

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

STOCK Tc(HSA21q-MAC1)/Rbrc

RRID:IMSR_RBRC05796

Type: Organism

Proper Citation

RRID:IMSR_RBRC05796

Organism Information

URL: <https://brc.riken.jp/mus/RBRC05796>

Proper Citation: RRID:IMSR_RBRC05796

Description: Mus musculus with name STOCK Tc(HSA21q-MAC1)/Rbrc from IMSR.

Species: Mus musculus

Notes: gene symbol note: transchromosomal; human 21q (MAC); mutant stock: Tc(HSA21q-MAC1)

Affected Gene: transchromosomal; human 21q (MAC)

Genomic Alteration: transchromosomal; human 21q (MAC)

Catalog Number: RBRC05796

Database: RIKEN BioResource Research Center

Database Abbreviation: RBRC

Availability: embryo

Organism Name: STOCK Tc(HSA21q-MAC1)/Rbrc

Record Creation Time: 20250513T061505+0000

Record Last Update: 20260919T063226+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tc(HSA21q-MAC1)/Rbrc.

No alerts have been found for STOCK Tc(HSA21q-MAC1)/Rbrc.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: RIKEN BioResource Research Center

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Stander R, et al. (2025) Altered motor coordination, vocal communication, and cerebellar circuit connectivity in mice carrying a near-complete human chromosome 21. *Translational psychiatry*, 16(1), 14.

Hou L, et al. (2023) Integrin Mac1 mediates paraquat and maneb-induced learning and memory impairments in mice through NADPH oxidase-NLRP3 inflammasome axis-dependent microglial activation. *Journal of neuroinflammation*, 20(1), 42.

Su EJ, et al. (2017) Microglial-mediated PDGF-CC activation increases cerebrovascular permeability during ischemic stroke. *Acta neuropathologica*, 134(4), 585.

Jin R, et al. (2013) Soluble CD40 ligand stimulates CD40-dependent activation of the $\alpha 2$ integrin Mac-1 and protein kinase C ζ (PKC ζ) in neutrophils: implications for neutrophil-platelet interactions and neutrophil oxidative burst. *PloS one*, 8(6), e64631.

Simon DI, et al. (2000) Platelet glycoprotein Ib α is a counterreceptor for the leukocyte integrin Mac-1 (CD11b/CD18). *The Journal of experimental medicine*, 192(2), 193.