

# MUT-549 ac141 mt+

Cat. No. ALS-01408

Lot. No. (See product label)

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## Subcategory

Mutants

## Description

The ac141 mutation was UV-induced. It is easy to score in crosses, and mutant clones form small colonies on tetrad plates. This mutant was originally reported to be deficient in cytochrome b559 and quinone [Q] activities and had altered thylakoid membranes, with more single discs than wild type strains. Later reports grouped it with other mutants with pleiotropic deficiencies in PS II polypeptides. A suppressor mutation that restored photosynthetic competence appeared spontaneously in the original ac141 stock and was mapped to linkage group XI. This mutation also suppressed arg1, ac80a, and ac115, but not arg2, ac31a, ac14k, ac28, ac20, or ac21. The stock containing the original suppressor mutation appears to have been lost.

## Species

Chlamydomonas

## Locus

AC141

## Chromosome

3

## Phenotype

Requires acetate

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