

# MUT-4875 rbcL-R32K mt+

Cat. No. ALS-04010

Lot. No. (See product label)

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## Subcategory

Mutants

## Description

Using standard methods of directed mutagenesis and chloroplast transformation of rbcL $\Delta$ -MX3312 mt+ (MUT-4696), an R32K substitution was created in the Rubisco large subunit. This mutant was created to investigate phylogenetic differences in the Rubisco large subunit that may be responsible for pyrenoid formation in algae. See also rbcL-R32K/A222S/C247S. The R32K substitution does not affect Rubisco catalysis or pyrenoid formation. 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

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**