

Product datasheet for **RC200445**

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

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE6 beta (PDE6B) (NM_000283) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE6 beta
Synonyms:	CSNB3; CSNBAD2; GMP-PDEbeta; PDEB; rd1; RP40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC200445 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

 ATGAGCCTCAGTGAGGAGCAGGCCCGAGCTTTCTGGACCAGAACCCCGATTTTGCCCGCCAGTACTTTG
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Protein Sequence: >RC200445 protein sequence
 Red=Cloning site Green=Tags(s)

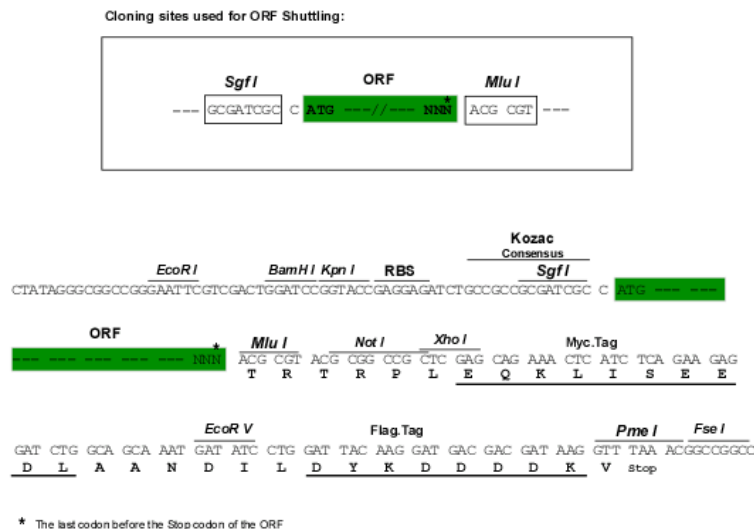
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Chromatograms: https://cdn.origene.com/chromatograms/mk6156_c11.zip

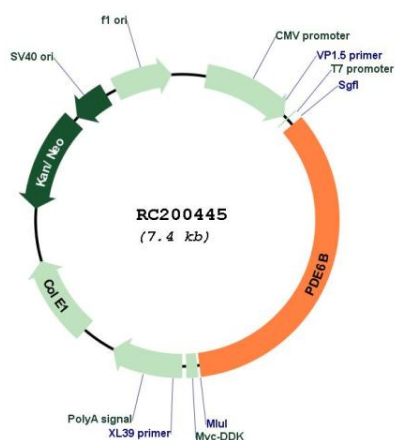
Restriction Sites: SgfI-MluI

Cloning Scheme:

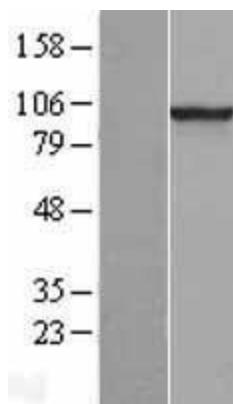


ACCN:	NM_000283
ORF Size:	2559 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000283.4
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 RC200445



Western blot validation of overexpression lysate (Cat# [LY400109]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200445 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).