Supplemental Data for "INTEIN-MEDIATED CYCLIZATION OF BACTERIAL ACYL CARRIER PROTEIN STABILIZES ITS FOLDED CONFORMATION BUT DOES NOT ABOLISH FUNCTION" by Volkmann *et al*

TABLE S1. Primers used in this study

Primer	*Sequence (5'—3')*
IC-*for*	GGGAGCTCATGGAAGCAGTATTAAATTACAATCAC
IC-*rev*	GACTAATGTATCTCCAGAAAAACAGGAAGAGCATATGCTAGCGCTGTTATGGACAAACAC
ICMUT-r*ev*	GACTAATGTATCTCCAGAAAAAGCGGAAGAGCATATGCTAGCGCTTGCATGGACAAACAC
IN-*for*	GTGTTTGTCCATAACAGCGCTAGCATATGCTCTTCCTGTTTTTCTGGAGATACATTAGTC
INMUT-*for*	GTGTTTGTCCATGCAAGCGCTAGCATATGCTCTTCCGCTTTTTCTGGAGATACATTAGTC
INHIS-*rev*	GGCTGCAGTTAATGGTGATGGTGATGGTGATGACCAGAATCTTCC
ACP-*for*	GGGCTAGCAACATCGAAGAACGCGTAAAGAAAATC
ACP-*rev*	GGGGCTCTTCTACAACCCTGAGCGCTGTTTACG
GSTC-*for*	GGGTGGCCATCATACGTTATATAGCTGACAAGC
GSTC-r*ev*	CGTTCTTCGATGTTGCTAGCAGAACGACCTTCGATCAGATCC
LINL46W-*for*	GGATCTGATCGAAGGTCGTTCTGCTAGCAACATCGAAGAACG
LINL46W-*for2*	CCCATATGTCTGCTAGCAACATCGAAGAACGCG
LINL46W-*rev*	GGGAGCGCTTCATTAACCCTGAGCAGAGTTTACGTAGTCG
LINL46W-*rev2*	CCCTGCAGTCATTAACCCTGAGCAGAGTTTACG
LINF50A-*for*	GAGGCTGACACTGAGATTCCTGATGAAG
LINF50A-*rev*	CTCTTCCAGAGCCATTACTAGCTCTACAGTG

TABLE S2. Bacterial strains and plasmids used in this study

Strain or plasmid	*Relevant features or description*	*Source*
Strains		
BL21(DE3)pLysS	*ompT*	[a]
CY1861	Δ*acpP::cat* pACYC/*acpP*	This study
Plasmids		
$pTI_C(NS)I_NH$	Permuted *Synechocystis ssp.* PCC6803 GyrB split-intein sequence cloned into *Sac*I/*Pst*I sites of pT; contains *Nhe*I and *Sap*I sites between I_C and I_N sequences, respectively, for insertion of target protein sequence for in vivo cyclization	This study
pTCYC-L46W	*Vibrio harvei* ACP L46W mutant cloned into $pTI_C(NS)I_NH$ via *Nhe*I and *Sap*I.	This study
pTCYC-F50A	As pTCYC-L46W, but with F50A mutation in place of L46W	This study
pTPRE-L46W-mut	Cyclization-deficient control construct of pTCYC-L46W, with C1A mutation in I_C and N435A mutation in I_N	This study
pMAL	Expression of *malE* from P_{tac} promoter	New England Biolabs
pMCYC-L46W	Amp^r, L46W cyclization ORF cloned into *Nde*I/*Pst*I sites of pMAL	This study
pMCYC-F50A	As pMCYC-L46W, but with F50A mutation in place of L46W	This study
pMPRE-L46W-mut	Cyclization-deficient control construct of pMCYC-L46W	This study
pMLIN-L46W	Encodes linear equivalent to cycL46W protein, cloned between *Nde*I/*Pst*I sites of pMAL	This study
pMLIN-F50A	As pMLIN-L46W, but with F50A mutation in place of L46W	This study
pGEX-linL46W	Amp^r, expression of GST-linL46W fusion protein from P_{tac} promoter	This study
pGEX-F50A	Amp^r, expression of GST-F50A fusion protein from P_{tac} promoter	(20)

[a] Studier, F.W. and Moffatt, B.A. (1986) *J. Mol. Biol.* **189**, 113-130