

Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

TPST2-EGFP

RRID:Addgene_66618

Type: Plasmid

Proper Citation

RRID:Addgene_66618

Plasmid Information

URL: <http://www.addgene.org/66618>

Proper Citation: RRID:Addgene_66618

Insert Name: TPST2

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:18522538](#)

Vector Backbone Description: Backbone Marker:Clontech; Vector Backbone:pEGFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Molecular cloning of TPST (tyrosylprotein sulfotransferase)–EGFP (enhanced green fluorescent protein) The TPST1 and TPST2 sequences were obtained from human ESTs (expressed sequence tags) from the RZPD (Deutsches Ressourcenzentrum für Genomforschung, Berlin, Germany; GenBank® accession numbers NM_003596 and AF061254 respectively). TPST1–EGFP and TPST2–EGFP were obtained by PCR using the following primers: plus strand, 5'-GGGGCTCGAGATGGTTGGAAAGCTGAAG-3', and minus strand, 5'-GGGGCTGCAGCTCCACTTGCTCAGTC-3' for TPST1; and plus strand, 5'-GGGGCTCGAGATGCGCCTGTCGGTGC-3', and minus strand, 5'-GGGGCTGCAGCGAGCTTCCTAAGTGG-3' for TPST2 (XhoI and PstI, restriction sites are underlined). PCR products were purified and ligated into the pGEM-T-Easy vector (Promega) following the manufacturer's instructions. Positive clones were digested with XhoI and PstI, and the fragments obtained were inserted in the corresponding sites of pEGFP-N1 (Clontech). All constructs were verified by double-strand DNA sequencing (MWG Biotech, Ebersburg, Germany). Two differences to the published sequence of TPST2 were identified (276C>T and 1002T>C, relative to the start codon), but neither of which affect the predicted protein sequence. Insert contains T370A relative to reference sequence. The depositing laboratory does not know the effect of this substitution on gene

function

Plasmid Name: TPST2-EGFP

Relevant Mutation: Insert contains T370A relative to NM_001008566.1

Record Creation Time: 20220422T222418+0000

Record Last Update: 20260808T082016+0000

Ratings and Alerts

No rating or validation information has been found for TPST2-EGFP.

No alerts have been found for TPST2-EGFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Allred CA, et al. (2023) Tumor-specific intracellular delivery: peptide-guided transport of a catalytic toxin. Communications biology, 6(1), 60.

Scurci I, et al. (2021) CCR5 tyrosine sulfation heterogeneity generates cell surface receptor subpopulations with different ligand binding properties. Biochimica et biophysica acta. General subjects, 1865(1), 129753.

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

Tie HC, et al. (2016) A novel imaging method for quantitative Golgi localization reveals differential intra-Golgi trafficking of secretory cargoes. Molecular biology of the cell, 27(5), 848.