

Resource Summary Report

Generated by [NIF](#) on Sep 19, 2026

FRTL-5

RRID:CVCL_0265

Type: Cell Line

Proper Citation

RRID:CVCL_0265

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0265

Proper Citation: RRID:CVCL_0265

Description: Cell line FRTL-5 is a Spontaneously immortalized cell line with a species of origin Rattus norvegicus (Rat)

Sex: Sex unspecified

Defining Citation: [PMID:1694496](#), [PMID:1726925](#), [PMID:1846098](#), [PMID:2545492](#), [PMID:2551628](#), [PMID:2868604](#), [PMID:3475907](#), [PMID:3670314](#), [PMID:6327870](#), [PMID:7836899](#), [PMID:7912172](#), [PMID:8761378](#), [PMID:9709917](#), [PMID:20151827](#), [PMID:21087161](#)

Comments: Anecdotal: Have been flown in space on the ISS in 2005 to study the effect of UVC radiation (PubMed=21087161)., Problematic cell line: Probably misclassified/misidentified. ECACC has discontinued this cell line because it does not display the non-diploid karyotype originally reported therefore its authenticity cannot be assured., Group: Space-flown cell line (cellonaut)., Group: Patented cell line.

Category: Spontaneously immortalized cell line

Organism: Rattus norvegicus (Rat)

Name: FRTL-5

Synonyms: FRTL 5, FRTL5, FRTL-5 Cl 2

Cross References: BTO:BTO_0001875, CLO:CLO_0003396, MCCL:MCC:0000156, CLDB:cl1395, ChEMBL-Cells:ChEMBL3308088, ChEMBL-Targets:ChEMBL613879, CLS:500407, ECACC:91030711, PubChem_Cell_line:CVCL_0265, Wikidata:Q54835180

ID: CVCL_0265

Hierarchy: cvcl_5753

Record Creation Time: 20220427T215853+0000

Record Last Update: 20260913T003116+0000

Ratings and Alerts

No rating or validation information has been found for FRTL-5.

Warning: Discontinued: ATCC; CRL-8305

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Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Liu R, et al. (2024) In vitro assessment of thyroid peroxidase inhibition by chemical exposure: comparison of cell models and detection methods. Archives of toxicology, 98(8), 2631.

Manso J, et al. (2024) First Evidence of Mineralocorticoid Receptor Gene and Protein Expression in Rat and Human Thyroid Tissues and Cell Cultures. International journal of molecular sciences, 25(2).

Kurashige T, et al. (2020) Reevaluation of the Effect of Iodine on Thyroid Cell Survival and Function Using PCCL3 and Nthy-ori 3-1 Cells. Journal of the Endocrine Society, 4(11), bvaa146.

Faria M, et al. (2019) Antagonistic effects of RAC1 and tumor-related RAC1b on NIS expression in thyroid. Journal of molecular endocrinology, 63(4), 309.