

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

pBTR1

RRID:Addgene_22468

Type: Plasmid

Proper Citation

RRID:Addgene_22468

Plasmid Information

URL: <http://www.addgene.org/22468>

Proper Citation: RRID:Addgene_22468

Insert Name: cytochrome c

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:14680826](#)

Vector Backbone Description: Backbone Marker:PMID 9558351); Backbone Size:5279; Vector Backbone:pBCYC1; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: For an explanation of the cytochrome c expression system, see "Bacterial expression of a mitochondrial cytochrome c. Trimethylation of lys72 in yeast iso-1-cytochrome c and the alkaline conformational transition." by Pollock et al. PMID 9558351

Plasmid Name: pBTR1

Record Creation Time: 20220422T222100+0000

Record Last Update: 20260725T074433+0000

Ratings and Alerts

No rating or validation information has been found for pBTR1.

No alerts have been found for pBTR1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Casado-Combreras MÁ, et al. (2025) Protocols for monitoring condensate formation and dynamics between the phase-separating proteins SET/TAF-I? and cytochrome c. STAR protocols, 6(2), 103796.

Casado-Combreras MÁ, et al. (2024) Cytochrome c prompts the recruitment of its nuclear partners SET/TAF-I? and NPM1 into biomolecular condensates. iScience, 27(8), 110435.

Feng Y, et al. (2022) Naturally Occurring I81N Mutation in Human Cytochrome c Regulates Both Inherent Peroxidase Activity and Interactions with Neuroglobin. ACS omega, 7(13), 11510.

Samsri S, et al. (2022) Molecular insights on the conformational dynamics of a P76C mutant of human cytochrome c and the enhancement on its peroxidase activity. Archives of biochemistry and biophysics, 716, 109112.

Samsri S, et al. (2021) Influence of cysteine-directed mutations at the ?-loops on peroxidase activity of human cytochrome c. Archives of biochemistry and biophysics, 709, 108980.

Parashar A, et al. (2018) Murburn Concept: A Molecular Explanation for Hormetic and Idiosyncratic Dose Responses. Dose-response : a publication of International Hormesis Society, 16(2), 1559325818774421.

Saxena M, et al. (2015) Purification and characterization of a cytochrome c with novel caspase-3 activation activity from the pathogenic fungus Rhizopus arrhizus. BMC biochemistry, 16, 21.