

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

LbetaT2

RRID:CVCL_0398

Type: Cell Line

Proper Citation

RRID:CVCL_0398

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0398

Proper Citation: RRID:CVCL_0398

Description: Cell line LbetaT2 is a Transformed cell line with a species of origin Mus musculus (Mouse)

Sex: Female

Defining Citation: [PMID:8770922](#), [PMID:8898243](#), [PMID:11356674](#), [PMID:15541569](#), [PMID:31020055](#)

Comments: Characteristics: Expresses CGA, GnRH-R and the alpha and beta subunits of LH (PubMed=8770922)., Characteristics: Widely used as an in vitro model for the study of gonadotropin gene regulation and GnRH signaling (Millipore=SCC412).

Category: Transformed cell line

Organism: Mus musculus (Mouse)

Name: LbetaT2

Synonyms: L-beta-T2, L beta T2, Lbeta T2, L{beta}T2, Lbetat2, LbT2

Cross References: BTO:BTO_0004467, EFO:EFO_0002070, MCCL:MCC:0000292, Lonza:1263, Millipore:SCC412, TOKU-E:4079, Wikidata:Q54902109

ID: CVCL_0398

Record Creation Time: 20220427T220719+0000

Record Last Update: 20260829T234456+0000

Ratings and Alerts

No rating or validation information has been found for LbetaT2.

No alerts have been found for LbetaT2.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Herdman AK, et al. (2026) Secretogranin II-derived peptide secretoneurin differentially stimulates luteinizing hormone secretion by age and sex in ex vivo murine pituitaries†. *Biology of reproduction*, 115(1), 161.

Jin Y, et al. (2026) Regulation of murine follicle-stimulating hormone β subunit transcription by newly identified enhancers. *Endocrinology*, 167(5).

Lin YF, et al. (2025) Gonadotropin-releasing hormone regulates transcription of the inhibin B co-receptor, TGFBR3L, via early growth response one. *The Journal of biological chemistry*, 301(4), 108405.

Schultz H, et al. (2024) ZEB1 Inhibits LH β Subunit Transcription When Overexpressed, but Is Dispensable for LH Synthesis in Mice. *Endocrinology*, 165(10).

Lin YF, et al. (2022) Steroidogenic Factor 1 Regulates Transcription of the Inhibin B Coreceptor in Pituitary Gonadotrope Cells. *Endocrinology*, 163(11).

Kim T, et al. (2019) SRXN1 Is Necessary for Resolution of GnRH-Induced Oxidative Stress and Induction of Gonadotropin Gene Expression. *Endocrinology*, 160(11), 2543.

Ruf-Zamojski F, et al. (2019) Cytogenetic, Genomic, and Functional Characterization of Pituitary Gonadotrope Cell Lines. *Journal of the Endocrine Society*, 3(5), 902.

Terasaka T, et al. (2019) The RNA-Binding Protein ELAVL1 Regulates GnRH Receptor Expression and the Response to GnRH. *Endocrinology*, 160(8), 1999.

Walker RG, et al. (2017) Structural basis for potency differences between GDF8 and GDF11. *BMC biology*, 15(1), 19.

Terasaka T, et al. (2017) Reactive Oxygen Species Link Gonadotropin-Releasing Hormone Receptor Signaling Cascades in the Gonadotrope. *Frontiers in endocrinology*, 8, 286.