

## Product datasheet for **SC300151**

### PDE3A (NM\_000921) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PDE3A (NM\_000921) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PDE3A  
**Synonyms:** CGI-PDE; CGI-PDE-A; CGI-PDE A; HTNB  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000921 edited  
GGGGCCACTGGGAATTCAGTGAAGAGGGCACCCTATACCATGGCAGTGCCCGGCGACGC  
TGCACGAGTCAGGGACAAGCCCGTCCACAGTGGGGTGTAGTCAAGCCCCACGGCGGGCCG  
GGACTGCCACCATCGTGGGACCCCGCATCGCCGCGGACTCGGGCTGCCGTGGCTGCTG  
GGGAGACCTGGTGTGCAGCCGCTCCGGAGCTCTCGAAACTTTCTCCGCGCTGTGCGC  
GGGCTCCCTGTCTTTCTGCTGGCGCTGCTGGTGGGCTGGTCCGCGGGGAGGTGCGCTG  
TGACCTGGAGCAGTGTAAGGAGGCGGCGGCGGAGGAGGAAGCAGCCCCGGGAGC  
AGAAGGGGGCGTCTTCCCGGGCCTCGGGGAGGTGCTCCCGGGGCGGTGCGCGGCTCAG  
CCCCTGGTGCAGCCCTCGGCGCTGCTTTCAGTCTCCTGTGTGCCTTCTTGGATGGG  
CTTGTACCTCCTGCGCGCGGGGTGCGCCTGCCTCTGGTGTGCGCTGTGGCCGCTG  
CTGCGGGGGGAAGCGCTCGTCCAGATTGGGCTGGGCGTGGGGAGGATCACTTACTCTC  
ACTCCCCGCCGCGGGGTGGTGTCTAGCTGCTTGGCCGCGCGACATGGCTGGTGTGAG  
GCTGAGGCTGGGCGTCTCATGATCGCCTTACTAGCGCGGTGAGACCGTGTCCCTCAT  
TTCTTAGAGAGGTTCAAGTTCGCTGGAGACCTTACCTGGCGTACCTGGCCGGCGTGT  
GGGGATCCTCTTGGCCAGGTACGTGGAACAAATCTTGGCCGAGTCCGCGGAGGCGGCTCC  
AAGGGAGCATTTGGGGTCCCAGCTGATTGCTGGACCAAGGAAGATATCCGGTGTTTAA  
GAGGAGGAGGCGGTCCAGCTCCGTGCTGCGCCGAGATGTCCGGCTGCAGCAGCAAGTC  
CCATCGGAGGACCTCCCTGCCCTGTATACCGAGGGAACAGCTCATGGGGCATTGAGAATG  
GGACCACAAACGAGGGCCAAGAGGATCACAGTCTTCAGGAACCAAGTATTACTGTGGACAT  
CGCCGTATGGGCGAGGCCACGCGCTCATTACCGACCTCCTGGCAGACCCTTCTCTTCC  
ACCAAACGTGTGCACATCCTTGAGAGCCGTGAGCAACTTGTCTCAGCACACAGCTCACCTT  
CCAGGCCATTCACAAGCCAGAGTGAATCCCGTACTTCGCTCAGTGAAAATACTACCTG  
TTCTGACTCTGAAGAGAGCTCTGAAAAAGACAAGCTTGTATTCCAAAGCGCCTGAGAAG  
GAGTTTGCCTCCTGGCTTGTGAGACGAGTTTCTTCCACTGGACCACCACCACCTCGGC  
CACAGGTCTACCCACCTTGGAGCCTGCACCAGTACGGAGAGACCCGAGCACCAGCATCAA  
ACTGCAGGAAGCACCTTCCAGTCTGATTCTTGAATAATCCAGTGTATGATGACCT  
CACAAAAGCAGATCCTTACTTCATCCTATGCTATTTCTGCAGTAACCATGTAAGGC



[View online »](#)

