

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

pET21a-Streptavidin-Dead

RRID:Addgene_20859

Type: Plasmid

Proper Citation

RRID:Addgene_20859

Plasmid Information

URL: <http://www.addgene.org/20859>

Proper Citation: RRID:Addgene_20859

Insert Name: Streptavidin-Dead

Organism: E. Coli

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16554831](#)

Vector Backbone Description: Backbone Size:5443; Vector Backbone:pET21a; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Please email tinglab@gmail.com with intended use and/or targets for this plasmid.

Plasmid Name: pET21a-Streptavidin-Dead

Relevant Mutation: Triple mutant of wt Streptavidin N23A,S27D,S45A

Record Creation Time: 20220422T222053+0000

Record Last Update: 20260808T081404+0000

Ratings and Alerts

No rating or validation information has been found for pET21a-Streptavidin-Dead.

No alerts have been found for pET21a-Streptavidin-Dead.

Data and Source Information

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Heermann T, et al. (2021) Mass-sensitive particle tracking to elucidate the membrane-associated MinDE reaction cycle. *Nature methods*, 18(10), 1239.

Pożniak M, et al. (2021) Modular self-assembly system for development of oligomeric, highly internalizing and potent cytotoxic conjugates targeting fibroblast growth factor receptors. *Journal of biomedical science*, 28(1), 69.

Zhang B, et al. (2021) Probing Bioelectronic Connections Using Streptavidin Molecules with Modified Valency. *Journal of the American Chemical Society*, 143(37), 15139.

Denham EM, et al. (2019) A generic cell surface ligand system for studying cell-cell recognition. *PLoS biology*, 17(12), e3000549.

Bhola NE, et al. (2015) Kinome-wide functional screen identifies role of PLK1 in hormone-independent, ER-positive breast cancer. *Cancer research*, 75(2), 405.

Rios EJ, et al. (2015) FcγRI expression and dynamics on mast cells. *Methods in molecular biology* (Clifton, N.J.), 1220, 239.

Hartel AJ, et al. (2015) The molecular size of the extra-membrane domain influences the diffusion of the GPI-anchored VSG on the trypanosome plasma membrane. *Scientific reports*, 5, 10394.

Fairhead M, et al. (2014) Plug-and-play pairing via defined divalent streptavidins. *Journal of molecular biology*, 426(1), 199.

Lau PW, et al. (2012) DOLORS: versatile strategy for internal labeling and domain localization in electron microscopy. *Structure (London, England : 1993)*, 20(12), 1995.

Sun W, et al. (2012) Non-covalent ligand conjugation to biotinylated DNA nanoparticles using TAT peptide genetically fused to monovalent streptavidin. *Journal of drug targeting*, 20(8), 678.

Aldridge C, et al. (2012) The chloroplast twin arginine transport (Tat) component, Tha4, undergoes conformational changes leading to Tat protein transport. *The Journal of biological chemistry*, 287(41), 34752.