

MUT-548 ac115 mt-

Cat. No. ALS-01405

Lot. No. (See product label)

Subcategory

Mutants

Description

The ac115 and ac115a mutations were UV-induced. It is determined that the AC115 gene product specifically promotes translation of the mRNA from the chloroplast psbD gene, encoding the photosystem II D2 protein. In ac115 mutants other proteins of the PS II complex are synthesized but cannot assemble into a stable complex, and are post-translationally degraded. However, there is a problem: the gene sequenced turns out to be on chromosome 8 in the JGI v4 genome sequence, whereas the mutation was mapped to linkage group (chromosome) 1. This conflict has not yet been resolved.

Species

Chlamydomonas

Locus

AC115

Chromosome

1,8

Phenotype

Requires acetate

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