

# MUT-4733 rbcS1-D69A mt-

Cat. No. ALS-03870

Lot. No. (See product label)

---

## Subcategory

Mutants

## Description

Directed mutagenesis and nuclear-gene transformation of rbcS $\Delta$ -T60-3 mt- were used to create a D69A substitution (GAC-GCC) in the betaA-betaB loop of the Rubisco small subunit, which causes a decrease in Rubisco carboxylation catalytic efficiency. This strain has been maintained with acetate medium in darkness to prevent selection for secondary mutations that may improve Rubisco function or stability.

## Species

Chlamydomonas

## Locus

RBCS1

## Chromosome

2

---

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**