

# Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

## pTSA-38

RRID:Addgene\_17328

Type: Plasmid

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### Proper Citation

RRID:Addgene\_17328

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### Plasmid Information

**URL:** <http://www.addgene.org/17328>

**Proper Citation:** RRID:Addgene\_17328

**Insert Name:** streptavidin

**Organism:** Streptomyces avidinii

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:7724536](#)

**Vector Backbone Description:** Backbone Marker:Novagen; Backbone Size:4600; Vector Backbone:pET-3a; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

**Comments:** pTSA-38 is a derivative of pTSA-13 with a W120F mutation. In brief, mpSA-29 was generated by inserting a 480-bp fragment of pTSA-13 carrying the entire coding sequence into M13mpl8. Oligonucleotide-directed in vitro mutagenesis was performed on mpSA-29 by using the 30-nt oligonucleotide, 5'-ACCAGCGTGGACTTGAAG-GCGTTGGCCTCG-3', to convert the TGG codon for Trp- 120 to TTC for Phe (mpSA-36). Then, a 405-bp fragment of mpSA-36 carrying the entire coding sequence was cloned into pET-3a. The resulting expression vector, pTSA-38, encodes a streptavidin W120F mutant.

**Plasmid Name:** pTSA-38

**Relevant Mutation:** Truncated to include only amino acids 16-133 of mature streptavidin. Trp-120 is replaced by Phe.

**Record Creation Time:** 20220422T222004+0000

**Record Last Update:** 20260815T081031+0000

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### Ratings and Alerts

No rating or validation information has been found for pTSA-38.

No alerts have been found for pTSA-38.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.