

MUT-4881 rbcL-I225L mt+

Cat. No. ALS-04016

Lot. No. (See product label)

Subcategory

Mutants

Description

Using standard methods of directed mutagenesis and chloroplast transformation of rbcL Δ -MX3312 mt+ (MUT-4696), an I225L 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 and rbcL-R32K/V145C/P210S/A222S/I225L/C247S/I309M. 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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