

MUT-5708 fancd2 [line #2]

Cat. No. ALS-04698

Lot. No. (See product label)

Subcategory

Mutants

Description

Knock-out of fancd2 (Cre10.g453650) in MUT-1883, resulting in deficiency of Fanconi anaemia (FA) DNA repair. One of three fancd2 lines deposited (MUT-5707, MUT-5708, MUT-5709). Knock-out generated using CRISPR/Cas12a and the 1.8 kb aphVIII antibiotic selection marker to disrupt the gene of interest, resulting in paromomycin resistance (paror). FA deficiency was confirmed by hypersensitivity to the DNA-damaging agent mitomycin C, and the knock-out locus was sequence-verified. No off-target analysis was performed; may contain off-target edits and aphVIII integrations. Up to 10% DMSO may be added to the PCR to help amplify long GC-rich amplicons, in which case lower annealing temperatures by 3-5 °C. Deposited as part of 21 lines containing eight different DNA repair mutant genotypes (MUT-5701 to MUT-5721).

Species

Chlamydomonas

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