

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 10, 2026

YFP-Rac1

RRID:Addgene_11391

Type: Plasmid

Proper Citation

RRID:Addgene_11391

Plasmid Information

URL: <http://www.addgene.org/11391>

Proper Citation: RRID:Addgene_11391

Insert Name: ras-related C3 botulinum toxin substrate 1

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:15169870](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4731; Vector Backbone:pEYFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Expresses Rac1 with an N-terminal YFP marker. YFP is the monomeric (A207K) version of Citrine, a pH-insensitive YFP.

Plasmid Name: YFP-Rac1

Record Creation Time: 20220422T221556+0000

Record Last Update: 20260808T080503+0000

Ratings and Alerts

No rating or validation information has been found for YFP-Rac1.

No alerts have been found for YFP-Rac1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Bao L, et al. (2022) The cellular function of ROP GTPase prenylation is important for multicellularity in the moss *Physcomitrium patens*. *Development (Cambridge, England)*, 149(12).

Wang M, et al. (2021) Control of Intestinal Epithelial Permeability by Lysophosphatidic Acid Receptor 5. *Cellular and molecular gastroenterology and hepatology*, 12(3), 1073.

Fray MA, et al. (2020) Vav2 lacks Ca²⁺ entry-promoting scaffolding functions unique to Vav1 and inhibits T cell activation via Cdc42. *Journal of cell science*, 133(5).

Singh RK, et al. (2019) Dynamic Actin Reorganization and Vav/Cdc42-Dependent Actin Polymerization Promote Macrophage Aggregated LDL (Low-Density Lipoprotein) Uptake and Catabolism. *Arteriosclerosis, thrombosis, and vascular biology*, 39(2), 137.

Fan SH, et al. (2016) Endosomal Na⁺/H⁺ exchanger NHE5 influences MET recycling and cell migration. *Molecular biology of the cell*, 27(4), 702.