

## Product datasheet for **SC303225**

### **PDE7A (NM\_002603) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE7A (NM_002603) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE7A
Synonyms:	HCP1; PDE7
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 sequence for NM\_002603 edited  
 TTGGAAGGCAGCTGCTTGAGGTCCAAGGCAGTCAGTGTCCCTCTCTTTTGCCTCGGGAC  
 AGCTGGTATTTATCAGACTCCTAAGAAGTTTTCTTGCTCCCTAGTAGAAGAGAGATT  
 ATGCAGCGGGCTTTTGATTGATCCAATGGGAATTACATTGATCTGGTGTCTGGCCTTGGT  
 TCTTATCAAGTGGATCACCTCTAAGAGGCGTGGAGCTATTTCTATGACAGTTCTGATCA  
 GACTGCATTATACATTCTGATGCTAGGAGATGTACGTGAAGGAGCCGAGCAGGATTTGA  
 ATCAGAAAGAAGAGGTTCTCACCCATATATTGATTTTCGTATTTTCCACTCTCAATCTGA  
 AATTGAAGTGTCTGTCTCTGCAAGGAATATCAGAAGGCTACTAAGTTTCCAGCGATATCT  
 TAGATCTTCACGCTTTTTTCGTGGTACTGCGGTTTCAAATTCCTAAACATTTTAGATGA  
 TGATTATAATGGACAAGCCAAGTGTATGCTGGAAAAAGTTGAAATTTGGAATTTTGATAT  
 CTTTCTATTTGATAGACTAACAAATGAAATAGTCTAGTAAGCTTAACCTTTTCAATTTATT  
 TAGTCTTCATGGATTAATTGAGTACTTCCATTTAGATATGATGAAACTTCGTAGATTTTT  
 AGTTATGATTCAAGAAGATTACCACAGTCAAAATCCTTACCATAACGCAGTCCACGCTGC  
 GGATGTTACTCAGGCCATGCACTGTTACTTAAAGGAACCTAAGCTTGCCAATTCTGTAAC  
 TCCTTGGGATATCTTGTGAGCTTAATTGCAGCTGCCACTCATGATCTGGATCATCCAGG  
 TGTTAATCAACCTTTCTTATTAATAAATAACCATTACTTGGCAACTTTATACAAGAATAC  
 CTCAGTACTGGAAAAATCACCACTGGAGATCTGCAGTGGGCTTATTGAGAGAATCAGGCTT  
 ATTCTCACATCTGCCATTAGAAAGCAGGCAACAAATGGAGACACAGATAGGTGCTCTGAT  
 ACTAGCCACAGACATCAGTCGCCAGAAATGAGTATCTGTCTTTGTTTAGGTCCCATTTGGA  
 TAGAGGTGATTTATGCCTAGAAGACACCAGACACAGACATTTGGTTTTACAGATGGCTTT  
 GAAATGTGCTGATATTTGTAACCCATGTCGGACGTGGGAATTAAGCAAGCAGTGGAGTGA  
 AAAAGTAACGGAGGAATCTTCCATCAAGGAGATATAGAAAAAATATCATTGGGTGT  
 GAGTCCACTTTGCGATCGTCACACTGAATCTATTGCCAACATCCAGATTGGTTTTATGAC  
 TTACCTAGTGGAGCCTTTATTTACAGAATGGGCCAGGTTTTCCAATACAAGGCTATCCCA  
 GACAATGCTTGGACACGTGGGGCTGAATAAAGCCAGCTGGAAGGGACTGCAGAGAGAACA  
 GTCGAGCAGTGAGGACACTGATGCTGCATTTGAGTTGAACTCACAGTTATTACCTCAGGA  
 AAATCGGTTATCATAACCCCCAGAACAGTGGGACAACTGCCTCCTGGAGGTTTTTAGA  
 AATGTGAAATGGGGTCTTGAGGTGAGAGAACTTAACTCTGACTGCCAAGGTTTCCAAGT  
 GAGTGATGCCAGCCAGCATTATTTATTTCCAAGATTTCTCTGTTGGATCATTGAAACC  
 ACTTGTTAATTGCAAGACCCGAACATACAGCAATATGAATTTGGCTTT

- Restriction Sites:** Please inquire
- ACCN:** NM\_002603
- Insert Size:** 1700 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_002603.1.
- 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:**

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:** [NM\\_002603.1](#), [NP\\_002594.1](#)

**RefSeq Size:** 1739 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 5150

**UniProt ID:** [Q13946](#)

**Cytogenetics:** 8q13.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

**Gene Summary:** The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE7 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 (1, also called PDE7A2) differs in the 5' UTR and coding sequence compared to variant 3. The resulting isoform (a) has a distinct N-terminus compared to isoform c. 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.