

MUT-4793 rbcL-G54V mt+ (R95-1C revertant of 31-4E)

Cat. No. ALS-03929

Lot. No. (See product label)

Subcategory

Mutants

Description

R95-1C was recovered as a photosynthesis-competent revertant of rbcL-G54D mt+ (31-4E). It results from a pseudoreversion mutation that causes an D54V substitution (GAT-GTT), which results in a G54V substitution (GGT-GTT) in the Rubisco large subunit. The G54V substitution causes a decrease in Rubisco CO₂/O₂ specificity and holoenzyme stability. This strain has been maintained with acetate medium in darkness since its isolation.

Species

Chlamydomonas

Locus

rbcL

Chromosome

Chloroplast

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY