

Resource Summary Report

Generated by [NIF](#) on Sep 17, 2026

B6.129X1-Htr3a^{tm1Jul/J}

RRID:IMSR_JAX:005251

Type: Organism

Proper Citation

RRID:IMSR_JAX:005251

Organism Information

URL: <https://www.jax.org/strain/005251>

Proper Citation: RRID:IMSR_JAX:005251

Description: Mus musculus with name B6.129X1-Htr3a^{tm1Jul/J} from IMSR.

Species: Mus musculus

Synonyms: B6;129X1-Htr3a/J

Notes: gene symbol note: 5-hydroxytryptamine (serotonin) receptor 3A; mutant stock: Htr3a

Affected Gene: 5-hydroxytryptamine (serotonin) receptor 3A

Genomic Alteration: targeted mutation 1; David Julius

Catalog Number: JAX:005251

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6.129X1-Htr3a^{tm1Jul/J}

Record Creation Time: 20250513T053649+0000

Record Last Update: 20260912T060433+0000

Ratings and Alerts

No rating or validation information has been found for B6.129X1-Htr3a^{tm1Jul/J}.

No alerts have been found for B6.129X1-Htr3a^{tm1Jul/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Yu Y, et al. (2022) 5-HT3A receptors maintain hippocampal LTP in a CB1 and GABAA receptor- dependent manner for spatial memory. British journal of pharmacology, 179(12), 2969.

Ohata K, et al. (2021) Cochlear protection against noise exposure requires serotonin type 3A receptor via the medial olivocochlear system. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 35(5), e21486.

Namkung J, et al. (2018) Inhibition of Serotonin Synthesis Induces Negative Hepatic Lipid Balance. Diabetes & metabolism journal, 42(3), 233.

Ritter KE, et al. (2017) Serotonin Receptor 5-HT3A Affects Development of Bladder Innervation and Urinary Bladder Function. Frontiers in neuroscience, 11, 690.

Chang W, et al. (2017) Serotonergic transmission at Merkel discs: modulation by exogenously applied chemical messengers and involvement of Ih currents. Journal of neurochemistry, 141(4), 565.

Oh CM, et al. (2015) Regulation of systemic energy homeostasis by serotonin in adipose tissues. Nature communications, 6, 6794.

Larson ED, et al. (2015) The Role of 5-HT3 Receptors in Signaling from Taste Buds to Nerves. The Journal of neuroscience : the official journal of the Society for Neuroscience, 35(48), 15984.