

Product datasheet for RC205292L4

PDE1A (NM_005019) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PDE1A (NM_005019) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: PDE1A

Synonyms: CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205292).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_005019

ORF Size: 1635 bp



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



PDE1A (NM_005019) Human Tagged Lenti ORF Clone - RC205292L4

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

> reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube Components:

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

1. Centrifuge at 5,000xg for 5min. **Reconstitution Method:**

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: NM 005019.3

RefSeq Size: 4918 bp RefSeq ORF: 1638 bp Locus ID: 5136 **UniProt ID:** P54750

Cytogenetics: 2q32.1 Domains: **PDEase**

Protein Families:

Protein Pathways: Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism,

Taste transduction

Druggable Genome

MW: 62.3 kDa

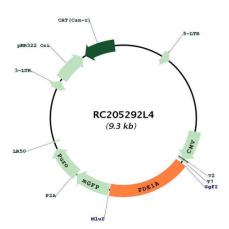
Gene Summary: Cyclic nucleotide phosphodiesterases (PDEs) play a role in signal transduction by regulating

> intracellular cyclic nucleotide concentrations through hydrolysis of cAMP and/or cGMP to their respective nucleoside 5-prime monophosphates. Members of the PDE1 family, such as PDE1A, are Ca(2+)/calmodulin (see CALM1; MIM 114180)-dependent PDEs (CaM-PDEs) that are activated by calmodulin in the presence of Ca(2+) (Michibata et al., 2001 [PubMed 11342109];

Fidock et al., 2002 [PubMed 11747989]).[supplied by OMIM, Oct 2009]



Product images:



Circular map for RC205292L4