

Resource Summary Report

Generated by [dkNET](#) on Sep 9, 2026

STOCK B2m^{tm1Unc} H2-Ab1 Foxp3 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma/Orl

RRID:IMSR_EM:10977

Type: Organism

Proper Citation

RRID:IMSR_EM:10977

Organism Information

URL: <https://www.infrafrontier.eu/emma/strain-details/?q=10977>

Proper Citation: RRID:IMSR_EM:10977

Description: Mus musculus with name STOCK B2m^{tm1Unc} H2-Ab1 Foxp3 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma/Orl from IMSR.

Species: Mus musculus

Notes: gene symbol note: beta-2 microglobulin|histocompatibility 2; class II antigen A; beta 1|transgene insertion 1; Beatrice Perarnau|forkhead box P3|transgene insertion 1; Daniel M Altmann; mutant strain: B2m|H2-Ab1|Tg(HLA-A/H2-D/B2M)1Bpe|Foxp3|Tg(HLA-DRA*0101;HLA-DRB1*0101)1Dma

Affected Gene: beta-2 microglobulin|histocompatibility 2; class II antigen A; beta 1|transgene insertion 1; Beatrice Perarnau|forkhead box P3|transgene insertion 1; Daniel M Altmann

Genomic Alteration: targeted mutation 1; University of North Carolina|targeted mutation 1; Christophe Benoist and Diane Mathis|transgene insertion 1; Beatrice Perarnau|Foxp3|transgene insertion 1; Daniel M Altmann

Catalog Number: EM:10977

Database: European Mouse Mutant Archive

Database Abbreviation: EMMA

Availability: embryo

Organism Name: STOCK B2m^{tm1Unc} H2-Ab1 Foxp3 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma/Orl

Record Creation Time: 20250513T062302+0000

Record Last Update: 20260905T053348+0000

Ratings and Alerts

No rating or validation information has been found for STOCK B2m^{tm1Unc} H2-Ab1 Foxp3 Tg(HLA-A/H2-D/B2M)1Bpe Tg(HLA-DRA*0101.HLA-DRB1*0101)1Dma/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 6 mentions in open access literature.

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

Ali S, et al. (2026) Butyrophilin 2A2 promotes T cell immunoregulation via CD45 phosphatase activation and protects against murine autoimmune glomerulonephritis and pregnancy loss. *Nature communications*, 17(1), 1325.

Sun XM, et al. (2025) *Trichinella spiralis* adult excretory-secretory antigen promotes peripheral regulatory T cell differentiation and attenuates experimental colitis via TGF- β -like mechanisms. *Parasites & vectors*, 18(1), 240.

Elias-Oliveira J, et al. (2025) *Lactococcus lactis*-HSP65 requires TLR2 to induce tolerogenic dendritic cells and confer protection against type 1 diabetes in a murine model. *Cellular and molecular life sciences : CMLS*, 82(1), 435.

Fu D, et al. (2025) Dual targeting of tumoral cells and immune microenvironment by blocking the IL-33/IL1RL1 pathway. *Nature communications*, 16(1), 6369.

Pan J, et al. (2025) Bezafibrate-driven mitochondrial targeting enhances antitumor immunity and prevents lung cancer via CD8⁺ T cell infiltration and MDSC reduction. *Frontiers in immunology*, 16, 1539808.

Camacho V, et al. (2025) Major histocompatibility complex class II-expressing bone marrow megakaryocytes activate CD4⁺ T cells and induce regulatory T cell fate. *bioRxiv : the preprint server for biology*.