

## Product datasheet for **SC124016**

### **PDE4A (NM\_006202) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE4A (NM_006202) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE4A
Synonyms:	DPDE2; PDE4; PDE46
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006202 unedited ACTTCAGGGCCAGGAGAGGCACTGGGGAGNGGTCACAGGGATGCCACCCGGGATCTGTTC AGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTGGTTATCCTTT GTGTTTCTTTGTTTTTTTTTCTTTTTTGGTCTTTTTCTAAAAATGTTACAATAAAAAT TCAAAAAAATAAAATCCCTTCCGGGACCTCAGCCCCTTATCCCCAGCCCCACCTCAA AAAAAGCCCCGTGGGTGGGGCAGGGGAAAGGGGAAAAAAGAAAACAGAATAAAACC CCGCTTTTCGTTTTCTTTTTCTCAAGATGGACAAGAGGACAACACTAGTCTTTGATGCACA TGACGAGGTGGTCTGGGATCATGGGAGTGAGGGGATGAGTTTCATGATATCCCGGCCTCC TGACCTGATTCCGAATTTCTGTATACCCGTGGTCACAATGCTGCCTAACGTGCTAGGATT GGTGGATCACTACCATGCTCACCTGTACTACCATGACAGCATGTAAGCTGCTGACGTGCT GCAATGTACTGATGACTGCTGTGCACTACTTGCATAGATGCCGGCCTGGAGATTTTAA GATTCTTGTGGCGTCTGTCATGCTGCATTTGAATATGTGTATGATCTTGGCGTCTTAAT CATTTACTCATATTCACGACTGGGGATCATGTGCTAATGTGAGTCGATGCTTCAGTACTA CGACATGACN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006202
<b>Insert Size:</b>	2700 bp
<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>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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_006202.1</a> , <a href="#">NP_006193.1</a>
<b>RefSeq Size:</b>	4255 bp
<b>RefSeq ORF:</b>	1944 bp
<b>Locus ID:</b>	5141
<b>UniProt ID:</b>	<a href="#">P27815</a>
<b>Cytogenetics:</b>	19p13.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Progesterone-mediated oocyte maturation, Purine metabolism

**Gene Summary:**

The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE4 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]

Transcript Variant: This variant (4) contains an alternative 5' terminal exon and is missing several 5' coding exons compared to variant 1. It encodes a shorter isoform (4) with a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.