

Supporting Information

Ligand-induced conformational change of *Plasmodium falciparum* AMA1 detected using ^{19}F NMR

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Table SI

Figure S1

Figure S2

Figure S3

Table SI Line widths of 5F-Trp resonances in F367W AMA1 in the presence and absence of RON2L and R1.

	5F-Trp F367W AMA1 (Hz) ^a	5F-Trp F367W AMA1 + RON2L (Hz)	5F-Trp F367W AMA1 + R1 (Hz)
W399	114 ± 4	132	128
W110	110 ± 4	98	150
W315	96 ± 13	89	130
W298	102 ± 5	128	105
W367	250 ± 15	104	93

a. Average line-width ± SEM from 5 independent samples

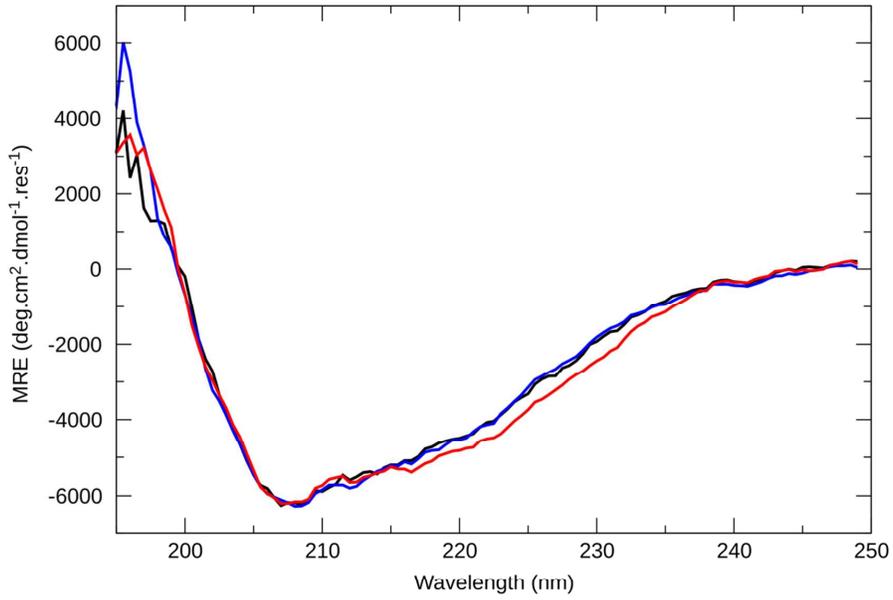


Figure S1. Circular dichroism spectra of 5F-Trp AMA1. Spectra for wild-type (black), F367W (blue) and IS373W (red) were recorded at 25°C and 0.2 mg/ml in 20 mM NaPO₄, 100 mM NaCl, pH 7.4 on an Aviv Model 410SF spectrophotometer.

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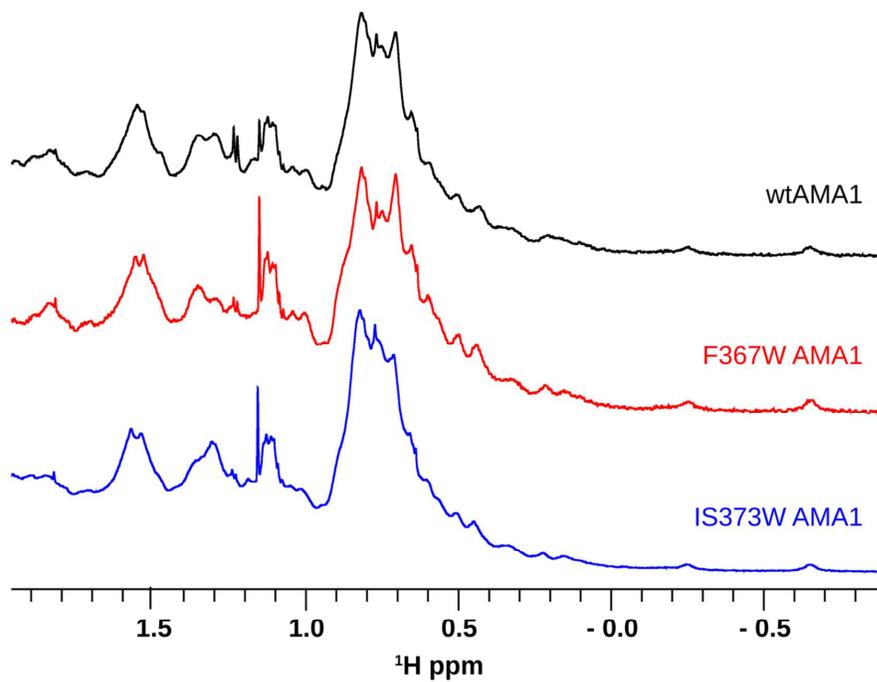


