

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

FLAG-Foxo1(pCMV5)

RRID:Addgene_12148

Type: Plasmid

Proper Citation

RRID:Addgene_12148

Plasmid Information

URL: <http://www.addgene.org/12148>

Proper Citation: RRID:Addgene_12148

Insert Name: Foxo1

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16154098](#)

Vector Backbone Description: Backbone Size:4700; Vector Backbone:pCMV5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Note that a BLAST search with Addgene's quality control sequence shows a K219R mutation. The Accili lab has explained that this is a common variant and they do not consider it a mutation at all. They have used the plasmid routinely without issue. The plasmid also contains an L619P polymorphism.

Plasmid Name: FLAG-Foxo1(pCMV5)

Record Creation Time: 20220422T221636+0000

Record Last Update: 20260815T080335+0000

Ratings and Alerts

No rating or validation information has been found for FLAG-Foxo1(pCMV5).

No alerts have been found for FLAG-Foxo1(pCMV5).

Data and Source Information

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Dennis KMJH, et al. (2025) FoxO1-zDHHC4-CD36 S-Acylation Axis Drives Metabolic Dysfunction in Diabetes. *Circulation research*, 136(12), 1545.

You JE, et al. (2025) Secreted AZGP1 induced by 5-FU binds to PD-L1 and promotes apoptosis in cholangiocarcinoma. *Molecular medicine (Cambridge, Mass.)*, 31(1), 295.

Czerny CC, et al. (2022) FOXA1 is a transcriptional activator of Odf2/Cenexin and regulates primary ciliation. *Scientific reports*, 12(1), 21468.

Salcher S, et al. (2020) A drug library screen identifies Carbenoxolone as novel FOXO inhibitor that overcomes FOXO3-mediated chemoprotection in high-stage neuroblastoma. *Oncogene*, 39(5), 1080.

Zhao M, et al. (2020) Protein O-GlcNAc Modification Links Dietary and Gut Microbial Cues to the Differentiation of Enteroendocrine L Cells. *Cell reports*, 32(6), 108013.

Garrel G, et al. (2019) GnRH Transactivates Human AMH Receptor Gene via Egr1 and FOXO1 in Gonadotrope Cells. *Neuroendocrinology*, 108(2), 65.

Shen M, et al. (2018) Melatonin protects mouse granulosa cells against oxidative damage by inhibiting FOXO1-mediated autophagy: Implication of an antioxidation-independent mechanism. *Redox biology*, 18, 138.

Shen M, et al. (2017) Protective mechanism of FSH against oxidative damage in mouse ovarian granulosa cells by repressing autophagy. *Autophagy*, 13(8), 1364.

Long MJ, et al. (2017) Akt3 is a privileged first responder in isozyme-specific electrophile response. *Nature chemical biology*, 13(3), 333.

Gopal K, et al. (2017) FoxO1 regulates myocardial glucose oxidation rates via transcriptional control of pyruvate dehydrogenase kinase 4 expression. *American journal of physiology. Heart and circulatory physiology*, 313(3), H479.

Lainé A, et al. (2015) Foxo1 Is a T Cell-Intrinsic Inhibitor of the ROR γ t-Th17 Program. *Journal of immunology (Baltimore, Md. : 1950)*, 195(4), 1791.

Kim HN, et al. (2015) Sirtuin1 Suppresses Osteoclastogenesis by Deacetylating FoxOs. *Molecular endocrinology (Baltimore, Md.)*, 29(10), 1498.

Iyer S, et al. (2014) Sirtuin1 (Sirt1) promotes cortical bone formation by preventing β -catenin sequestration by FoxO transcription factors in osteoblast progenitors. *The Journal of biological chemistry*, 289(35), 24069.