

# Immortalized Fancd2 (+/+) Aldh2 (-/-) mouse ear fibroblast

5010 Fancd2 (+/+) Aldh2 (-/-)

## Description

**Organism:** *Mus musculus*

**Tissue:** Ear

**Strain background:** FA-D2 wildtype and FA-Aldh2 KO mouse on a 129S4/SvJaeSor (MGI:3044540) co-isogenic background.

## References

**Epithelial cancer in Fanconi anemia complementation group D2 (Fancd2) knockout mice.** Scott Houghtaling, et al., Genes & Development. 2003

**Fancd2 counteracts the toxic effects of naturally produced aldehydes in mice.** Frederic Langevin, et al., Nature. 2011.

## Growth media

High glucose DMEM (Gibco, 10313-039) supplemented with 10% Fetal Bovine Serum (FBS, Hyclone Laboratories, SH30071.03) and 1% penicillin-streptomycin (Gibco #15140122). Add L-glutamine if it is missing from the DMEM (Gibco, GlutaMAX 35-050-061).

[Access free PDF version](#)

## Quality Control Testing

- A terminal expansion sample was sent October 2021 to IDEXX BioAnalytics (Columbia, MO, USA) and authenticated using the Cell Check 19 Plus Mouse service as well as tested for *Mycoplasma* and interspecies contamination from human, rat, African green monkey and Chinese hamster.

Cell Line	Mycoplasma sp.	mouse	rat	Human	Chinese Hamster	African Green Monkey
5010	-	+	-	-	-	-

Datasheet version: 1/4/2022

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- A Mouse 19 species-specific **STR marker profile** has been established for this cell line and used for comparative analysis with available published profiles to confirm its unique identity. The genetic profile can be used for future comparisons of this cell line.

IDEXX Case #	32729-21-01
Cell Line ID	5010 Fancd2(+/+) Aldh2 (-/-)
MCA-1-1	10, 16
MCA-1-2	13, 19
MCA-2-1	9
MCA-3-2	14
MCA-4-2	19.3
MCA-5-5	17
MCA-6-4	19
MCA-6-7	17
MCA-7-1	27.2
MCA-8-1	16
MCA-9-2	17
MCA-11-2	16, 17
MCA-12-1	17
MCA-13-1	15.2, 17
MCA-15-3	20.3
MCA-17-2	15
MCA-18-3	15, 16
MCA-19-2	13
MCA-X-1	26

To submit a sample for STR profiling go to <https://www.idexxbioanalytics.com/authenticate> to get a guide on Cell Line Authentication and <https://www.idexxbioanalytics.com/cellcheck> to order. Request your sample be compared to “5010 Fancd2 (+/+) Aldh2 (-/-) (IBA# 32729-21-01)”.

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