

Product datasheet for **SC101955**

PDE4 (PDE4B) (AK000989) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4 (PDE4B) (AK000989) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE4B
Synonyms:	DPDE4; PDEIVB
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AK000989, the custom clone sequence may differ by one or more nucleotides

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TAATGCAACTAAAATGTTCTCGGGTTTAGTACCAAGCGTACTAGTATGAGAGGCATGAGATGTTCCGGCA
GTATTTACACCTAATTTTATGAGATTTCCAAAACCTTGATGATTTCCAGTCCCTCGCAACATGGTACACTG
TGCAGACCTGAGCAACCCACCAAGTCTTGGAAATGATCGGCAATGGACAGACCCGCATCATGGAGGAA
TTTTTCCAGCAGGGAGACAAAGAGCGGGAGAGGGGAATGGAAATTAGCCCAATGTGTGATAAACACACAG
CTTCTGTGGAAAAATCCCAGGTATCTAATATGAGATTTTCAAAGTTTTTGTGAGCTCTGCTGATTATAGA
GCTGGAGGGTTCTATTTAATCCGTTTTTCCAATAGAATATGTATATATGAAACAATAAGGAGACAACCTA
CGCATTTTGTCCATTATAGTCAGGACTCATGCGACTTCTCCATTACACTCAGTTTCACAGGGTGGGGAA
AAGTAGTCATCAGAAACCCATCAAAATTTGGACTATGTGTCCCTAAATCATTTAGATAGTTGTCTCTGAT
GTTAGCAAATCCAGCTGAATAATATGAACATCAGTGTCTCCTCCATCCCAACCCTCTGGATTTCTCCTAG
CTCTGTCTTCATTCAAGAACTCTACTCCTCATCCTTGCTTCCAGCCCTCTGTTTTATCTTCTGTCTTCA
ATCAAGCCCATGGTGACCATCACCAGAGGCAGTCTCTTTACTGCATAGTCAAAGCCCTGTCTTGTCTTC
CCTCCCAAGGATGCTTCTATGCTTTTGAGAATGCTGACATTTTCTGGTTGTGTCCAAAGCAACACATT
CTGTGTGTGCTCAGGACAGGGGACAATAGTCTGGAGGGTGAATACAGAAATGTCAGATGCCAATAGCT
GCAGAATATGCAGCAATGGAAAGTATCAGTATCCATACAAGATTTTCAAGAAAACGAATGGGCTGAGC
CAAGTAGCTGAGATTGAGAATGAGTTCATAGACTGTCCAAGATCTTTATCCCAAAAAACATTTGGATTGTT
TATTTTTCAGTATTTATCCTCTTTCCCTACTACCTGGATACTCCAATTTGCATATACTTGTAAATATTAAT
ATACAGTTCCTTTGCAATATTTATTTTGTGCTTCTTAGAGAAACCCAACTAAATGAGTTTAAAAAATCT
GTGAAAGGGCTGGGCACAGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGCTGAGGTGGACGGATCAC
CTGAGGTCAGGAGTTCAAACCAGCCTGGCCAACATGGTGAACCCTGTCTTACAAAAACACACAAAA
AATTGGTCGAGCATGGTAGTGTGCTGTAGTCCCAGCTACTCGGAAGCTGAGACAGGAAAATGCTT
GAACCCAGGAGGGGACGTTGCAGTGAGCTGAGATTGTGCCACTGCATTCCAGCCTGGGCAACAGAGCAA
GACTCTATCTC
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK000989 unedited NGGTTTCACATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACGCAGGAAGCAGC GTCAGACACTCAGGAAGAGGTTATTGACATGGTGTAGCAACTGATATGTCTAAACATAT GAGCCTGCTGGCAGACCTGAAGACAATGGTAGAAACGAAGAAAGTTACAAGTTCCAGGCGT TCTTCTCTAGACAACATACCGATCGCATTAGGTCCTTCGCAACATGGTACACTGTGC AGACCTGAGCAACCCACCAAGTCCTTGAATTGTATCGGCAATGGACAGACCCGATCAT GGAGGAATTTTTCCAGCAGGGAGACAAAGAGCGGGAGAGGGGAATGGAATTTAGCCCAAT GTGTGATAAACACACAGCTTCTGTGAAAAATCCAGGTTGGTTTCATCGACTACATTGT CCATCCATTGTGGGAGACATGGGAGATTTGGTACAGCCTGATGCTCAGGACATTCTCGA TACCTTAGAAGATAACAGGAAGTGGTATCAGAGCATGATACCTCAAAGTCCCTCACCACC ACTGGACGAGCAGAACAGGGACTGCCAGGGTCTGATGGAGAAGTTTCAGTTTGAAGTAC TCTCGATGAGGAAGATTCTGAAGGACCTGAGAAGGANGGAGGGACACAGCTATTTTCAG CAGCACAAGACGCTNTGTGTGATTGATCCAGAAAACAGAGATTCCTGGGAGAGACTGA CATAGACATTGCAACAGAAGACAAGTNCNCCGTGGATACATAATCCNCTCTCCCTGTG GAGATGAACATTCTATCCTTGTGATGAGCATGCCAGCTATGTGGTAGGGCCAGCCCACCATG GNGGCCAAGACCTGCACAGGACAAGGGCCACCCTGCCTTTCAGTTACTTGAGTTTGGAGT CAGAAAAGC
Restriction Sites:	NotI-NotI
ACCN:	AK000989
Insert Size:	2900 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:	AK000989.1
RefSeq Size:	1481 bp
RefSeq ORF:	1481 bp
Locus ID:	5142
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]