TAAAAAGCAAAGTCGACCAGGTGCCCTCGCTAAAATTTACCTCTTTCATCGCCCTGCTC  
 CTCACCTCTCCAAGGGACTCCTGCCAGCAGCCTGGTCAGCAAAATTTCTGCAGTGCACTT  
 TCCAGAATCTGCTGACACAACCTGCCAAACAAAGCCTAGGTTCTCACAGGGCCTTAACTTA  
 CACTCAGAGTGCCCCAGACCTATCCCCTCAAATCCTGACTCCACCTGTTATATGTAGCAG  
 CTGTGGCAGACCATATCCCAAGGGAATCCTGCTGATGAGCCCCGGAGAGAAGTGGGGT  
 AGCCACTCGGACACCAAGTAGAACAGATGACACTGCTCAAGTTACCTCTGATTATGAAAC  
 CAATAACAACAGTGACAGCAGTGACATTGTACAGAATGAAGATGAAACAGAGTGCCTGAG  
 AGAGCCTCTGAGGAAAGCATCGGCTTGACAGCACCTATGCTCCTGAGACCATGATGTTTCT  
 GGACAAACCAATTCTTGCTCCCGAACCTCTTGTCATGGATAACCTGGACTCAATTATGGA  
 GCAGCTAAATACTTGAATTTTCCAATTTTGTATTAGTGGAAAAATAGGAAGAAAAATG  
 TGGCCGATTCTTAGTCAGGTATCTTACAGACTTTTTGAAGACATGGGCCTGTTTGAAGC  
 TTTTAAAATCCAATTAGGGAATTTATGAATTTTTTCATGCTTTGGAGATTGGATATAG  
 GGATATTCCTTATCATAACAGAATCCATGCCACTGATGTTTTACATGCTGTTTGGTATCT  
 TACTACACAGCCTATCCAGGCCTCTCAACTGTGATTAATGATCATGGTTCAACCAAGTGA  
 TTCAGATTCTGACAGTGGATTTACACATGGACATATGGGATATGATTCTCAAAAACGTA  
 TAATGTGACAGATGATAAATACGGATGTCTGTCTGGGAATATCCCTGCCTTGGAGTTGAT  
 GGCCTGTATGTGGCTGCAGCCATGCACGATTATGATCATCCAGGAAGGACTAATGCTTT  
 CCTGGTTGCAACTAGTGCTCCTCAGGCGGTGCTATATAACGATCGTTTCAGTTTTGGAGAA  
 TCATCACGCAGCTGCTGCATGGAATCTTTTCATGTCCCGCCAGAGTATAACTTCTTAAT  
 TAACCTTGACCATGTGGAATTTAAGCATTTCCGTTTCTTGTGCTATTGAAGCAATTTTGGC  
 CACTGACCTGAAGAACTTTGACTTCGTAGCCAAATTAATGGCAAGGTAAATGATGA  
 GTTGGAAATAGATTGGACCAATGAAAATGATCGTCTACTGGTTTTGCAAAATGTGTATAAA  
 GTTGGCTGATATCAATGGTCCAGCTAAATGTAAGAAGTCCATCTTCAGTGGACAGATGG  
 TATTGTCAATGAATTTTATGAACAGGGTATGAAGAGGCCAGCCTTGGATTACCCATAAG  
 CCCCTTATGGATCGTTCTGCTCCTCAGCTGGCCAACCTTCAGGAATCCTTCATCTCTCA  
 CATTGTGGGGCCTCTGTGCAACTCCTATGATTCAGCAGGACTAATGCCTGGAAAAATGGGT  
 GGAAGACAGCGATGAGTCAGGAGATACTGATGACCCAGAAGAAGAGGAGGAAGAAGCACC  
 AGCACCAAATGAAGAGGAAACCTGTGAAAATAATGAATCTCAAAAAAGAAGACTTTCAA  
 AAGGAGAAAAATCTACTGCCAAATAACTCAGCACCTCTTACAGAACCACAAGATGTGGAA  
 GAAAGTCATTGAAGAGGAGCAACGGTTGGCAGGCATAGAAAATCAATCCCTGGACCAGAC  
 CCCTCAGTCGCACTCTTCAGAACAGATCCAGGCTATCAAGGAAGAAGAAGAAGAGAAAGG  
 GAAACCAAGAGGCGAGGAGATACCAACCCAAAAGCCAGACCAGTGACAATGGATAGAATG  
 GGCTGTGTTTCCAACAGATTGACTTGTCAAAGACTCTTCAAGCCAGCACAAAGCA

- Restriction Sites:** Please inquire
- ACCN:** NM\_000921
- 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 open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
- 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\\_000921.3](#), [NP\\_000912.3](#)

**RefSeq Size:** 4124 bp

**RefSeq ORF:** 3426 bp

**Locus ID:** 5139

**UniProt ID:** [Q14432](#)

**Cytogenetics:** 12p12.2

**Protein Families:** Druggable Genome, Transmembrane

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

**Gene Summary:** This gene encodes a member of the cGMP-inhibited cyclic nucleotide phosphodiesterase (cGI-PDE) family. cGI-PDE enzymes hydrolyze both cAMP and cGMP, and play critical roles in many cellular processes by regulating the amplitude and duration of intracellular cyclic nucleotide signals. The encoded protein mediates platelet aggregation and also plays important roles in cardiovascular function by regulating vascular smooth muscle contraction and relaxation. Inhibitors of the encoded protein may be effective in treating congestive heart failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.