

## Product datasheet for **SC302893**

### **PDE4 (PDE4B) (NM\_001037339) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE4 (PDE4B) (NM_001037339) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE4
Synonyms:	DPDE4; PDEIVB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>Fully Sequenced ORF:</b>	>OriGene ORF sequence for NM_001037339 edited ATGAAGGAGCACGGGGGCACCTTCAGTAGCACCGGAATCAGCGGTGGTAGCGGTGACTCT GCTATGGACAGCCTGCAGCCGCTCCAGCCTAACTACATGCCTGTGTGTTGTTTGAGAA GAATCTTATCAAAAATTAGCAATGGAAACGCTGGAGGAATTAGACTGGTGTTTAGACCAG CTAGAGACCATACAGACCTACCGGTCTGTCAGTGAGATGGCTTCTAACAGTTCAAAGA ATGCTGAACCGGGAGCTGACACACCTCTCAGAGATGAGCCGATCAGGGAACCAAGTGTCT GAATACATTTCAAATACTTTCTTAGACAAGCAGAATGATGTGGAGATCCCATCTCTACC CAGAAAGACAGGGAGAAAAGAAAAGCAGCAGCTCATGACCCAGATAAGTGGAGTGAAG AAATTAATGCATAGTTCAAGCCTAAACAATACAAGCATCTCACGCTTTGGAGTCAACACT GAAAATGAAGTACCTGGCCAAGGAGCTGGAAGACCTGAACAAATGGGGTCTTAACATC TTTAATGTGGCTGGATATTCTACAATAGACCCCTAACATGCATCATGTATGCTATATTC CAGGAAAGAGACCTCCTAAAGACATTGAGAAATCTCATCTGACACATTTATAACCTACATG ATGACTTTAGAAGACCATTACCATTCTGACGTGGCATATCACAACAGCCTGCACGCTGCT GATGTAGCCAGTCGACCATGTTCTCCTTTCTACACCAGCATTAGACGCTGCTTCCACA GATTTGGAGATCCTGGCTGCCATTTTTGCAGCTGCCATCCATGACGTTGATCATCTGGA GTCTCCAATCAGTTTCTCATCAACACAAATTCAGAACTTGCTTTGATGATAATGATGAA TCTGTGTTGAAAATCATCACCTTGCTGTGGGTTTCAAACCTGCTGCAAGAAGAACACTGT GACATCTTCATGAATCTCACAAGAAGCAGCGTCAGACACTCAGGAAGATGGTTATTGAC ATGGTGTAGCAACTGATATGCTAAACATATGAGCCTGCTGGCAGACCTGAAGCAATG GTAGAAACGAAGAAAGTTACAAGTTCAGGCGTTCTTCTCCTAGACAACCTATACCGATCGC ATTCAGGTCCTTCGCAACATGGTACACTGTGCAGACCTGAGCAACCCACCAAGTCTTG GAATTGTATCGGCAATGGACAGACCGCATCATGGAGGAATTTTCCAGCAGGGAGACAAA GAGCGGGAGAGGGGAATGAAAATTAGCCCAATGTGTGATAAACACACAGCTTCTGTGGAA AAATCCCAGGTTGGTTTCATCGACTACATTGTCCATCCATTGTGGGAGACATGGGCAGAT TTGGTACAGCCTGATGCTCAGGACATTCTCGATACCTTAGAAGATAACAGGAACTGGTAT CAGAGCATGATACCTCAAAGTCCCTCACCACCTGGACGAGCAGAACAGGGACTGCCAG GGTCTGATGGAGAAGTTTCAGTTTGAAGTACTCTCGATGAGGAAGATTCTGAAGACCT GAGAAGGAGGGAGAGGGACAGCTATTTAGCAGCACAAGACGCTTTGTGTGATTGAT CCAGAAAACAGAGATTCCTGGGAGAGACTGACATAGACATTGCAACAGAAGACAAGTCC CCCGTGGATACATAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001037339
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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:** [NM\\_001037339.1](#), [NP\\_001032416.1](#)

**RefSeq Size:** 3882 bp

**RefSeq ORF:** 1695 bp

**Locus ID:** 5142

**UniProt ID:** [Q07343](#)

**Cytogenetics:** 1p31.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

**Gene Summary:** This gene is a member of the type IV, cyclic AMP (cAMP)-specific, cyclic nucleotide phosphodiesterase (PDE) family. The encoded protein regulates the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. Altered activity of this protein has been associated with schizophrenia and bipolar affective disorder. Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (b) differs in the 5' UTR and lacks a portion of the 5' coding region, compared to variant a. It represents use of an alternate promoter and initiates translation at an alternate start codon. The encoded isoform (2, also known as PDE4B2 or PDE32) has a shorter and distinct N-terminus when compared to isoform 1.