

# MUT-4843 rbcL-C256F/I265V mt+

Cat. No. ALS-03978

Lot. No. (See product label)

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## Subcategory

Mutants

## Description

Directed mutagenesis and chloroplast transformation of rbcL $\Delta$ -25B1 mt+ (MUT-4700) were used to create C256F (TGT-TTC) and I265V (ATT-GTA) substitutions in the Rubisco large subunit, which cause decreases in carboxylation catalytic efficiency and CO<sub>2</sub>/O<sub>2</sub> specificity. This is the original mutant strain. It was created to investigate phylogenetic differences near large-subunit residue Leu-290 (see rbcL-L290F). The 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

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**