

Datasheet for ABIN5456282

Human PDK1 ORF Clone in Lentiviral Vector (GFP tag)

Overview

Quantity:	10 µg
Gene:	PDK1
Species:	Human
Fusion tag:	GFP tag
Insert:	ORF
Vector:	Lentiviral Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Lentiviral Vector with ORF clone of Human pyruvate dehydrogenase kinase, isozyme 1 (PDK1), C-term GFP tagged
Brand:	LentiORF
Insert Length:	1311 bp
Vector Backbone:	pLenti-C-mGFP
Promoter:	CMV Promoter
Bacterial Resistance:	Chloramphenicol
Expression Type:	Transient
Specificity:	Restriction Site: SgfI-MluI
Characteristics:	<p>mGFP tagged, C-terminal</p> <p>Broad cell spectrum: Lentivirus infect most cells, dividing & non-dividing, easy-to-transfect & hard-to-transfect cells.</p> <p>High transduction efficiency</p> <p>Convenience: Minimal need for optimization.</p>

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Product Details

Safety: 3rd generation system with improved biosafety.

Components: 10 µg of lyophilized plasmid

Target Details

Gene: PDK1

Abstract: [PDK1 Products](#)

Background: Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene.

NCBI Accession: [NM_002610](#), [NP_002601](#)

Application Details

Application Notes: Ideal For Tracking the over-expressed protein in transfected cells

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: 4 °C/-20 °C

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)