

Product datasheet for **SC325205**

PDE6 beta (PDE6B) (NM_001145292) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE6 beta (PDE6B) (NM_001145292) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE6B
Synonyms:	CSNB3; CSNBAD2; GMP-PDEbeta; PDEB; rd1; RP40
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001145292, the custom clone sequence may differ by one or more nucleotides

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ATGACCAAGGAGAAGGAATTTTTGACGTGTGGTCTGTGCTGATGGGAGAGTCCCAGCCG
TACTCGGGCCACGCACGCCTGATGGCCGGAAATTGTCTTCTACAAAGTGATCGACTAC
ATCCTCCACGGCAAGGAGGAGATCAAGGTCATCCACACCCCTCAGCCGATCACTGGGCC
CTGGCCAGCGCCTTCCAAGCTACGTGGCAGAAAGCGGCTTTATTTGTAACATCATGAAT
GCTTCCGCTGACGAAATGTTCAAATTTCAAGGAAGGGCCCTGGACGACTCCGGGTGGCTC
ATCAAGAATGTGCTGTCCATGCCATCGTCAACAAGAAGGAGGAGATTGTGGGAGTCGCC
ACATTTTACAACAGGAAAGACGGGAAGCCCTTTGACGAACAGGACGAGGTTCTCATGGAG
TCCTTGACACAGTTCCTGGGCTGGTCAGTGATGAACACCGACACCTACGACAAGATGAAC
AAGCTGGAGAACCGCAAGGACATCGCACAGGACATGGTCCTTTACCACGTGAAGTGCGAC
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TGCGATGAGGACGAGCTGGGCGAAATCCTGAAGGAGGAGCTGCCAGGGCCACCACATTT
GACATCTACGAATTCACCTTCTCTGACCTGGAGTGCACCGAACTGGACCTGGTCAAATGT
GGCATCCAGATGTACTACGAGCTGGGCGTGGTCCGAAAGTTCCAGATCCCCCAGGAGGTC
CTGGTGGGTTTCTGTTCTCCATCAGCAAAGGGTACCGGAGAATCACCTACCACAACCTGG
CGCCACGGCTTCAACGTGGCCAGACGATGTTACGCTGCTCATGACCGGCAAACCTGAAG
AGCTACTACACGGACCTGGAGGCCTTCGCCATGGTGACAGCCGGCCTGTGCCATGACATC
GACCACCGCGGCACCAACAACCTGTACCAGATGAAGTCCCAGAACCCTTGGCTAAGCTC
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GAGACCTGAACATCTACCAGAACCTGAACCGCGCGCAGCAGCAGCAGTATCCACCTG
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CAGAAGATCGTGGATGAGTCCAAGAACTACCAGGACAAGAAGAGCTGGGTGGAGTACCTG
TCCCTGGAGACGACCCGGAAGGAGATCGTCATGGCCATGATGATGACAGCCTGCGACCTG
TCTGCCATCACCAGCCCTGGGAAGTCCAGAGCAAGGTGCGACTTCTCGTGGCTGCTGAG
TTCTGGGAGCAAGGTGACTTGGAAAGGACAGTCTTGGATCAGCAGCCATTCTCATGATG
GACCGGAACAAGGCGGCCGAGCTCCCCAAGCTGCAAGTGGGCTTCATCGACTTCTGTGTC
ACATTCGTGTACAAGGAGTTCTCTCGTTTCCACGAAGAGATCCTGCCATGTTTCGACCGA
CTGCAGAACAAATAGGAAAGAGTGGAAAGGCGCTGGCTGATGAGTATGAGGCCAAAGTGAAG
GCTCTGGAGGAGAAGGAGGAGGAGAGGGTGGCAGCCAAGAAAGTAGGCACAGAAATT
TGCAATGGCGGCCAGCACCCAAGTCTTCAACCTGCTGTATCCTG

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Restriction Sites:	Please inquire
ACCN:	NM_001145292
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001145292.1</u> , <u>NP_001138764.1</u>
RefSeq Size:	2793 bp
RefSeq ORF:	1728 bp
Locus ID:	5158
UniProt ID:	<u>P35913</u>
Cytogenetics:	4p16.3
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) represents use of an alternate promoter and 5' UTR, and uses a downstream start codon, compared to variant 1. The resulting isoform (3) has a substantially shorter N-terminus, compared to isoform 1.</p>