

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 20, 2026

NOD.Cg-B2m^{tm1Unc} Tg(B2M)55Hpl Tg(HLA-A*1101/H2-K)#Sette/TdIlJ

RRID:IMSR_JAX:027849

Type: Organism

Proper Citation

RRID:IMSR_JAX:027849

Organism Information

URL: <https://www.jax.org/strain/027849>

Proper Citation: RRID:IMSR_JAX:027849

Description: Mus musculus with name NOD.Cg-B2m^{tm1Unc} Tg(B2M)55Hpl Tg(HLA-A*1101/H2-K)#Sette/TdIlJ from IMSR.

Species: Mus musculus

Synonyms: NOD.mbeta2m.hbeta2m.HLA-A11

Notes: gene symbol note: transgene insertion; Alessandro Sette|major histocompatibility complex; class I; A; human and histocompatibility 2; K region fusion gene|beta-2-microglobulin|beta-2 microglobulin|transgene insertion 55; Hidde Ploegh; mutant strain|congenic strain: Tg(HLA-A*1101/H2-K)#Sette|HLA-A/H2-K|B2M|B2m|Tg(B2M)55Hpl

Affected Gene: transgene insertion; Alessandro Sette|major histocompatibility complex; class I; A; human and histocompatibility 2; K region fusion gene|beta-2-microglobulin|beta-2 microglobulin|transgene insertion 55; Hidde Ploegh

Genomic Alteration: transgene insertion; Alessandro Sette|transgene insertion 55; Hidde Ploegh|targeted mutation 1; University of North Carolina

Catalog Number: JAX:027849

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: NOD.Cg-B2m^{tm1Unc} Tg(B2M)55Hpl Tg(HLA-A*1101/H2-K)
)#Sette/TdilJ

Record Creation Time: 20250513T053802+0000

Record Last Update: 20260919T054946+0000

Ratings and Alerts

No rating or validation information has been found for NOD.Cg-B2m^{tm1Unc} Tg(B2M)55Hpl Tg(HLA-A*1101/H2-K)#Sette/TdilJ.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human type 1 diabetes mellitus.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Cong H, et al. (2010) Human immunome, bioinformatic analyses using HLA supermotifs and the parasite genome, binding assays, studies of human T cell responses, and immunization of HLA-A*1101 transgenic mice including novel adjuvants provide a foundation for HLA-A03 restricted CD8+T cell epitope based, adjuvanted vaccine protective against Toxoplasma gondii. Immunome research, 6, 12.

Mattner J, et al. (2008) Liver autoimmunity triggered by microbial activation of natural killer T cells. Cell host & microbe, 3(5), 304.