

Resource Summary Report

Generated by [kravitz2](#) on Jul 30, 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

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.