

MUT-4927 rbcL Δ /rbcS1-SSAT pf2 mt+

Cat. No. ALS-04062

Lot. No. (See product label)

Subcategory

Mutants

Description

This Rubisco rbcL knock-out mutant was created by replacing chloroplast rbcL of rbcS1-SSAT pf2 mt+ (MUT-4764) with aadA. Whereas the original SSAT strain expresses functional Rubisco comprised of Chlamydomonas large subunits and Arabidopsis small subunits, this mutant can express only Arabidopsis rbcS. The mutant was created to see whether functional Arabidopsis Rubisco could be expressed in Chlamydomonas. It has been cloned to homoplasmy, and maintained with acetate medium in darkness since its isolation.

Species

Chlamydomonas

Locus

rbcL, RBCS1, PF2

Chromosome

Chloroplast,2,11

Phenotype

Requires acetate; sensitive to light; spectinomycin resistant

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY