

## Product datasheet for **SC318989**

### **PDE4A (NM\_001111309) Human Untagged Clone**

#### **Product data:**

|               |   |
|---------------|---|
| Product Type: | Expression Plasmids                       |
| Product Name: | PDE4A (NM_001111309) Human Untagged Clone |
| Tag:          | Tag Free                                  |
| Symbol:       | PDE4A                                     |
| Synonyms:     | DPDE2; PDE4; PDE46                        |
| Vector:       | <u>pCMV6 series</u>                       |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001111309, the custom clone sequence may differ by one or more nucleotides

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ATGCGCTCCGGTGCAGCGCCCCGGGCCCCGGCCCCCTGCCTGGCACTGCCCCC
ACGGGCCCCGAGTCCCTGACCCACTTCCCCTTCAGCGATGAGGACACCCGTCGGCACCT
CCGGGCAGATCTGTCAGCTTCGAGGCAGAGAATGGGCCGACACCATCTCTGGCCGACG
CCCCCTGGACTCGCAGGCAGCCAGGACTCGTGTGCACGCCGGGGCGGCCACCAGCCAG
CGCCGGGAGTCCCTCCTGTACCGCTCAGACAGCGACTATGACATGTCACCCAAGACCATG
TCCCGGAACCTCATCGGTACCAGCGAGGCGCACGCTGAAGACCTCATCGTAACACCATTT
GCTCAGGTGCTGGCCAGCCTCCGGAGCGTCCGTAGCAACTTCTCACTCCTGACCAATGTG
CCCCTTCCAGTAACAAGCGGTCCCCTGTTGGCGGCCACCCTGTCTGCAAGGCCACG
CTGTCAGAAGAAACGTGTCAGCAGTTGGCCGGGAGACTCTGGAGGAGCTGGACTGGTGT
CTGGAGCAGCTGGAGACCATGCAGACCTATCGCTCTGTCAGCGAGATGGCCTCGCACAAG
TTCAAAGGATGTTGAACCGTGAGCTCACACACCTGTGAGAAATGAGCAGGTCGGAAAC
CAGGTCTCAGAGTACATTTCCACAACATTCCTGGACAAAACAGAATGAAGTGGAGATCCCA
TACCCACGATGAAGGAACGAGAAAAACAGCAAGCGCCGCGACCAAGACCCTCCCAGCCG
CCCCCGCCCCCTGTACCACACTTACAGCCCATGTCCCAAATCACAGGGTTGAAAAAGTTG
ATGCATAGTAACAGCCTGAACAACCTAACATTCCCCGATTTGGGGTGAAGACCGATCAA
GAAGAGCTCCTGGCCCAAGAACTGGAGAACCTGAACAAGTGGGCCTGAACATCTTTTGC
GTGTCCGATTACGCTGGAGGCCGCTCACTCACCTGCATCATGTACATGATATTCCAGGAG
CGGGACCTGCTGAAGAAATTCGCATCCCTGTGGACACGATGGTACATACATGCTGACG
CTGGAGGATCACTACCACGCTGACGTGGCCTACCATAACAGCCTGCACGCAGCTGACGTG
CTGCAGTCCACCCACGTAAGTGTGGCCACGCTGCACTAGATGCAGTGTTCACGGACCTG
GAGATTTCCGCCGCCCTTTCGCGGCTGCCATCCACGATGTGGATCACCTGCGGTTCTCC
AACCAAGTTCCTCATCAACACCAATTCGGAGCTGGCGCTCATGTACAACGATGAGTCGGTG
CTCGAGAATCACCACTGGCCGTGGGCTTCAAGCTGCTGCAGGAGGACAACCTGCGACATC
TTCCAGAACCTCAGCAAGCGCCAGCGGCAGAGCCTACGCAAGATGGTCATCGACATGGTG
CTGGCCACGGACATGTCCAAGCACATGACCCTCCTGGCTGACCTGAAGACCATGGTGGAG
ACCAAGAAAGTGACCAGCTCAGGGTCTCCTGCTAGATAACTACTCCGACCGCATCCAG
GTCCTCCGGAACATGGTGCATGTGCCACCTCAGCAACCCACCAAGCCGCTGGAGCTG
TACCGCCAGTGGACAGACCGCATCATGGCCGAGTTCCTCCAGCAGGTTGACCGAGAGCCG
GAGCGTGGCATGGAATCAGCCCATGTGTGACAAGCACACTGCCTCCGTGGAGAAGTCT
CAGGTGGGTTTTATTGACTACATTGTGCACCCATTGTGGGAGACCTGGGCGGACCTGTG
CACCCAGATGCCAGGAGATCTTGGACACTTGGAGGACAACCGGACTGGTACTACAGC
GCCATCCGGCAGAGCCATCTCCGCCACCCGAGGAGGAGTCAAGGGGGCCAGGCCACCCA
CCCCTGCCTGACAAGTCCAGTTTGAGCTGACGCTGGAGGAGGAAGAGGAGGAAGAAATA
TCAATGGCCAGATACCGTGCACAGCCCAAGAGGCATTGACTGCGCAGGGATTGTCAGGA
GTGCGAGGAAGCTCTGGATGCAACCATAGCCTGGGAGGCATCCCCGGCCAGGAGTCGTTG
GAAGTTATGGCACAGGAAGCATCCCTGGAGGCCGAGCTGGAGGCAGTGTATTTGACACAG
CAGGCACAGTCCACAGGCAGTGCACCTGTGGCTCCGGATGAGTTCTCGTCCCGGGAGGAA
TTCGTGGTTGCTGTAAGCCACAGCAGCCCTCTGCCCTGGCTTTCAAAGCCCCCTTCTC
CCTGCTTGGAGGACCCTGTCTGTTTCAGAGCATGCCCGGGCCTCCCGGGCTCCCTCC
ACGGCGGCCGAGGTGGAGGCCAACGAGAGCACCAGGCTGCCAAGAGGGCTTGCAGTGCC
TGCGCAGGGACATTTGGGAGGACACATCCGCACTCCCAGCTCCTGGTGGCGGGGGTCA
GGTGGAGACCCTACC
    
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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001111309

|                               |   |
|-------------------------------|---|
| <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>        | 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.  |
| <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>                | <u><a href="#">NM_001111309.1</a></u> , <u><a href="#">NP_001104779.1</a></u>   |
| <b>RefSeq Size:</b>           | 4503 bp   |
| <b>RefSeq ORF:</b>            | 2478 bp   |
| <b>Locus ID:</b>              | 5141  |
| <b>UniProt ID:</b>            | <u><a href="#">P27815</a></u>   |
| <b>Cytogenetics:</b>          | 19p13.2   |
| <b>Protein Families:</b>      | Druggable Genome  |
| <b>Protein Pathways:</b>      | Progesterone-mediated oocyte maturation, Purine metabolism  |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (3, also known as HSPDE4A10) contains an alternative 5' terminal exon compared to variant 1. It encodes a shorter isoform (3) 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.</p> |