

MUT-5964 ChR2-E90R, Δ ChR1 (E162) [PH227]

Cat. No. ALS-04887

Lot. No. (See product label)

Subcategory

Mutants

Description

This is a ChR1 disruption strain with a point mutation E90R in ChR2, generated with SpCas9 nuclease. Background strain: MUT-125 mt+. Nuclease: SpCas9 nuclease. Target gene: ChR1, Cre14.g611300; ChR2, Cre02.g085257. Target sequence: ChR1 TGTGGCTTCGTTACGCGGAG (exon 5); ChR2 CTATGTGTGCGCTATCGAGG (exon 4). Marker: pAphVII (pPH360), pAphVIII (pPH114). Mutation: E90R exchange in ChR2; insertion of short oligo TTTCGATTGAAGGAAAAGTTACAACGGAGT in ChR1.

Species

Chlamydomonas

Locus

ChR1, Cre14.g611300; ChR2, Cre02.g085257

Chromosome

14, 2

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