

Product datasheet for RC200445L4

OriGene Technologies, Inc.

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PDE6 beta (PDE6B) (NM_000283) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PDE6 beta (PDE6B) (NM_000283) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: PDE6 beta

Synonyms: CSNB3; CSNBAD2; GMP-PDEbeta; PDEB; rd1; RP40

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(RC200445).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000283

ORF Size: 2559 bp





PDE6 beta (PDE6B) (NM_000283) Human Tagged Lenti ORF Clone - RC200445L4

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.

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

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

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

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: <u>NM 000283.2</u>

 RefSeq Size:
 3414 bp

 RefSeq ORF:
 2565 bp

 Locus ID:
 5158

 UniProt ID:
 P35913

Cytogenetics: 4p16.3

Domains: PDEase, GAF, HDc

Protein Families: Druggable Genome

MW: 98.2 kDa

Gene Summary: Photon absorption triggers a signaling cascade in rod photoreceptors that activates cGMP

phosphodiesterase (PDE), resulting in the rapid hydrolysis of cGMP, closure of cGMP-gated

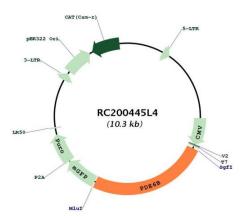
cation channels, and hyperpolarization of the cell. PDE is a peripheral membrane

heterotrimeric enzyme made up of alpha, beta, and gamma subunits. This gene encodes the beta subunit. Mutations in this gene result in retinitis pigmentosa and autosomal dominant congenital stationary night blindness. Multiple transcript variants encoding different isoforms

have been found for this gene. [provided by RefSeq, Feb 2009]



Product images:



Circular map for RC200445L4