

MUT-3890 RbcS2 2-2aa VII

Cat. No. ALS-03129

Lot. No. (See product label)

Subcategory

Mutants

Description

MUT-3875 through MUT-3893 are a collection of transformants of the T60-3 Rubisco knockout mutant (MUT-4415). For MUT-3890, the plasmid used for the transformation leading to MUT-3875 was modified by mutating processing site 2 in the transit peptide of the precursor of the Rubisco small subunit such that Gln(45)/Met(46) are exchanged by Ile(45)/His(46) and a NdeI restriction site is introduced into the DNA. Transformation resulted in complementation of rbcS-T60-3 to photoautotrophy, but strains grow more slowly. Formation of intermediate sized small subunit is very much enhanced. No mature small subunit was detected by Western blotting, but some immuno cross-reacting proteins of slightly higher molecular masses were detected.

Species

Chlamydomonas

Locus

RBCS2

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