

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

pB-GLUT4-7myc-GFP

RRID:Addgene_52872

Type: Plasmid

Proper Citation

RRID:Addgene_52872

Plasmid Information

URL: <http://www.addgene.org/52872>

Proper Citation: RRID:Addgene_52872

Insert Name: GLUT4

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11416153](#)

Vector Backbone Description: Backbone Marker:Bogan lab, unpublished; Backbone Size:5783; Vector Backbone:pB; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: Plasmid is also called pB-G7. We use FACS to select infected cells that express GFP. There is a short linker between GLUT4 and GFP.

Plasmid Name: pB-GLUT4-7myc-GFP

Record Creation Time: 20220422T222310+0000

Record Last Update: 20260815T081625+0000

Ratings and Alerts

No rating or validation information has been found for pB-GLUT4-7myc-GFP.

No alerts have been found for pB-GLUT4-7myc-GFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Wu D, et al. (2024) PAK4 phosphorylates and inhibits AMPK? to control glucose uptake. Nature communications, 15(1), 6858.

Knudsen JR, et al. (2023) Microtubule-mediated GLUT4 trafficking is disrupted in insulin-resistant skeletal muscle. eLife, 12.

Song NJ, et al. (2022) Epiregulin as an Alternative Ligand for Leptin Receptor Alleviates Glucose Intolerance without Change in Obesity. Cells, 11(3).

Pessoa Rodrigues C, et al. (2021) Histone H4 lysine 16 acetylation controls central carbon metabolism and diet-induced obesity in mice. Nature communications, 12(1), 6212.

Das PR, et al. (2021) Aqueous green tea infusion extracted by ultra-sonication method, but not by conventional method, facilitates GLUT4 membrane translocation in adipocytes which potentially ameliorates high-fat diet-induced obesity. Journal of food biochemistry, 45(1), e13561.

Gu J, et al. (2021) CFTR Deficiency Affects Glucose Homeostasis via Regulating GLUT4 Plasma Membrane Transportation. Frontiers in cell and developmental biology, 9, 630654.

Alshafie W, et al. (2020) Regulated resurfacing of a somatostatin receptor storage compartment fine-tunes pituitary secretion. The Journal of cell biology, 219(1).

Knudsen JR, et al. (2019) Electroporated GLUT4-7myc-GFP detects in vivo glucose transporter 4 translocation in skeletal muscle without discernible changes in GFP patterns. Experimental physiology, 104(5), 704.

Henríquez-Olguin C, et al. (2019) Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. Nature communications, 10(1), 4623.