Figure S2. Upfield region of the ^1H NMR spectra of wild-type AMA1 and its F367W and IS373W mutants, showing the well-dispersed methyl signals characteristic of correctly folded AMA1.

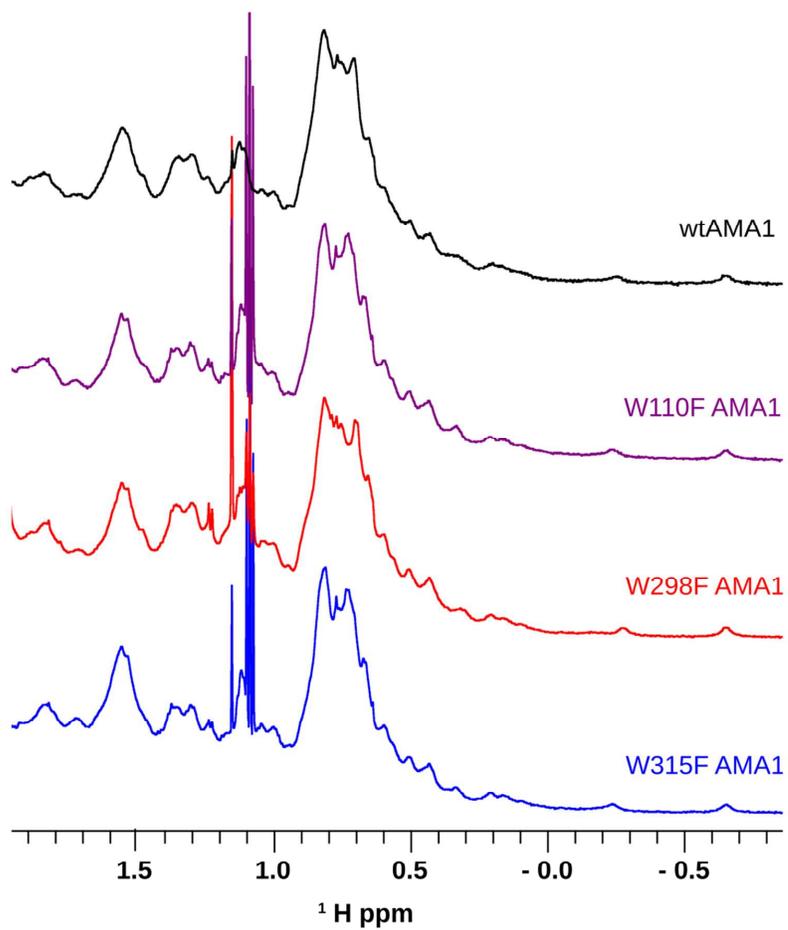


Figure S3. Upfield region of the ^1H NMR spectra of wild-type AMA1 and Trp substitution mutants made to assign the 5F-Trp resonances in native AMA1. These spectra show the well-dispersed methyl signals characteristic of correctly folded AMA1.