

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

sortase A pentamutant (eSrtA) in pET29

RRID:Addgene_75144

Type: Plasmid

Proper Citation

RRID:Addgene_75144

Plasmid Information

URL: <http://www.addgene.org/75144>

Proper Citation: RRID:Addgene_75144

Insert Name: sortase A pentamutant

Organism: Staphylococcus aureus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:21697512](#)

Vector Backbone Description: Backbone Marker:Novagen; Backbone Size:5370; Vector Backbone:pET29; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Comments: This plasmid has been found to be somewhat unstable and prone to multimerization. Multimerization often does not impact plasmid function, but may reduce transformation efficiencies. You may need to screen multiple colonies to isolate the monomeric version of this plasmid. If you still have trouble isolating the monomeric version, you might consider linearizing, gel extracting, re-ligating, and transforming the plasmid.

Plasmid Name: sortase A pentamutant (eSrtA) in pET29

Relevant Mutation: P94R, D160N, D165A, K190E, K196T. Deleted amino acids 1-59 (which do not affect catalytic activity).

Record Creation Time: 20220422T222457+0000

Record Last Update: 20260815T081943+0000

Ratings and Alerts

No rating or validation information has been found for sortase A pentamutant (eSrtA) in pET29.

No alerts have been found for sortase A pentamutant (eSrtA) in pET29.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 36 mentions in open access literature.

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

Apley KD, et al. (2025) Evaluation of proinsulin(F25D) as a targeting ligand for insulin-binding B cells in autoimmune diabetes. Drug delivery and translational research.

Dombrowsky CS, et al. (2025) Tumor-specific cytosol-penetrating antibodies for antigen- and TME-dependent intracellular cargo delivery. Molecular therapy. Oncology, 33(1), 200931.

Jain A, et al. (2025) Morphodynamics of human early brain organoid development. Nature, 644(8078), 1010.

Pavan MF, et al. (2025) Engineered Nanobodies for early and accurate diagnosis of dengue virus infection. PLoS neglected tropical diseases, 19(10), e0013168.

Pistofidis A, et al. (2025) Protein ligation for the assembly and study of nonribosomal peptide synthetase megaenzymes. RSC chemical biology, 6(4), 590.

Fahoum J, et al. (2025) Transfer of SARS-CoV-2 nucleocapsid protein to uninfected epithelial cells induces antibody-mediated complement deposition. Cell reports, 44(5), 115512.

Paloja K, et al. (2024) Balancing the Nanoscale Organization in Multivalent Materials for Functional Inhibition of the Programmed Death-1 Immune Checkpoint. ACS nano, 18(2), 1381.

Ivanova JR, et al. (2024) Designed Ankyrin Repeat Proteins as Actin Labels of Distinct Cytoskeletal Structures in Living Cells. ACS nano, 18(12), 8919.

Dombrowsky CS, et al. (2024) A Conditionally Activated Cytosol-Penetrating Antibody for TME-Dependent Intracellular Cargo Delivery. Antibodies (Basel, Switzerland), 13(2).

Gurumoorthy V, et al. (2023) Disordered Domain Shifts the Conformational Ensemble of the Folded Regulatory Domain of the Multidomain Oncoprotein c-Src. Biomacromolecules, 24(2), 714.

Obeng EM, et al. (2023) Sortase A transpeptidation produces seamless, unbranched biotinylated nanobodies for multivalent and multifunctional applications. *Nanoscale advances*, 5(8), 2251.

Singh AK, et al. (2023) Calcium-assisted sortase A cleavage of SUMOylated metallothionein constructs leads to high-yield production of human MT3. *Microbial cell factories*, 22(1), 125.

Lu?i? I, et al. (2023) CaMKII autophosphorylation can occur between holoenzymes without subunit exchange. *eLife*, 12.

Kramer DA, et al. (2023) The intrinsically disordered cytoplasmic tail of a dendrite branching receptor uses two distinct mechanisms to regulate the actin cytoskeleton. *eLife*, 12.

Mabrouk MT, et al. (2023) Circularized Nanodiscs for Multivalent Mosaic Display of SARS-CoV-2 Spike Protein Antigens. *Vaccines*, 11(11).

Benloucif A, et al. (2023) Rapid nanobody-based imaging of mesothelin expressing malignancies compatible with blocking therapeutic antibodies. *Frontiers in immunology*, 14, 1200652.

Obeng EM, et al. (2023) Steric-Deficient Oligoglycine Surrogates Facilitate Multivalent and Bifunctional Nanobody Synthesis via Combined Sortase A Transpeptidation and Click Chemistry. *Bioconjugate chemistry*, 34(9), 1667.

Bretherton RC, et al. (2023) User-Controlled 4D Biomaterial Degradation with Substrate-Selective Sortase Transpeptidases for Single-Cell Biology. *Advanced materials (Deerfield Beach, Fla.)*, 35(19), e2209904.

Peterson BG, et al. (2023) Deep mutational scanning highlights a role for cytosolic regions in Hrd1 function. *Cell reports*, 42(11), 113451.

Fagbadebo FO, et al. (2022) A Nanobody-Based Toolset to Monitor and Modify the Mitochondrial GTPase Miro1. *Frontiers in molecular biosciences*, 9, 835302.