

MUT-112 sr1 mt+

Cat. No. ALS-01272

Lot. No. (See product label)

Subcategory

Mutants

Description

Designated sr-1-H-5; this stock is a derivative of the mutant strain and was designated sr-1a. This is an excellent marker for linkage group IX, easy to score as resistant to 100 micrograms/mL streptomycin. In contrast to some chloroplast-encoded streptomycin-resistant mutants, sr1 is not resistant to 500 micrograms/mL streptomycin. It was shown that this mutation confers resistance directly on the small subunit of the chloroplast ribosome. Based on its map position and analogous mutations in bacteria, we suspect that the SR1 locus may correspond to the PRPS17 gene, encoding protein S17 of the chloroplast ribosome.

Species

Chlamydomonas

Locus

SR1

Chromosome

9

Phenotype

Antibiotic resistant (spectinomycin)

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY