

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

B6;129-Hbb^{tm2(HBG1.HBB*)}Tow/Hbb Hba/J

RRID:IMSR_JAX:013071

Type: Organism

Proper Citation

RRID:IMSR_JAX:013071

Organism Information

URL: <https://www.jax.org/strain/013071>

Proper Citation: RRID:IMSR_JAX:013071

Description: Mus musculus with name B6;129-Hbb^{tm2(HBG1.HBB*)}Tow/Hbb Hba/J from IMSR.

Species: Mus musculus

Synonyms: Townes SCD model. B6;129-Hba Hbb/J. B6;129-Hba Hbb/Hbb/J

Notes: gene symbol note: hemoglobin beta chain complex|hemoglobin subunit gamma 1|hemoglobin subunit beta|hemoglobin alpha chain complex|hemoglobin; alpha; mutant stock: Hbb|HBG1|HBB|Hba|HBA

Affected Gene: hemoglobin beta chain complex|hemoglobin subunit gamma 1|hemoglobin subunit beta|hemoglobin alpha chain complex|hemoglobin; alpha

Genomic Alteration: targeted mutation 3; Timothy Townes|targeted mutation 2; Timothy Townes|targeted mutation 1; Timothy Townes

Catalog Number: JAX:013071

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129-Hbb^{tm2(HBG1.HBB*)}Tow/Hbb Hba/J

Record Creation Time: 20250513T053723+0000

Record Last Update: 20260725T044433+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Hbb^{tm2(HBG1.HBB*)}Tow/Hbb Hba/J.

No alerts have been found for B6;129-Hbb^{tm2(HBG1.HBB*)}Tow/Hbb Hba/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Cai D, et al. (2025) Total ginsenosides enhance γ -globin expression and fetal hemoglobin production in β -thalassemia models. *Frontiers in pharmacology*, 16, 1578237.

Brandow AM, et al. (2025) Gut microbiota and metabolites drive chronic sickle cell disease pain in mice. *Cell host & microbe*.

Vu BL, et al. (2025) Cyp7b1-inhibiting azoles as novel enhancers of hematopoietic stem and progenitor cell mobilization. *bioRxiv : the preprint server for biology*.

Chambliss C, et al. (2025) Characterizing pregnancy outcomes in a humanized mouse model of sickle cell disease. *British journal of haematology*, 207(3), 813.

Zapater JL, et al. (2025) Hemoglobin S Promotes Glycemic Dysregulation in a Mouse Model of Human Sickle Cell Disease. *Endocrinology*, 166(6).

Zhao Z, et al. (2025) Sickle cell disease induces chromatin introversion and ferroptosis in CD8+ T cells to suppress anti-tumor immunity. *Immunity*, 58(6), 1484.

Ahmad A, et al. (2023) Induction of Heparin Expression in the Renal Cortex of Sickle Cell Disease Mice. *International journal of molecular sciences*, 24(13).

Carreño M, et al. (2022) Immunomodulatory actions of a kynurenine-derived endogenous electrophile. *Science advances*, 8(26), eabm9138.

Sagi V, et al. (2018) Mouse Models of Pain in Sickle Cell Disease. *Current protocols in neuroscience*, 85(1), e54.