

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 10, 2026

pET21a-Streptavidin-Alive

RRID:Addgene_20860

Type: Plasmid

Proper Citation

RRID:Addgene_20860

Plasmid Information

URL: <http://www.addgene.org/20860>

Proper Citation: RRID:Addgene_20860

Insert Name: Streptavidin-Alive

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 your intended use or targets for this plasmid.

Plasmid Name: pET21a-Streptavidin-Alive

Relevant Mutation: Wt gene

Record Creation Time: 20220422T222053+0000

Record Last Update: 20260808T081404+0000

Ratings and Alerts

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

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

Data and Source Information

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Obozina AS, et al. (2026) Genetically encoded self-assembling affibody-streptavidin nanoparticles for HER2-positive cancer theranostics. *Journal of controlled release : official journal of the Controlled Release Society*, 392, 114679.

Tie HC, et al. (2025) Quantitative intra-Golgi transport and organization data suggest the stable compartment nature of the Golgi. *eLife*, 13.

Arimura Y, et al. (2025) MagIC-Cryo-EM, structural determination on magnetic beads for scarce macromolecules in heterogeneous samples. *eLife*, 13.

Arimura Y, et al. (2024) MagIC-Cryo-EM: Structural determination on magnetic beads for scarce macromolecules in heterogeneous samples. *bioRxiv : the preprint server for biology*.

Luther DC, et al. (2022) Cytosolic Protein Delivery Using Modular Biotin-Streptavidin Assembly of Nanocomposites. *ACS nano*, 16(5), 7323.

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

Po??niak 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.

Heermann T, et al. (2021) Probing Biomolecular Interactions by a Pattern-Forming Peptide-Conjugate Sensor. *Bioconjugate chemistry*, 32(1), 172.

Akhras S, et al. (2019) ZIKV Envelope Domain-Specific Antibodies: Production, Purification and Characterization. *Viruses*, 11(8).

Sobajima T, et al. (2018) The Rab11-binding protein RELCH/KIAA1468 controls intracellular cholesterol distribution. *The Journal of cell biology*, 217(5), 1777.

Tie HC, et al. (2018) The spatial separation of processing and transport functions to the interior and periphery of the Golgi stack. *eLife*, 7.

Akhras S, et al. (2017) Cell-permeable capsids as universal antigen carrier for the induction of an antigen-specific CD8+ T-cell response. *Scientific reports*, 7(1), 9630.

Sharma P, et al. (2017) Efficient intracellular delivery of biomacromolecules employing clusters of zinc oxide nanowires. *Nanoscale*, 9(40), 15371.

Wang H, et al. (2015) Reactivity and kinetics of vinyl sulfone-functionalized self-assembled monolayers for bioactive ligand immobilization. *Langmuir : the ACS journal of surfaces and colloids*, 31(11), 3413.

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.

Wurtzler EM, et al. (2014) A streptavidin-SOG chimera for all-optical immunoassays. *Biomacromolecules*, 15(1), 228.

Hess GT, et al. (2012) M13 bacteriophage display framework that allows sortase-mediated modification of surface-accessible phage proteins. *Bioconjugate chemistry*, 23(7), 1478.

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.