGE of purified proteins used in this study. 2.5 μ g of protein was loaded in each lane. After electrophoresis, the gel was stained with Coomassie brilliant blue. (B) Intrinsic T_m of the proteins studied. The data represent the mean \pm standard errors of the mean of at least 12 independent experiments.

Supplemental Table S1. Primers used in this study.

Primers	Sequence 5'-3'	Description
marR-ncoI	CCCCATGGCCAAAAGTACCAGCGATCTGTTCAATG	<i>marR</i> external
marR-xhoI	CCCTCGAGTTACGGCAGGACTTTCTTAAGCAAATACTCAAG	primers
P57A-FW	GCGGCGTGTATTACTGCGGTTGAACTGAAAAAG	P57A mutation
P57A-RV	CTTTTTCAGTTCAACCGCAGTAATACACGCCGC	
T72A-FW	GACCTGGGAGCACTGGCCCGTATGCTGGATCGCCTG	T72A mutation
T72A-RV	CAGGCGATCCAGCATAACGGCCAGTGCTCCCAGGTC	
R86A-FW	CTGTAAAGGCTGGGTGGAAGCGTTGCCGAACCCGAATG	R86A mutation
R86A-RV	CATTCGGGTTTCGGCAACGCTTCCACCCAGCCTTTACAG	
R77A-FW	ACCCGTATGCTGGATGCCCTGGTCTGTAAAGGCTGG	R77A mutation
R77A-RV	CCAGCCTTTACAGACCAGGGCATCCAGCATAACGGGT	
M74A-FW	GGAGCACTGACCCGTGCGCTGGATCGCCTGGTC	M74A mutation
M74A-RV	GACCAGGCGATCCAGCGCACGGGTCAGTGCTCC	
M74A-R77A-FW	GGAGCACTGACCCGTGCGCTGGATGCCCTGGTCTGTAAA	M74A-R77A mutation
M74A-R77A-RV	CTTTACAGACCAGGGCATCCAGCGCACGGGTCAGTGCTCC	
R16A-FW	GAAATTATTCCATTGGGTGCCTTAATCCATATGG	R16A mutation
R16A-RV	CCATATGGATTAAGGCACCCAATGGAATAATTTC	
H19A-FW	TTGGGTCGCTTAATCGCTATGGTTAATCAG	H19A mutation
H19A-RV	CTGATTAACCATAGCGATTAAGCGACCCAA	

K44A-FW	GCACAGTTTGCGGTGCTCTGC	K44A
K44A-RV	GCAGAGCACCGCAAACCTGTGC	
OmpR-FW	CAT ATG CAA GAC AAC TAC AAG ATT CTG GTG GTC	<i>ompR</i>
OmpR-RV	CTC GAG TGC TTT AGA GCC GTC CGG TAC AAA G	amplification
