

Resource Summary Report

Generated by [dkNET](#) on Aug 7, 2026

pST1374-NLS-flag-linker-Cas9

RRID:Addgene_44758

Type: Plasmid

Proper Citation

RRID:Addgene_44758

Plasmid Information

URL: <http://www.addgene.org/44758>

Proper Citation: RRID:Addgene_44758

Insert Name: Human codon optimized Cas9

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23545779](#)

Vector Backbone Description: Backbone Marker:pST1374-based custom vector; Backbone Size:5052; Vector Backbone:pST1374 (Addgene #13426); Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: The 32 amino acid linker sequence comes after the Flag tag and before the beginning of the Cas9 sequence. This 32 amino acid linker sequence is not depicted in the depositor's full plasmid sequence.

Plasmid Name: pST1374-NLS-flag-linker-Cas9

Relevant Mutation: codon-optimized

Record Creation Time: 20220422T222231+0000

Record Last Update: 20260801T081335+0000

Ratings and Alerts

No rating or validation information has been found for pST1374-NLS-flag-linker-Cas9.

No alerts have been found for pST1374-NLS-flag-linker-Cas9.

Data and Source Information

Usage and Citation Metrics

We found 144 mentions in open access literature.

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

Lu T, et al. (2026) PUMILIO proteins maintain lineage balance via post-transcriptional repression of germline fate and promotion of somatic differentiation. *Cell reports*, 45(7), 117682.

Sha X, et al. (2025) MCM9 deficiency impairs DNA damage repair during spermatogenesis, leading to Sertoli cell-only syndrome in humans. *Cell death discovery*, 11(1), 292.

Wang Y, et al. (2025) PALB2 and 53BP1 govern post-resection homologous recombination DNA repair. *Molecular cell*, 85(15), 2824.

Zhou F, et al. (2025) Stabilisation of PRCP by deubiquitinase-targeting chimera (DUBTAC) to replenish autophagy for ameliorating pathological cardiac hypertrophy. *British journal of pharmacology*.

Chen B, et al. (2025) A novel model of central precocious puberty disease: Paternal MKRN3 gene-modified rabbit. *Animal models and experimental medicine*, 8(3), 511.

Jiang X, et al. (2025) Deubiquitinase Ubiquitin-Specific Protease 29 Ameliorates Pathological Cardiac Hypertrophy through Inhibiting Transforming Growth Factor β -Activated Kinase 1. *Journal of the American Heart Association*, 14(6), e034962.

Pang Y, et al. (2025) Trim38 attenuates pressure overload-induced cardiac hypertrophy by suppressing the TAK1/JNK/P38 signaling pathway. *International journal of molecular medicine*, 55(6).

Wang Y, et al. (2024) Co-delivery of Cas9 mRNA and guide RNAs for editing of LGMN gene represses breast cancer cell metastasis. *Scientific reports*, 14(1), 8095.

Wan H, et al. (2024) RING finger protein 5 protects against acute myocardial infarction by inhibiting ASK1. *BMC cardiovascular disorders*, 24(1), 406.

Zhang M, et al. (2024) USP20 deubiquitinates and stabilizes the reticulophagy receptor RETREG1/FAM134B to drive reticulophagy. *Autophagy*, 20(8), 1780.

Peng H, et al. (2024) NR4A3 prevents diabetes induced atrial cardiomyopathy by maintaining mitochondrial energy metabolism and reducing oxidative stress. *EBioMedicine*, 106, 105268.

He J, et al. (2024) Plxnd1-mediated mechanosensing of blood flow controls the caliber of the Dorsal Aorta via the transcription factor Klf2. *bioRxiv : the preprint server for biology*.

Jiang L, et al. (2023) Lysosomal-associated protein transmembrane 5 ameliorates non-alcoholic steatohepatitis by promoting the degradation of CDC42 in mice. *Nature communications*, 14(1), 2654.

Ghanam AR, et al. (2023) Alternative transcribed 3' isoform of long non-coding RNA Malat1 inhibits mouse retinal oxidative stress. *iScience*, 26(1), 105740.

Niu H, et al. (2023) Scd1 Deficiency in Early Embryos Affects Blastocyst ICM Formation through RPs-Mdm2-p53 Pathway. *International journal of molecular sciences*, 24(2).

Sun Y, et al. (2023) DEF6(differentially exprehomolog) exacerbates pathological cardiac hypertrophy via RAC1. *Cell death & disease*, 14(7), 483.

Hu J, et al. (2023) Impaired bone strength and bone microstructure in a novel early-onset osteoporotic rat model with a clinically relevant PLS3 mutation. *eLife*, 12.

Yao X, et al. (2023) Tripartite motif 38 alleviates the pathological process of NAFLD-NASH by promoting TAB2 degradation. *Journal of lipid research*, 64(7), 100382.

Wu Y, et al. (2023) Fat mass and obesity-associated factor (FTO)-mediated N6-methyladenosine regulates spermatogenesis in an age-dependent manner. *The Journal of biological chemistry*, 299(6), 104783.

Mo X, et al. (2022) Interferon-gamma induces melanogenesis via post-translational regulation of tyrosinase. *Pigment cell & melanoma research*, 35(3), 342.