

Resource Summary Report

Generated by [NIF](#) on Sep 15, 2026

[AAVS1_sgRNA](#)

RRID:Addgene_100554

Type: Plasmid

Proper Citation

RRID:Addgene_100554

Plasmid Information

URL: <http://www.addgene.org/100554>

Proper Citation: RRID:Addgene_100554

Insert Name: AAVS1 sgRNA

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:28737741](#)

Vector Backbone Description: Vector Backbone:gRNA_cloning_vector (#41824); Vector Types;; Bacterial Resistance:Kanamycin

Plasmid Name: AAVS1_sgRNA

Record Creation Time: 20220422T221448+0000

Record Last Update: 20260912T091337+0000

Ratings and Alerts

No rating or validation information has been found for AAVS1_sgRNA.

No alerts have been found for AAVS1_sgRNA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Sun W, et al. (2025) TAB2 deficiency induces dilated cardiomyopathy by promoting mitochondrial calcium overload in human iPSC-derived cardiomyocytes. *Molecular medicine (Cambridge, Mass.)*, 31(1), 42.

Zhang J, et al. (2024) PLEKHM2 deficiency induces impaired mitochondrial clearance and elevated ROS levels in human iPSC-derived cardiomyocytes. *Cell death discovery*, 10(1), 142.

Jiang Y, et al. (2022) Ranolazine rescues the heart failure phenotype of PLN-deficient human pluripotent stem cell-derived cardiomyocytes. *Stem cell reports*, 17(4), 804.

Li X, et al. (2019) MLP-deficient human pluripotent stem cell derived cardiomyocytes develop hypertrophic cardiomyopathy and heart failure phenotypes due to abnormal calcium handling. *Cell death & disease*, 10(8), 610.