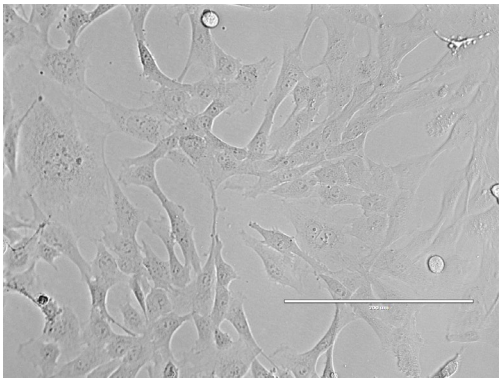
FANCC Immortalized primary FA human fibroblasts

PD331 (*FANCC*$^{-/-}$)

Description

Organism: *Homo sapiens*, human
Tissue: Skin sample donated by FA patient to Oregon Health and Science University.
Synonyms: FANCC



References

Immortalization was achieved using this procedure:

Immortalization of Four New Fanconi Anemia Fibroblast Cell Lines by an Improved Procedure. P.M. Jakobs, et al., Somatic Cell and Molecular Genetics. 1996

[Access free PDF version]

Growth media

Alpha MEM (HyClone, SH30265.01), 15% fetal bovine serum (FBS, Hyclone Laboratories, SH30071.03), and 1% penicillin-streptomycin (Gibco #15140122).

Antibiotic Resistance

The PD331 line carries a puromycin resistance marker residual from complementation assays and not essential to the *FANCC*$^{-/-}$ phenotype. If you would like to maintain the line in puromycin, the recommended dose is 1µg/mL.

Cell Line	Puromycin	G418 (neo)
PD331	+	

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Quality Control Testing

- A terminal expansion sample was sent July 2021 to IDEXX BioAnalytics (Columbia, MO, USA) and authenticated using the Cell Check 16 Plus service as well as tested for *Mycoplasma* and interspecies contamination from mouse, rat, African green monkey and Chinese hamster.

Cell Line	Mycoplasma sp.	mouse	rat	Human	Chinese Hamster	African Green Monkey
PD331	-	-	-	+	-	-

- A Human 16 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 #	**22287-21-01**
	Cell Line ID	**PD331 FANCC**
X, Y	AMEL	X, Y
Chr 5	CSF1PO	10, 11
Chr 13	D13S317	11, 13
Chr 16	D16S539	13
Chr 18	D18S51	12, 17
Chr 21	D21S11	28, 29
Chr 3	D3S1358	16
Chr 5	D5S818	12, 13
Chr 7	D7S820	11
Chr 8	D8S1179	13
Chr 4	FGA	21
Chr 21	Penta_D	13, 14
Chr 15	Penta_E	5, 14
Chr 11	TH01	6, 7
Chr 2	TPOX	8, 10
Chr 12	vWA	16, 19

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 "PD331 FANCC (IBA# 22287-21-01)".

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