

MUT-5039 rbcL-V221C/I265V mt+

Cat. No. ALS-04116

Lot. No. (See product label)

Subcategory

Mutants

Description

Using standard methods of directed mutagenesis and chloroplast transformation of rbcL Δ -MX3312 mt+ (MUT-4696), two substitutions (V221C and I265V) together in the Rubisco large subunit were created. This mutant was created to investigate the molecular basis for the increased CO₂/O₂ specificity of mutant rbcL-Penta/rbcS1-ABSO mt+ (MUT-4848). This strain has been maintained with acetate medium in darkness to prevent selection for secondary mutations that may improve Rubisco function.

Species

Chlamydomonas

Locus

rbcL

Chromosome

Chloroplast

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY