

Product datasheet for **SC106083**

PDE6 beta (PDE6B) (BC020343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE6 beta (PDE6B) (BC020343) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE6 beta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC020343, the custom clone sequence may differ by one or more nucleotides

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CAGGGGGTTTCAGGAGCGGAGGAGCCAGGGCGTGGGTTGGAGGACGGCTGTGCTGCCTTCTCTCCTCC
CCAGGCTGCCGTGCTGGGGCCCCCTCCCTCTTGGGAACCCCTCCCTCTCCGGAGGCCGATGGCTTCAGCC
TGCTTTCTAGGACTCAGCGTTGGTGCCTGCCCTGCCACCTGACCCTGACTTGTGCTCAAGCCTGGCACC
TGGATCCTGGTTCCTGCTGGGGCTGGGGATGGGGTCCCAATAGGCTTATGGGATCACAGGGCCACTGG
GCCACCAGCTGCCCTCCCTTGGCTGGAGTCTGCCCTGACCTCCGGACTGGAGTCCCCCTCCTCTTCCA
GCCCCACGGGGCCAAGACTCGGCCTCCTGGCTGGAGCTCCACTGTCTGGGTGGGGCTGGTGGTGCCAGG
GTCAAATCCTGGGGCCTTCATGCTCAATTGTTGCTGACGAGGCCCGCTGGACAGCTTGCTGGTCCCTG
TATGTCCACTCTGGATGTCCACAGTGACTCGGGCTCCTCAGCAGCCACGCTCCTCCTCACCATCTCCCAG
AACATTGGAGTCAGGAAACAGAGGCGTGTGGACAGGCCCTGGGCCCTCCCTAAGACTCACCCGGCCA
TCAGGCGTGCGTGGGCCGAGTACGGCTGGGACTCTCCCATCAGCACAGACCACAGTCAAAAAATTCT
GGGCAGAGAAGAGGAGGCCACGGAGTACCGCTCGCAGTTGAGGTAGGCCCGCACCGTGTAGAAGGCCTT
GTGGAAGTGCCTCTCGATGTCCGTGAGTCTCCTCAACACCTTGTGGCCGACCACAGCAGCAGCGGTTA
GAGGGGCACACCTGTGGGCTGTGGCCACTCCACCTCACGCCGGTCTGACCACAGCAGCAGGGGTTA
ACTCAAGCCTGACACAGGTTTCATCTGAGCTTGTGGGGCCGGGAGCTGGCTGGCGGTGAGGCTCGAGG
CTGCGGTGCTCCCTGATCACTCAGGAGTGGACGAGTGGAAAGTGAATCTGTGCTTTGAGCTTGACA
GGCAAACATCCGACCAGCCCTTCCCTCCGCCGGCTGCTCCAGAACCACCTGCGGGCAGCAGGGCTTTGAG
AACATCGGGCCGTGGTTTCCGCACGTGAGGCCCTGTGGCTCCGCCAAGCGTCTGAGAGTGAAGCATT
GCTGACGCACTCCACGAGGCTCTGGCCAGACCCACTCAGGACATCCCGCTGCACAGGCCCTGGTTGCT
GGGTCAGCGCTGCCACCAGGCTCAGACTCACCCAGGGCCCTCCTTGGGCCACCTTTCTCTGCTCCTTG
GTCAAGGCCAGACCCAGGCCACCAGGCCCTGCCTCCTCACACTCGCGGCGGCCG
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC020343 unedited TCACAATTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCCCTGCCACCCT GACCCTGACTTGTGCTCAAGCCTGGCACCTGGATCCTGGTTCCCTGCTTGGGGCCTGGGGA TGGGGTCCCAATAGGCTTATGGGATCACAGGGCCACTGGGCCACCAGCTGCCCTCCCTT GGCTGGAGTCTGCCCTGACCTCCGACTGGAGTCCCCCTCTTCCAGCCCCACGGGG CCAAGACTCGGCCTCCTGGCTGGAGCTCACTGTCTGGGTGGGGCTGGTGGTCCAGGG TCAAATCCTGGGGCCTTCATGCTCAATTGTTGCTGACGAGGCCGCTGGACAGCTTGCCT GGTCCTGTATGTCCACTCTGGATGTCCACAGTACTCGGGCTCCTCAGCAGCCACGT CCTCTCACCATCTCCAGAACAGAGGCCACGGAGTACCGCTCGCAGTTGAGGTAGGCC CGCACCGTGTAGAAGGCCTTGTGGAAGTGCCTCTCGATGTCCGTGAGCTCCTCAAACACC TTGTTGGCCGACCACAGCAGCACCTGGAGGGAGGGGCACACCTGTGGCCTGTGNGCCAC TCCACCCTCAGCCGGTCTGACCACAGCAGCAGNGTTTAACTCAAGCCTGACACANGTG CGTTTCTGATCTGACCACCTGCCAGCCGTGGAGCCTGGCACAGACCCTGATTGGTGGC TCCGTGGCCAGGTTTCATCTGAGCTTGTGGGGCCCGGAGCCTGCCTGCGGTGAGGCCCT CCAGCTGCNGTCGTGTCCTGACACTCANGAGTGTACCAGTGAAAGATGAATCTGTCGC TTTGAGCTTGACAGGNAACATTCGACCAGNCCTTCTTCGCCCGNTGTTTCAGAACCAC CTGCGGGAGCAGGGCTTTGAGAAGTTCGGCCCGTGTTCGCCCGTCAAGCCCCCTGTTG GCTCGC
Restriction Sites:	NotI-NotI
ACCN:	BC020343
Insert Size:	1950 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:	BC020343.1
RefSeq Size:	1411 bp
RefSeq ORF:	1098 bp
Locus ID:	5158
Cytogenetics:	4p16.3
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]