

## Product datasheet for SC332656

### PDE1A (NM\_001258313) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PDE1A (NM\_001258313) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PDE1A  
**Synonyms:** CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332656 representing NM\_001258313.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGATGACCATGTCACAATCAGGAAGAAACATCTCAAAGACCCATCTTTAGACTAAGATGCTTGGTG
AAGCAGCTGGAAGAGGTGATGTTAACGTCGTCGACTTAAAGAAGAATATTGAATATGCGGCATCTGTG
CTGGAAGCAGTTTATATCGATGAAACAAGAAGACTTCTGGATACTGAAGATGAGCTCAGTGACATTCAG
ACTGACTCAGTCCCCTCTGAAGTCGGGACTGGTTGGCTTCTACCTTTACACGGAAAATGGGGATGACA
AAAAAGAAACCTGAGGAAAAACAAAATTTCCGAGCATTGTGCATGCTGTTCAAGCTGGAATTTTTGTG
GAAAGAATGTACCGAAAAACATATCATATGGTTGGTTTGGCATATCCAGCAGCTGTCATCGTAACATTA
AAGGATGTTGATAAATGGTCTTTTCGATGTATTTGCCCTAAATGAAGCAAGTGGAGAGCATAGTCTGAAG
TTTATGATTTATGAACTGTTTACCAGATATGATCTTATCAACCGTTTCAAGATTCCTGTTTCTTGCCTA
ATCACCTTTGCAGAAGCTTTAGAAGTTGGTTACAGCAAGTACAAAAATCCATATCACAATTTGATTCAT
GCAGCTGATGTCACCTCAAACGTGCATTACATAATGCTTCATACAGGTATCATGCACTGGCTCACTGAA
CTGGAATTTTAGCAATGGTCTTTGCTGCTGCCATTCATGATTATGAGCATACAGGGACAACAACAAC
TTTACATTACAGACAAGGTCAGATGTTGCCATTTGTATAATGATCGCTCTGTCCCTTGAGAATCACCAC
GTGAGTGCAGCTTATCGACTTATGCAAGAAGAAGAAATGAATATCTTGATAAATTTATCCAAGATGAC
TGGAGGGATCTTCGGAACCTAGTGATTGAAATGGTTTTATCTACAGACATGTCAGGTCACTCCAGCAA
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CTCCACGCAGCAGACATCAGCCACCCAGCCAAATCCTGGAAGCTGCATTATCGGTGGACCATGGCCCTA
ATGGAGGAGTTTTTCTGCAGGGAGATAAAGAAGCTGAATTAGGGCTTCCATTTTCCCCTTTGTGAT
CGGAAGTCAACCATGGTGGCCAGTCACAAATAGGTTTCATCGATTTATAGTAGAGCCAACATTTTCT
CTTCTGACAGACTCAACAGAGAAAATTGTTATTCCTCTTATAGAGGAAGCCTCAAAGGCCGAACTTCT
TCCTATGTGGCAAGCAGCTCAACCACATTGTGGGTTACACATTGCTGATGCACCTAAGACGATCAAAAT
ACAAAAGGCTCCATGAGTATGGTCTTATTTCCCAGACTACTCCCTTGCAGCAGTGGACCTGAAGAGT
TTCAAGAACAACCTGGTGGACATCATTACAGAGCAAAAGAGAGGTGAAAGAGTTAGCTGCACAAGAA
GCAAGAACCAGTTCACAGAAGTGTGAGTTTATTATCAGTAA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001258313  
**Insert Size:** 1560 bp



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<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>	<u>NM_001258313.1</u>
<b>RefSeq Size:</b>	2338 bp
<b>RefSeq ORF:</b>	1560 bp
<b>Locus ID:</b>	5136
<b>UniProt ID:</b>	<u>P54750</u>
<b>Cytogenetics:</b>	2q32.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction
<b>MW:</b>	59.6 kDa
<b>Gene Summary:</b>	<p>Cyclic nucleotide phosphodiesterases (PDEs) play a role in signal transduction by regulating intracellular cyclic nucleotide concentrations through hydrolysis of cAMP and/or cGMP to their respective nucleoside 5-prime monophosphates. Members of the PDE1 family, such as PDE1A, are Ca(2+)/calmodulin (see CALM1; MIM 114180)-dependent PDEs (CaM-PDEs) that are activated by calmodulin in the presence of Ca(2+) (Michibata et al., 2001 [PubMed 11342109]; Fidock et al., 2002 [PubMed 11747989]).[supplied by OMIM, Oct 2009]</p> <p>Transcript Variant: This variant (4) differs in the 5' and 3' UTRs and uses an alternate start codon, compared to variant 1. The encoded isoform (4) is shorter and has distinct N- and C-termini, compared to isoform 1.</p>