

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 15, 2026

B6.Cg-Tg(Tph2-tTA)1Ahky/AhkyRbrc

RRID:IMSR_RBRC05846

Type: Organism

Proper Citation

RRID:IMSR_RBRC05846

Organism Information

URL: <https://brc.riken.jp/mus/RBRC05846>

Proper Citation: RRID:IMSR_RBRC05846

Description: Mus musculus with name B6.Cg-Tg(Tph2-tTA)1Ahky/AhkyRbrc from IMSR.

Species: Mus musculus

Notes: gene symbol note: tetracycline-controlled transactivator protein|transgene insertion 1; Akihiro Yamanaka|tryptophan hydroxylase 2; mutant strain: tTA|Tg(Tph2-tTA)1Ahky|Tph2

Affected Gene: tetracycline-controlled transactivator protein|transgene insertion 1; Akihiro Yamanaka|tryptophan hydroxylase 2

Genomic Alteration: tetracycline-controlled transactivator protein|transgene insertion 1; Akihiro Yamanaka|tryptophan hydroxylase 2

Catalog Number: RBRC05846

Database: RIKEN BioResource Research Center

Database Abbreviation: RBRC

Availability: embryo

Organism Name: B6.Cg-Tg(Tph2-tTA)1Ahky/AhkyRbrc

Record Creation Time: 20250513T061505+0000

Record Last Update: 20260815T054828+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Tph2-tTA)1Ahky/AhkyRbrc.

No alerts have been found for B6.Cg-Tg(Tph2-tTA)1Ahky/AhkyRbrc.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: RIKEN BioResource Research Center

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Rahaman SM, et al. (2022) Functional Interaction Between GABAergic Neurons in the Ventral Tegmental Area and Serotonergic Neurons in the Dorsal Raphe Nucleus. *Frontiers in neuroscience*, 16, 877054.

Moriya S, et al. (2022) Involvement of A5/A7 noradrenergic neurons and B2 serotonergic neurons in nociceptive processing: a fiber photometry study. *Neural regeneration research*, 17(4), 881.

Kawai H, et al. (2022) Median raphe serotonergic neurons projecting to the interpeduncular nucleus control preference and aversion. *Nature communications*, 13(1), 7708.

Ohmura Y, et al. (2021) Disruption of model-based decision making by silencing of serotonin neurons in the dorsal raphe nucleus. *Current biology : CB*, 31(11), 2446.

Nishitani N, et al. (2021) Serotonin neurons in the median raphe nucleus bidirectionally regulate somatic signs of nicotine withdrawal in mice. *Biochemical and biophysical research communications*, 562, 62.

Miyazaki K, et al. (2020) Serotonergic projections to the orbitofrontal and medial prefrontal cortices differentially modulate waiting for future rewards. *Science advances*, 6(48).

Nagai Y, et al. (2020) The Role of Dorsal Raphe Serotonin Neurons in the Balance between Reward and Aversion. *International journal of molecular sciences*, 21(6).

Ohmura Y, et al. (2020) Different roles of distinct serotonergic pathways in anxiety-like behavior, antidepressant-like, and anti-impulsive effects. *Neuropharmacology*, 167, 107703.

Miyazaki K, et al. (2018) Reward probability and timing uncertainty alter the effect of dorsal raphe serotonin neurons on patience. *Nature communications*, 9(1), 2048.

Weber T, et al. (2012) Tetracycline inducible gene manipulation in serotonergic neurons. *PloS one*, 7(5), e38193.