

# MUT-4670 rbcS1-HB cwd mt-

*Cat. No.* ALS-03807

*Lot. No.* (See product label)

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## Subcategory

Mutants

## Description

This mutant has the Rubisco small subunit replaced with an engineered spinach small subunit that has alpha-helix B replaced with the Chlamydomonas alpha-helix B. It lacks the pyrenoid and the CO<sub>2</sub> concentrating mechanism (CCM), and requires elevated CO<sub>2</sub> for a wild-type level of photosynthetic growth. The strain has been maintained with acetate medium in darkness since its creation.

## Species

Chlamydomonas

## Locus

RBCS1

## Chromosome

2

## Phenotype

Altered CO<sub>2</sub> assimilation

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**