

## Product datasheet for **SC117012**

### **PDE1A (NM\_005019) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE1A (NM_005019) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE1A
Synonyms:	CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005019 edited  
 ATGGGGTCTAGTGCCACAGAGATTGAAGAATTGGAAAACACCACCTTTAAGTATCTTACA  
 GGAGAACAGACTGAAAAATGTGGCAGCGCCTGAAAGGAATACTAAGATGCTTGGTGAAG  
 CAGCTGGAAAGAGGTGATGTTAACGTCTGCGACTTAAAGAAGAATATTGAATATGCGGCA  
 TCTGTGCTGGAAGCAGTTTATATCGATGAAACAAGAAGACTTCTGGACTGAAGATGAG  
 CTCAGTGACATTCAGACTGACTCAGTCCCATCTGAAGTCCGGGACTGGTTGGCTTCTACC  
 TTTACACGGAAAAATGGGGATGACAAAAAAGAAACCTGAGGAAAAACAAAAATTCGGGAC  
 ATTGTGCATGCTGTTCAAGCTGGAATTTTTGTGGAAAGAATGTACCGAAAAACATATCAT  
 ATGGTTGGTTTGGCATATCCAGCAGCTGTCATCGTAACATTAAAGGATGTTGATAAATGG  
 TCTTTTCGATGATTTGCCCTAAATGAAGCAAGTGGAGAGCATAGTCTGAAGTTTATGATT  
 TATGAAGTGTACCAGATATGATCTTATCAACCGTTTCAAGATTCCTGTTTCTTGCCTA  
 ATCACCTTTGCAGAAGCTTTAGAAGTTGGTTACAGCAAGTACAAAAATCCATATCACAAT  
 TTGATTCATGCAGCTGATGTCCTCAAACTGTGCATTACATAATGCTTCATACAGGTATC  
 ATGCAGTGGCTCACTGAACTGAAAATTTAGCAATGGTCTTTGCTGCTGCCATTCATGAT  
 TATGAGCATACAGGGACAACAACAACCTTTCACATTCAGACAAGGTCAGATGTTGCCATT  
 TTGTATAATGATCGCTCTGCTTGGAGAATCACACGTGAGTGCAGCTTATCGACTTATG  
 CAAGAAGAAGAAATGAATATCTTGATAAAATTTATCCAAAGATGACTGGAGGGATCTTCGG  
 AACCTAGTGATTGAAATGGTTTTATCTACAGACATGTCAGGTCACCTCCAGCAAATTA  
 AATATAAGAAACAGTTTGCAGCAGCCTGAAGGGATTGACAGAGCCAAAACCATGTCCCTG  
 ATTCTCCACGCAGCAGACATCAGCCACCCAGCCAAATCCTGGAAGCTGCATTATCGGTGG  
 ACCATGGCCCTAATGGAGGAGTTTTCTGCAGGGAGATAAAGAAGCTGAATTAGGGCTT  
 CCATTTTCCCCTTTGTGATCGGAAGTCAACCATGGTGGCCAGTCACAATAGGTTTC  
 ATCGATTCATAGTAGAGCCAACATTTTTCTTTCTGACAGACTCAACAGAGAAAAATGTT  
 ATTCCTTATAGAGGAAGCCTCAAAGCCGAAACTTCTTCTATGTGGCAAGCAGCTCA  
 ACCACCATTGTGGGTTACACATTGCTGATGCACTAAGACGATCAATAAAAAAGGCTCC  
 ATGAGTGATGGGTCTATTCCCCAGACTACTCCCTTGCAGCAGTGGACCTGAAGAGTTTC  
 AAGAACAACCTGGTGGACATCATTACAGCAGAACAAGAGAGGTGGAAAGAGTTAGCTGCA  
 CAAGGTGAATCTGATCTTCATAAGAAGCTCAGAAGACTTAGTAAATGCTGAAGAAAAACAT  
 GATGAGACACATTCATAG

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_005019

**Insert Size:** 2570 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).

**OTI Annotation:** 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.

**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).

<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_005019.3</a> , <a href="#">NP_005010.2</a>
<b>RefSeq Size:</b>	2414 bp
<b>RefSeq ORF:</b>	1638 bp
<b>Locus ID:</b>	5136
<b>UniProt ID:</b>	<a href="#">P54750</a>
<b>Cytogenetics:</b>	2q32.1
<b>Domains:</b>	PDEase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction
<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 (1) encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>