

Resource Summary Report

Generated by [dkNET](#) on Jul 30, 2026

B6.129S2-Emx1^{tm1}(cre)Krl/J

RRID:IMSR_JAX:005628

Type: Organism

Proper Citation

RRID:IMSR_JAX:005628

Organism Information

URL: <https://www.jax.org/strain/005628>

Proper Citation: RRID:IMSR_JAX:005628

Description: Mus musculus with name B6.129S2-Emx1^{tm1}(cre)Krl/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Emx1/J. B6.129-Emx1/J

Notes: gene symbol note: |empty spiracles homeobox 1; congenic strain: |Emx1

Affected Gene: |empty spiracles homeobox 1

Genomic Alteration: targeted mutation 1; Kevin R Jones

Catalog Number: JAX:005628

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Emx1^{tm1}(cre)Krl/J

Record Creation Time: 20250513T053651+0000

Record Last Update: 20260725T044401+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Emx1^{tm1}(cre)Krl/J.

No alerts have been found for B6.129S2-Emx1^{tm1}(cre)Krl/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 394 mentions in open access literature.

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

Cao X, et al. (2026) Cadherin 11 regulates presynaptic vesicle trafficking and neuronal activity in autism-related brain circuit. *Molecular psychiatry*, 31(1), 192.

Paulhus K, et al. (2025) Seizures and premature death in mice with targeted Kv1.1 deficiency in corticolimbic circuits. *Brain communications*, 7(1), fcae444.

Yin L, et al. (2025) Elevated EGR1 binding at enhancers in excitatory neurons correlates with neuronal subtype-specific epigenetic regulation. *BMC biology*, 23(1), 251.

Kochlamazashvili G, et al. (2025) Neuronal autophagy controls excitability via ryanodine receptor-mediated regulation of calcium-activated potassium channel function. *Proceedings of the National Academy of Sciences of the United States of America*, 122(17), e2413651122.

McMillan JD, et al. (2025) Proteomic Characterization of the Alzheimer's Disease Risk Factor BIN1 Interactome. *Molecular & cellular proteomics : MCP*, 24(9), 101055.

Kim S, et al. (2025) Alternatively spliced mini-exon B in PTP γ regulates excitatory synapses through cell-type-specific trans-synaptic PTP γ -IL1RAP interaction. *Nature communications*, 16(1), 4415.

Patel ZH, et al. (2025) Capicua regulates the survival of Cajal-Retzius cells in the postnatal hippocampus. *Cell death & disease*, 16(1), 898.

Tseng CS, et al. (2025) A developmental gradient of COUP-TFI expression regulates the relative size of hippocampus dorsal and ventral subregions. *PLoS biology*, 23(8), e3003355.

Newman AG, et al. (2025) Glial reactivity and cognitive decline follow chronic heterochromatin loss in neurons. *Nature communications*, 16(1), 7325.

Wang YH, et al. (2025) Hippocampus- and neocortex-specific deletion of Aeg-1 causes learning memory impairment and depression in mice. *Cell death & disease*, 16(1), 199.

Zhou M, et al. (2025) AIF3 splicing variant elicits mitochondrial malfunction via the concurrent dysregulation of electron transport chain and glutathione-redox homeostasis. *Nature communications*, 16(1), 1804.

Lee W, et al. (2025) Cyclin-dependent kinase inhibitor p18 regulates lineage transitions of excitatory neurons, astrocytes, and interneurons in the mouse cortex. *The EMBO journal*, 44(2), 382.

Vaissiere T, et al. (2025) Syngap1 promotes cognitive function through regulation of cortical sensorimotor dynamics. *Nature communications*, 16(1), 812.

Bagur S, et al. (2025) A spatial code for temporal information is necessary for efficient sensory learning. *Science advances*, 11(2), eadr6214.

Phi TC, et al. (2025) Integrated information theory reveals the potential role of the posterior parietal cortex in sustaining conditioning responses in classical conditioning tasks. *Frontiers in neuroscience*, 19, 1512724.

Mirzaa GM, et al. (2025) Pathogenic variants in SMARCA1 cause an X-linked neurodevelopmental disorder modulated by NURF complex composition. *Nature communications*, 16(1), 9875.

Zhou BY, et al. (2025) Central Med23 deficiency leads to malformation of dentate gyrus and ADHD-like behaviors in mice. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 50(8), 1224.

Canet G, et al. (2025) Sleep-wake variation in body temperature regulates tau secretion and correlates with CSF and plasma tau. *The Journal of clinical investigation*, 135(7).

Inácio AR, et al. (2025) Brain-wide presynaptic networks of functionally distinct cortical neurons. *Nature*, 641(8061), 162.

Le Gac B, et al. (2025) Elevated pyramidal cell firing orchestrates arteriolar vasoconstriction through COX-2-derived prostaglandin E2 signaling. *eLife*, 13.