

Product datasheet for **SC120018**

PDE6 beta (PDE6B) (NM_000283) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE6 beta (PDE6B) (NM_000283) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE6 beta
Synonyms:	CSNB3; CSNBAD2; GMP-PDEbeta; PDEB; rd1; RP40
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120018 sequence for NM_000283 edited (data generated by NextGen Sequencing)

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ATGAGCCTCAGTGAGGAGCAGGCCCGGAGCTTTCTGGACCAGAACCCCGATTTTGCCCGC
CAGTACTTTGGGAAGAACTGAGCCCTGAGAATGTGGCCGCGCCTGCGAGGACGGGTGC
CCGCCGGACTGCGACAGCCTCCGGGACCTCTGCCAGGTGGAGGAGACACGGCGTGTG
GAGCTGGTGCAGGATATGCAGGAGAGCATCAACATGGAGCGCTGGTCTTCAAGTCTCTG
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AACGGCGTGGCCGAGCTGGCCACCAGGCTTTTCAGCGTGCAGCCGACAGCGTCCCTGGAG
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CACGGCTTCAACGTGGCCAGACGATGTTACGCTGCTCATGACCGGCAAACCTGAAGAGC
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CACCGCGGACCAACAACCTGTACCAGATGAAGTCCCAGAACCCCTTGGCTAAGTCCAC
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ACCCTGAACATCTACCAGAACCTGAACCGGCGGCAGCAGATCACGTGATCCACCTGATG
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AAGATCGTGGATGAGTCCAAGAAGTACCAGGACAAGAAGAGCTGGGTGGAGTACCTGTCC
CTGGAGACGACCCGGAAGGAGATCGTATGGCCATGATGATGACAGCCTGCGACCTGTCT
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TGGGAGCAAGGTGACTTGGAAAGGACAGTCTTGGATCAGCAGCCATTCTATGATGGAC
CGGAACAAGGCGCCGAGCTCCCAAGTGAAGTGGGCTTTCATCGACTTCTGTGTCACA
TTCGTGTACAAGGAGTCTCTCGTTTCCACGAAGAGATCCTGCCATGTTTCGACCGACTG
CAGAACAATAGGAAAGAGTGGAAAGGCGCTGGCTGATGAGTATGAGGCCAAAGTGAAGGCT
CTGAGGAGAAGGAGGAGGAGGAGGGTGGCAGCCAAGAAANNAGGCACAGAAATTTGC
AATGGCGGCCAGCACCAAGTCTTCAACCTGCTGTATCTCTGTGA

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Clone variation with respect to NM_000283.3
 1962 g=>t;2503 g=>n;2504 t=>n

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000283 unedited GCCGCNCCTTGGTTTNTTTAAACGATTCATATAGGCGGCGCGCAATTCGCACGAGGTGC GTGCCTGGCACAGCAGCGTCTCCAGGGCAGGCAGCCACCATGAGCCTCAGTGAGGAGCAG GCCCGGAGCTTTCTGGACCAGAACCCCGATTTTGCCCGCCAGTACTTTGGGAAGAACTG AGCCCTGAGAATGTGGCCGCGGCTGCGAGGACGGGTGCCCGCCGACTGCGACAGCCTC CGGGACCTCTGCCAGGTGAGGAGAGCAGGCGCTGCTGGAGCTGGTGCAGGATATGCAG GAGAGCATCAACATGGAGCGCGTGGTCTTCAAGTCTCTGCGGCGCCTCTGCACCCTCTG CAGGCCGACCGCTGCAGCCTCTTCATGTACCGCCAGCGCAACGGCGTGGCCGAGCTGGCC ACCAGGCTTTTCAGCGTGCAGCCGGACAGCGTCTTGAGGACTGCCTGGTGCCCCCGAC TCCGAGATCGTCTTCCACTGGACATCGGGTCTGTTGGCCACGTGGCTCAGACCAAAAAG ATGGTGAACGTCGAGGACGTGGCCGAGTGCCCTCACTTCAGCTCATTTGCTGACGAGCTC ACTGACTACAAGACAAAGAATATGCTGGCCACACCCATCATGAATGGCAAAGACGTCGTG GCGGTGATCATGGCAGTGAACAAGCTCAACGGCCATTCTTACCAGCGAAGACGAAGAT GTGTTCTTGAAGTACCTGAATTTTGCCACGTTGTACCTGGAGATCTATCACCTGAGCTAC CTNCACAACTGCGAGACGCGCCGCGCCAGTGTGCTGTGGGTGCCAACAAAGGTGTTT TGAGAGCTGACGGACATCGAGAGGCAGTCCACAGGCCTTCTACACGGTG
Restriction Sites:	Please inquire
ACCN:	NM_000283
Insert Size:	3500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_000283.1</u> , <u>NP_000274.1</u>
RefSeq Size:	3231 bp
RefSeq ORF:	2565 bp
Locus ID:	5158
UniProt ID:	<u>P35913</u>
Cytogenetics:	4p16.3
Domains:	PDEase, GAF, HDc
Protein Families:	Druggable Genome

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).