

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pET24b-APEX2

RRID:Addgene_111702

Type: Plasmid

Proper Citation

RRID:Addgene_111702

Plasmid Information

URL: <http://www.addgene.org/111702>

Proper Citation: RRID:Addgene_111702

Insert Name: APEX2

Organism: Other

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:29708735](#)

Vector Backbone Description: Backbone Marker:Novagen; Vector Backbone:pET24b; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Comments: This plasmid is for IPTG-inducible expression of APEX2 in the E. coli cytoplasm. The APEX gene was subcloned from pcDNA3-mito-APEX and subsequently mutated by site-directed mutagenesis to generate the optimized variant APEX2. See also references: Rhee HW, Zou P, Udeshi ND, Martell JD, Mootha VK, Carr SA, Ting AY. Proteomic mapping of mitochondria in living cells via spatially restricted enzymatic tagging. Science. 2013;339(6125):1328-31. PMCID: 3916822. Lam SS, Martell JD, Kamer KJ, Deerinck TJ, Ellisman MH, Mootha VK, Ting AY. Directed evolution of APEX2 for electron microscopy and proximity labeling. Nat Methods. 2015;12(1):51-4. PMCID: 4296904

Plasmid Name: pET24b-APEX2

Record Creation Time: 20220422T221544+0000

Record Last Update: 20260815T080153+0000

Ratings and Alerts

No rating or validation information has been found for pET24b-APEX2.

No alerts have been found for pET24b-APEX2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Norouzi M, et al. (2025) An adaptable genomic-proteomic approach to characterize cell-surface Vimentin's membrane topology and interactome. *Biochemistry and biophysics reports*, 44, 102242.

Norouzi M, et al. (2023) Cell-Free Dot Blot: an Ultra-Low-Cost and Practical Immunoassay Platform for Detection of Anti-SARS-CoV-2 Antibodies in Human and Animal Sera. *Microbiology spectrum*, 11(2), e0245722.

Norouzi M, et al. (2021) High-Efficiency Protection of Linear DNA in Cell-Free Extracts from *Escherichia coli* and *Vibrio natriegens*. *ACS synthetic biology*, 10(7), 1615.