

Resource Summary Report

Generated by [NIF](#) on Aug 13, 2026

HT22

RRID:CVCL_0321

Type: Cell Line

Proper Citation

Hysigen Cat# TCM-C821, RRID:CVCL_0321

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0321

Proper Citation: Hysigen Cat# TCM-C821, RRID:CVCL_0321

Description: Cell line HT22 is a Transformed cell line with a species of origin Mus musculus (Mouse)

Defining Citation: [PMID:7953717](#), [PMID:9292733](#), [PMID:19135458](#), [PMID:26227174](#), [PMID:33430126](#)

Comments: Characteristics: Highly sensitive to glutamate and is therefore used to study glutamate-induced toxicity in neuronal cells (Millipore=SCC129).

Category: Transformed cell line

Organism: Mus musculus (Mouse)

Name: HT22

Synonyms: HT-22

Cross References: BTO:BTO_0003037, MCCL:MCC:0000214, ChEMBL-Cells:ChEMBL3307590, ChEMBL-Targets:ChEMBL614316, CLS:305158, Hysigen:TCM-C821, Lonza:248, Millipore:SCC129, PRIDE:PXD001597, PRIDE:PXD023294, PubChem_Cell_line:CVCL_0321, Ubigene:YC-A004, Wikidata:Q54896579

ID: CVCL_0321

Vendor: Hysigen

Catalog Number: TCM-C821

Hierarchy: cvcl_u378

Record Creation Time: 20260408T073728+0000

Record Last Update: 20260809T005537+0000

Ratings and Alerts

No rating or validation information has been found for HT22.

No alerts have been found for HT22.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 1193 mentions in open access literature.

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

Wang N, et al. (2026) Nature-Inspired Surface Modification Strategy Reverses the Autophagic Flux Impairment of Mitochondrial Transplantation for Attenuating Ischemic Strokes. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(26), e18969.

Liu X, et al. (2026) SARS-CoV-2 directly infects the inner ear and causes hearing dysfunction. *Cell reports*, 45(4), 117251.

Peng TT, et al. (2026) Inflammatory Factors Derived From Metabolic Dysfunction-Alcoholic Fatty Liver Disease: Inducers of Anxiety and Spatial Memory Impairment. *Mediators of inflammation*, 2026, 5555342.

Wei Z, et al. (2026) Sleeve gastrectomy improves cognition by enhancing central ERK/CREB/BDNF pathway through increased GIP secretion. *iScience*, 29(7), 116292.

Xue Y, et al. (2026) Terpenoids From Leaves of Diospyros kaki and Their Neuroprotective Effects. *Chemistry & biodiversity*, 23(7), e71443.

Zhang S, et al. (2026) Multi-Component Functionalized Bifidobacterium Longum Hydrogel for Multi-Target Integrated Therapy of Colitis-Associated Anxiety and Depression. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), e76242.

Zhou Y, et al. (2026) Hippocampal Hb?? deficiency induces neuronal apoptosis by promoting the accumulation of AGEs. *European journal of pharmacology*, 1030, 179139.

Song W, et al. (2026) Activation of ACE2 by Hazelnut-Derived Peptide YYLLVR: A Novel Strategy against Hypertension-Induced Cognitive Impairment. *Journal of agricultural and food chemistry*, 74(29), 22889.

Zhao B, et al. (2026) Aspirin alleviates long-term high-fat diet-induced depressive-like behavior in male mice via suppressing arachidonic acid-mediated microglial activation and

neuroinflammation. *Molecular psychiatry*.

Wan Q, et al. (2026) Fluoxetine alleviates vascular cognitive impairment by activating the Nrf2/ARE pathway via Sp1-mediated OTUD1 transcription. *Free radical research*, 60(3), 241.

Ma Z, et al. (2026) An Interpretable, Thermodynamics-Based Deep Learning Framework for Predicting and Optimizing Drug Membrane Permeability. *Journal of medicinal chemistry*, 69(8), 9489.

Hu S, et al. (2026) Anesthetic gas sevoflurane postconditioning alleviates cognitive impairment induced by hemorrhagic shock and resuscitation. *Medical gas research*, 16(3), 211.

Liu P, et al. (2026) Biomimetic Hydrogel System Targeting S100A8 Centered Neuroimmune Crosstalk and Hypoxia Induced Neuronal Injury. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), e76220.

Zhou C, et al. (2026) Discovery and Optimization of Novel Carbazole-Based Ferroptosis Inhibitors. *Chemistry & biodiversity*, 23(6), e71430.

Deng M, et al. (2026) Small proline-rich repeat protein 1A-mediated ephrin-A5 downregulation drives neuropathic pain via brain-derived neurotrophic factor/Tropomyosin receptor kinase B signaling. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 23(4), e00964.

Lu P, et al. (2026) Bromodomain-containing protein 4 knockdown promotes neuronal ferroptosis in a mouse model of subarachnoid hemorrhage. *Neural regeneration research*, 21(2), 715.

Cai Z, et al. (2026) The Cullin3-Ring E3 ubiquitin ligase complex and USP14 regulate spastin-mediated microtubule severing and promotion of neurite outgrowth. *Neural regeneration research*, 21(4), 1641.

Charoensaensuk V, et al. (2026) Lumbrokinase modulates tissue plasminogen activator and alleviates behavioral and cognitive deficits in mice with chronic social defeat stress. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 196, 119024.

Lu Y, et al. (2026) Neuron-glioma synaptic transmission amplified by free 19S proteasome-mediated AMPAR deubiquitination promotes tumor progression. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 23(1), e00847.

Luo S, et al. (2026) Targeting AARS1-dependent lactylation improves neuronal process plasticity and mitigates cognitive deficits in sepsis-associated encephalopathy. *Brain, behavior, and immunity*, 135, 106493.