

# MUT-5020 rbcL-V221C mt+ (G221)

Cat. No. ALS-04097

Lot. No. (See product label)

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## Subcategory

Mutants

## Description

Using standard methods of directed mutagenesis and chloroplast transformation of rbcLΔ-MX3312 mt+ (MUT-4696), a V221C substitution in the Rubisco large subunit was created. This mutant (also named G221) represents one of 15 "groups" of amino acids that differ between Chlamydomonas and land plants. It was created to investigate phylogenetic differences that influence Rubisco catalysis. 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**