

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

STOCK Tg(RP23-370F21-optoa1AR-IRES-lacZ)B6Mik

RRID:IMSR_CHROMUS:B6

Type: Organism

Proper Citation

RRID:IMSR_CHROMUS:B6

Organism Information

URL: <http://chromus.vet.cornell.edu/acta2-optoa1ar-ires-lacz/>

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Description: Mus musculus with name STOCK Tg(RP23-370F21-optoa1AR-IRES-lacZ)B6Mik from IMSR.

Species: Mus musculus

Notes: gene symbol note: rhodopsin based optogenetic effector|actin alpha 2; smooth muscle; aorta|transgene insertion B6; Michael I Kotlikoff|beta-galactosidase; mutant stock: optoa1AR|Acta2|Tg(RP23-370F21-optoa1AR-IRES-lacZ)B6Mik|lacZ

Affected Gene: rhodopsin based optogenetic effector|actin alpha 2; smooth muscle; aorta|transgene insertion B6; Michael I Kotlikoff|beta-galactosidase

Genomic Alteration: transgene insertion B6; Michael I Kotlikoff

Catalog Number: CHROMUS:B6

Database: Cornell Heart Lung Blood Resource for Optogenetic Mouse Signaling

Database Abbreviation: CHROMus

Availability: live

Organism Name: STOCK Tg(RP23-370F21-optoa1AR-IRES-lacZ)B6Mik

Record Creation Time: 20250513T062410+0000

Record Last Update: 20260725T053146+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(RP23-370F21-optoa1AR-IRES-lacZ)B6Mik.

No alerts have been found for STOCK Tg(RP23-370F21-optoa1AR-IRES-lacZ)B6Mik.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Cornell Heart Lung Blood Resource for Optogenetic Mouse Signaling

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Lee FK, et al. (2021) Genetically engineered mice for combinatorial cardiovascular optobiology. eLife, 10.