

Resource Summary Report

Generated by [nidm-terms](#) on Aug 16, 2026

pDR-GW AT1.03YEMK

RRID:Addgene_28004

Type: Plasmid

Proper Citation

RRID:Addgene_28004

Plasmid Information

URL: <http://www.addgene.org/28004>

Proper Citation: RRID:Addgene_28004

Insert Name: AT1.03YEMK

Organism: B. Subtilis

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:20854260](#)

Vector Backbone Description: Backbone Size:6866; Vector Backbone:pDRf1GW-ura3; Vector Types:Yeast Expression; Bacterial Resistance:Ampicillin

Comments: AT1.03 is composed of mseCFPdeltaC11, in which 11 C-terminal amino acids were truncated, Bacillus subtilis F0F1 ATP synthase subunit epsilon with V9T/V42K/F67T/L78T mutations, and cp173-mVenus.

Plasmid Name: pDR-GW AT1.03YEMK

Relevant Mutation: M60Y, G131E, K132M, 133K

Record Creation Time: 20220422T222126+0000

Record Last Update: 20260815T081309+0000

Ratings and Alerts

No rating or validation information has been found for pDR-GW AT1.03YEMK.

No alerts have been found for pDR-GW AT1.03YEMK.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Farid KMN, et al. (2025) MGlu5 Dependent Mitochondrial Translocation of PKC?: A Mechanism Raising Astrocytic Oxidative Metabolism in Response to Extracellular Glutamate. *Journal of neurochemistry*, 169(8), e70163.

Call DH, et al. (2024) A multiplexed high throughput screening assay using flow cytometry identifies glycolytic molecular probes in bloodstream form *Trypanosoma brucei*. *International journal for parasitology. Drugs and drug resistance*, 26, 100557.

Köhler S, et al. (2020) A Dual Nanosensor Approach to Determine the Cytosolic Concentration of ATP in Astrocytes. *Frontiers in cellular neuroscience*, 14, 565921.

Persson LB, et al. (2020) Cellular Control of Viscosity Counters Changes in Temperature and Energy Availability. *Cell*, 183(6), 1572.

Lerchundi R, et al. (2019) FRET-based imaging of intracellular ATP in organotypic brain slices. *Journal of neuroscience research*, 97(8), 933.

Winkler U, et al. (2017) Activity-dependent modulation of intracellular ATP in cultured cortical astrocytes. *Journal of neuroscience research*, 95(11), 2172.

Trevisiol A, et al. (2017) Monitoring ATP dynamics in electrically active white matter tracts. *eLife*, 6.

Lange SC, et al. (2015) Dynamic Changes in Cytosolic ATP Levels in Cultured Glutamatergic Neurons During NMDA-Induced Synaptic Activity Supported by Glucose or Lactate. *Neurochemical research*, 40(12), 2517.