

Resource Summary Report

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

[C57BL/6-Mcph1^{Tg\(HLA-A2.1\)1Enge/J}](#)

RRID:IMSR_JAX:003475

Type: Organism

Proper Citation

RRID:IMSR_JAX:003475

Organism Information

URL: <https://www.jax.org/strain/003475>

Proper Citation: RRID:IMSR_JAX:003475

Description: Mus musculus with name C57BL/6-Mcph1^{Tg(HLA-A2.1)1Enge/J} from IMSR.

Species: Mus musculus

Synonyms: C57BL/6-Tg(HLA-A2.1)1Enge/J

Notes: gene symbol note: major histocompatibility complex; class I; A|major histocompatibility complex; class I; subtype A2.1|microcephaly; primary autosomal recessive 1; mutant strain: HLA-A|HLA-A2.1|Mcph1

Affected Gene: major histocompatibility complex; class I; A|major histocompatibility complex; class I; subtype A2.1|microcephaly; primary autosomal recessive 1

Genomic Alteration: transgene insertion 1; Victor H Engelhard

Catalog Number: JAX:003475

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6-Mcph1^{Tg(HLA-A2.1)1Enge/J}

Record Creation Time: 20250513T053639+0000

Record Last Update: 20260801T050342+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Mcph1^{Tg(HLA-A2.1)}1Enge/J.

No alerts have been found for C57BL/6-Mcph1^{Tg(HLA-A2.1)}1Enge/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Lee H, et al. (2025) Single-cell RNA sequencing revealed the role of the Th17 pathway in the development of anti- human leukocyte antigen antibodies in a highly sensitized mouse model. *Kidney research and clinical practice*, 44(6), 960.

Niizuma K, et al. (2025) Donor-Targeted Anti-HLA-A2 Antibody Shows Nanogram-Level Efficacy in a Novel GVHD Mouse Model. *bioRxiv : the preprint server for biology*.

Fang X, et al. (2024) Combined Use of Tocilizumab and Mesenchymal Stem Cells Attenuate the Development of an Anti-HLA-A2.1 Antibody in a Highly Sensitized Mouse Model. *International journal of molecular sciences*, 25(3).

Tarone L, et al. (2023) A chimeric human/dog-DNA vaccine against CSPG4 induces immunity with therapeutic potential in comparative preclinical models of osteosarcoma. *Molecular therapy : the journal of the American Society of Gene Therapy*, 31(8), 2342.

Chakraborty P, et al. (2022) Carbon Monoxide Activates PERK-Regulated Autophagy to Induce Immunometabolic Reprogramming and Boost Antitumor T-cell Function. *Cancer research*, 82(10), 1969.

Pierini S, et al. (2020) Ovarian granulosa cell tumor characterization identifies FOXL2 as an immunotherapeutic target. *JCI insight*, 5(16).

Chakraborty P, et al. (2019) Pro-Survival Lipid Sphingosine-1-Phosphate Metabolically Programs T Cells to Limit Anti-tumor Activity. *Cell reports*, 28(7), 1879.

Chatterjee S, et al. (2018) CD38-NAD⁺Axis Regulates Immunotherapeutic Anti-Tumor T Cell Response. *Cell metabolism*, 27(1), 85.