

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

tol2-4xnr UAS-PA Rac1-mCherry

RRID:Addgene_41878

Type: Plasmid

Proper Citation

RRID:Addgene_41878

Plasmid Information

URL: <http://www.addgene.org/41878>

Proper Citation: RRID:Addgene_41878

Insert Name: photoactivatable Rac1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Vector Backbone Description: Vector Backbone:Tol2; Vector Types:zebrafish expression; Bacterial Resistance:Ampicillin

Comments: Please note that Addgene's sequencing results differ from the full plasmid sequence provided by the depositing laboratory at bp# 895, 920 and 1702. According to the depositing lab, these differences are not a concern for the function of the plasmid.

Plasmid Name: tol2-4xnr UAS-PA Rac1-mCherry

Relevant Mutation: Rac1 starts at l4 and contains mutations Q61L, E91H and N92H (Rac1 insert derived from Addgene plasmid# 22027)

Record Creation Time: 20220422T222216+0000

Record Last Update: 20260815T081448+0000

Ratings and Alerts

No rating or validation information has been found for tol2-4xnr UAS-PA Rac1-mCherry.

No alerts have been found for tol2-4xnr UAS-PA Rac1-mCherry.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Zhang Y, et al. (2019) Generating intravital super-resolution movies with conventional microscopy reveals actin dynamics that construct pioneer axons. Development (Cambridge, England), 146(5).

Nichols EL, et al. (2019) Pioneer axons employ Cajal's battering ram to enter the spinal cord. Nature communications, 10(1), 562.