Supplementary Table S1. Primers used to generate constructs. The underlined sequences in primers show introduced restriction enzyme sites. Mutation sites are highlighted in red.

Primers used to generate constructs

Construct	Primers	Sequence (5' to 3')
MBP-ACS7-His	MBP-ACS7-His-F	CACATATGTCCATGG<u>GCGGCCGC</u>ATGGGTCTTCCTCTAATGAT
	MBP-ACS7-His-R	CTGCAGG<u>GAATTC</u>GTGATGATGATGATGATGAAACCTCCTTCGTCG
MBP-ACS7^{K285RK366R}-His	ACS7^{K285R}-F	AGTCTCTCCAGGGATCTTGGTCTTCCTGGT
	ACS7^{K285R}-R	ACCAAGATCCCTGGAGAGACTGTAGACGAT
	ACS7^{K366R}-F	GAGTGTTTGAGAGGGAACGCAGGGCTATTT
	ACS7^{K366R}-R	TGCGTTCCCTCTCAAACACTCAATCCCTGC