

# Resource Summary Report

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

## [G6PD/pRK5](#)

RRID:Addgene\_41521

Type: Plasmid

### Proper Citation

RRID:Addgene\_41521

### Plasmid Information

**URL:** <http://www.addgene.org/41521>

**Proper Citation:** RRID:Addgene\_41521

**Insert Name:** glucose-6-phosphate dehydrogenase

**Organism:** Homo sapiens

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:21336310](#)

**Vector Backbone Description:** Vector Backbone:pRK5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

**Plasmid Name:** G6PD/pRK5

**Record Creation Time:** 20220422T222215+0000

**Record Last Update:** 20260815T081446+0000

### Ratings and Alerts

No rating or validation information has been found for G6PD/pRK5.

No alerts have been found for G6PD/pRK5.

### Data and Source Information

**Source:** [Addgene](#)

### Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Xie S, et al. (2026) Loss of p53 exacerbates autoimmunity by reprogramming propionyl-CoA metabolism and histone modifications in Treg cells. *Cell reports*, 45(3), 117084.

Wu F, et al. (2023) Acetylation-dependent coupling between G6PD activity and apoptotic signaling. *Nature communications*, 14(1), 6208.

Lu F, et al. (2022) Thioredoxin 1 supports colorectal cancer cell survival and promotes migration and invasion under glucose deprivation through interaction with G6PD. *International journal of biological sciences*, 18(14), 5539.

D??hla J, et al. (2022) Metabolic determination of cell fate through selective inheritance of mitochondria. *Nature cell biology*, 24(2), 148.

Silic-Benussi M, et al. (2022) mTOR inhibition downregulates glucose-6-phosphate dehydrogenase and induces ROS-dependent death in T-cell acute lymphoblastic leukemia cells. *Redox biology*, 51, 102268.

Min HY, et al. (2022) Targeting epidermal growth factor receptor in paclitaxel-resistant human breast and lung cancer cells with upregulated glucose-6-phosphate dehydrogenase. *British journal of cancer*, 127(4), 661.

Hanna JA, et al. (2016) PAX7 is a required target for microRNA-206-induced differentiation of fusion-negative rhabdomyosarcoma. *Cell death & disease*, 7(6), e2256.

Geering B, et al. (2016) Identification of Novel Death-Associated Protein Kinase 2 Interaction Partners by Proteomic Screening Coupled with Bimolecular Fluorescence Complementation. *Molecular and cellular biology*, 36(1), 132.