

MUT-4817 rbcL-Q45Ocher mt+ (68-7AN) (non-pf2 progeny used for genetic analysis)

Cat. No. ALS-03953

Lot. No. (See product label)

Subcategory

Mutants

Description

The 68-7AN chloroplast mutant was recovered by screening a collection of acetate-requiring mutants for lack of complementation with a known Rubisco rbcL mutant. It results from an rbcL nonsense mutation that changes the codon for Gln-45 (CAA) to ochre (TAA). It is not known whether this mutant may be suppressed by heteroplasmic informational (tRNA) suppression. This strain was recovered from a cross between the original 68-7AN mt+ and pf2 mt-, and has been maintained with acetate medium in darkness since its isolation.

Species

Chlamydomonas

Locus

rbcL

Chromosome

Chloroplast

Phenotype

Requires acetate; sensitive to light

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY