

Supplementary Materials

Table S1. Primers involved in this study.

Name	Sequence (5'→3')	Primer length	T _m (°C)	Annealing Temperature (°C)
ptox1-forward-F	CTAGCTAGCAGCCGGGCCGCCTACTCGGT	29	73.64	64
ptox1-forward-R	GAGCTGCACCACCTGCAGGTGTGGGTTGGAAGCGGG	36	76.52	
ptox1-reverse-F	CTAGGATCCCTGGTGGTGGTGAAGGGAGG	29	68.09	62
ptox1-reverse-R	CTACACGTGAGCCGGGCCGCCTACTCGGT	29	73.73	
ptox1-intron-F	CCCGCTTCCAACCCACACCTGCAGGTGGTGCAGCTC	36	76.52	63.5
ptox1-intron-R	CGCGGATCCCTGCAGGTGGTGCAGCTCGT	29	74.68	
ptox2-forward-F	cgcGCTAGCACGGTGGCGCGCATCCCCTA	29	76.64	63.5
ptox2-forward-R	CCCTTCCAAAATACACACCTGGCACGCCACCATGGT	36	71.09	
ptox2-reverse-F	CGCGGATCCCTGGCACGCCACCATGGTCT	29	74.75	65
ptox2-reverse-R	CGCCACGTGACGGTGGCGCGCATCCCC	27	77.61	
ptox2-intron-F	ACCATGGTGGCGTGCCAGGTGTGTATTTTGGAAGGG	36	71.09	60
ptox2-intron-R	CTAGGATCCCTTTGTGCGATATGCCGCCCCG	29	66.71	
PTOX1-qRT-F	GATGGACACGGAAGCAGCA	19	58.4	58
PTOX1-qRT-R	GTCCGCGAAGTAAACAGGCT	20	58.07	
PTOX2-qRT-F	GATGGACACGGAAGCAGCA	19	58.4	58
PTOX2-qRT-R	TCTCGAGCACCCAGAACTTCTC	22	58.98	
β-actin-F	ACCCCGTGCTGCTGACTG	18	61.69	58
β-actin-R	ACGTTGAAGGTCTCGAACA	19	53.48	

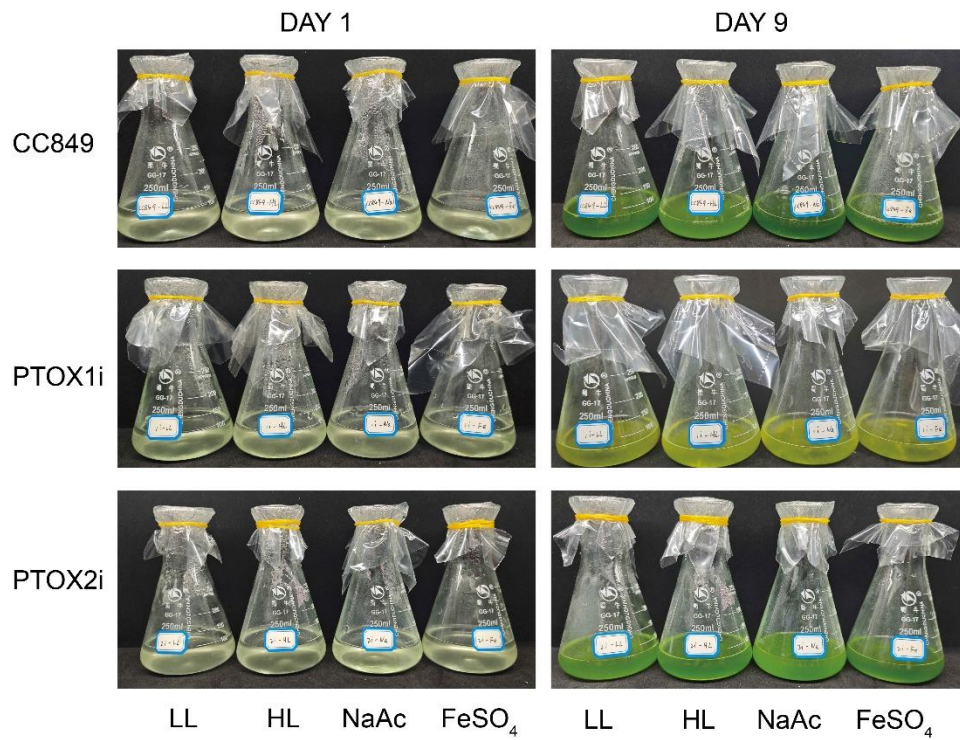


Figure S1. Temporal growth dynamics of wild-type (CC849) and *pttox* mutants (PTOX1i and PTOX2i) under different conditions. At day nine, the PTOX1i group exhibited an early decline in growth, as indicated by the yellow coloration of the culture medium. In contrast, the other groups maintained a deep green color, suggesting continued growth and vitality.