

Resource Summary Report

Generated by [RRID](#) on Sep 9, 2026

[ND7/23](#)

RRID:CVCL_4259

Type: Cell Line

Proper Citation

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Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_4259

Proper Citation: RRID:CVCL_4259

Description: Cell line ND7/23 is a Hybrid cell line with a species of origin Mus musculus (Mouse)

Defining Citation: [PMID:1979443](#), [PMID:17928298](#), [PMID:32636736](#)

Comments: Characteristics: Clone of ND7 which is derived from the fusion of primary neonatal rat dorsal root ganglion neurons with mouse neuroblastoma cell line N18TG2.

Category: Hybrid cell line

Organism: Mus musculus (Mouse)

Name: ND7/23

Synonyms: ND7-23

Cross References: CLO:CLO_0008144, CLDB:cl3680, CCRID:3101ETCSCSP5026, ECACC:92090903, Wikidata:Q54930337

ID: CVCL_4259

Hierarchy: cvcl_vk87

Record Creation Time: 20220427T221336+0000

Record Last Update: 20260905T181911+0000

Ratings and Alerts

No rating or validation information has been found for ND7/23.

No alerts have been found for ND7/23.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Ohnemus S, et al. (2026) Experimentally informed, quantitative photocycle model of the light-gated potassium channel WiChR. *Biophysical journal*, 125(10), 2363.

Zhang S, et al. (2026) A peritumoral microenvironment engaged by Reg-EXTL3 axis fosters nerve-cancer interactions in pancreatic ductal adenocarcinoma. *Neuron*.

Deng YT, et al. (2025) Amphiregulin contributes to neuropathic pain by enhancing glycolysis that stimulates histone lactylation in sensory neurons. *Science signaling*, 18(891), eadr9397.

Zhao M, et al. (2025) Grifolic acid, a FFAR4 agonist, identified as a dual antagonist of voltage-gated sodium and CaV2.2 channels with potent antinociceptive effects. *British journal of pharmacology*.

Li M, et al. (2024) Arbidol, an antiviral drug, identified as a sodium channel blocker with anticonvulsant activity. *British journal of pharmacology*, 181(21), 4311.

Oppermann J, et al. (2024) Robust optogenetic inhibition with red-light-sensitive anion-conducting channelrhodopsins. *eLife*, 12.

Wu YY, et al. (2023) miR-1306-3p directly activates P2X3 receptors in primary sensory neurons to induce visceral pain in rats. *Pain*, 164(7), 1555.

Lyu H, et al. (2023) Clinical and electrophysiological features of SCN8A variants causing episodic or chronic ataxia. *EBioMedicine*, 98, 104855.

Amaye IJ, et al. (2022) Evaluation of potential anticonvulsant fluorinated N-benzamide enamines as T-type Ca²⁺ channel blockers. *Bioorganic & medicinal chemistry*, 65, 116766.

Ling YJ, et al. (2020) Intravenous Administration of Triptonide Attenuates CFA-Induced Pain Hypersensitivity by Inhibiting DRG AKT Signaling Pathway in Mice. *Journal of pain research*, 13, 3195.

Tang D, et al. (2020) Scorpion toxin inhibits the voltage-gated proton channel using a Zn²⁺ -like long-range conformational coupling mechanism. *British journal of*

pharmacology, 177(10), 2351.

Zhang Q, et al. (2019) Regulation of T-type Ca^{2+} channel expression by interleukin-6 in sensory-like ND7/23 cells post-herpes simplex virus (HSV-1) infection. Journal of neurochemistry, 151(2), 238.