

Resource Summary Report

Generated by T1D on Sep 20, 2026

B6.Cg-B2m^{tm1Unc} H2-Ab1 Tg(HLA-A/H2-D/B2M)1Bpe
Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma Tg(MMTV-
neu/OT-I/OT-II)CBnel/Orl

RRID:IMSR_EM:05777

Type: Organism

Proper Citation

RRID:IMSR_EM:05777

Organism Information

URL: <https://www.infrafrontier.eu/emma/strain-details/?q=5777>

Proper Citation: RRID:IMSR_EM:05777

Description: Mus musculus with name B6.Cg-B2m^{tm1Unc} H2-Ab1 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma Tg(MMTV-neu/OT-I/OT-II)CBnel/Orl from IMSR.

Species: Mus musculus

Synonyms: SURE-L1/Her2-neu. B6.Cg-B2m H2-Ab1 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma Tg(MMTV-neu/OT-I/OT-II)CBnel/Orl

Notes: gene symbol note: histocompatibility 2; class II antigen A; beta 1|transgene insertion 1; Beatrice Perarnau|transgene insertion 1; Daniel M Altmann|beta-2 microglobulin|transgene insertion C; Brad Nelson; mutant strain: H2-Ab1|Tg(HLA-A/H2-D/B2M)1Bpe|Tg(HLA-DRA*0101;HLA-DRB1*0101)1Dma|B2m|Tg(MMTV-neu/OT-I/OT-II)CBnel

Affected Gene: histocompatibility 2; class II antigen A; beta 1|transgene insertion 1; Beatrice Perarnau|transgene insertion 1; Daniel M Altmann|beta-2 microglobulin|transgene insertion C; Brad Nelson

Genomic Alteration: targeted mutation 1; Christophe Benoist and Diane Mathis|transgene insertion 1; Beatrice Perarnau|transgene insertion 1; Daniel M Altmann|targeted mutation 1; University of North Carolina|transgene insertion C; Brad Nelson

Catalog Number: EM:05777

Database: European Mouse Mutant Archive

Database Abbreviation: EMMA

Availability: embryo

Organism Name: B6.Cg-B2m^{tm1Unc} H2-Ab1 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma Tg(MMTV-neu/OT-I/OT-II)CBnel/Orl

Record Creation Time: 20250513T062230+0000

Record Last Update: 20260919T064147+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-B2m^{tm1Unc} H2-Ab1 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma Tg(MMTV-neu/OT-I/OT-II)CBnel/Orl.

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: European Mouse Mutant Archive

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Wu H, et al. (2025) Combined Phytochemical Sulforaphane and Dietary Fiber Inulin Contribute to the Prevention of ER-Negative Breast Cancer via PI3K/AKT/MTOR Pathway and Modulating Gut Microbial Composition. *Nutrients*, 17(12).

Sabit H, et al. (2025) Bridging the Gap in Breast Cancer Dormancy: Models, Mechanisms, and Translational Challenges. *Pharmaceuticals (Basel, Switzerland)*, 18(7).

Koliesnik IO, et al. (2020) The Heparan Sulfate Mimetic PG545 Modulates T Cell Responses and Prevents Delayed-Type Hypersensitivity. *Frontiers in immunology*, 11, 132.

Greenshields-Watson A, et al. (2020) CD4+ T Cells Recognize Conserved Influenza A Epitopes through Shared Patterns of V-Gene Usage and Complementary Biochemical Features. *Cell reports*, 32(2), 107885.