

## Product datasheet for **RG239628**

### **PDE3A (NM\_001244683) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE3A (NM_001244683) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE3A
Synonyms:	CGI-PDE; CGI-PDE-A; CGI-PDE A; HTNB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG239628 representing NM\_001244683.  
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGTGACGATATTTTCCAATCGTGGAGCTTCTACTGGGAAAAGTCTTCAGGAACCAAGTATTACTGTG
GACATCGCCGTCATGGGCGAGGCCACGGCCTCATTACCGACCTCCTGGCAGACCCTTCTCTCCACCA
AACGTGTGCACATCCTTGAGAGCCGTGAGCAACTTGCTCAGCACACAGCTCACCTTCCAGGCCATTAC
AAGCCAGAGTGAATCCCGTCACTTCGCTCAGTAAAACTATACCTGTTCTGACTCTGAAGAGAGCTCT
GAAAAAGACAAGCTTGCTATTCCAAAGCGCTGAGAAGGAGTTTGCCTCCTGGCTTGTGAGACGAGTT
TCTTCCACTTGGACCACCACCACCTCGGCCACAGGTCTACCCACCTTGGAGCCTGCACCAGTACGGAGA
GACCGCAGCACCAGCATCAAAGTGCAGGAAGCACCTTCATCCAGTCTGATTCTTGAATAATCCAGTG
ATGATGACCTCACAAAAGCAGATCCTTACTTCATCCTATGCTATTTCTGCAGCTAACATGTAAG
GCTAAAAAGCAAAGTCGACCAGGTGCCCTCGCTAAAATTTACCTCTTTCATCGCCCTGCTCCTCACCT
CTCAAGGACTCCTGCCAGCAGCTGGTCAGCAAAATTTCTGCAGTGCAGTTTCCAGAATCTGCTGAC
ACAACTGCCAAACAAAGCCTAGGTTCTCACAGGCCCTAACTTACACTCAGAGTGCCCGAGACCTATCC
CCTCAAATCCTGACTCCACCTGTTATATGTAGCAGCTGTGGCAGACCATATTTCCAAAGGGAATCCTGCT
GATGAGCCCTGGAGAGAAGTGGGTAGCCACTCGGACACCAAGTAGAACAGATGACACTGCTCAAGTT
ACCTCTGATTATGAAACCAATAACAACAGTGACAGCAGTGACATTGTACAGAATGAAGATGAAACAGAG
TGCTGAGAGAGCCTCTGAGGAAAGCATCGGCTTGACAGCCTATGCTCCTGAGACCATGATGTTTCTG
GACAAACCAATTTCTGCTCCCGAACCTCTTGTATGGATAACCTGGACTCAATTATGGAGCAGCTAAAT
ACTTGGAAATTTCCAATTTTGTATTTAGTGGAAAAATAGGAAGAAAAATGGCCGATTTCTTAGTCAG
GTATCTTACAGACTTTTTGAAGACATGGCCCTCTTTGAAGCTTTTAAAAATCCAATTAGGGAATTTATG
AATTATTTTCATGCTTTGGAGATTGGATATAGGATATTCTTATCATAACAGAATCCATGCCACTGAT
GTTTTACATGCTGTTTGGTATCTTACTACACAGCCTATTCCAGGCCTCTCAACTGTGATTAAATGATCAT
GGTTCAACCAGTGATTGAGATTCTGACAGTGGATTTACACATGGACATATGGGATATGATTCTCAAAA
ACGTATAATGTGACAGATGATAAATACGGATGTCTGTCTGGGAATATCCCTGCCTTGGAGTTGATGGCG
CTGTATGTGGCTGCAGCCATGCACGATTATGATCATCCAGGAAGGACTAATGCTTTCCTGGTTGCAACT
AGTGCTCCTCAGGCGGTGCTATAAACGATCGTTCAGTTTTGGAGAATCATCACGCAGCTGCTGCATGG
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AATGGCAAGGTAATGATGATGTTGGAATAGATTGGACCAATGAAAATGATCGTCTACTGTTTGTCAA
ATGTGTATAAAGTTGGCTGATATCAATGGTCCAGCTAAATGTAAGAAGTCCATCTTCAGTGGACAGAT
GGTATTGTCAATGAATTTTATGAACAGGGTGATGAAGAGGCCAGCCTTGGATTACCCATAAGCCCTTC
ATGGATCGTTCTGCTCCTCAGCTGGCAACCTTCAGGAATCCTTCATCTCTCACATTGTGGGGCCTCTG
TGCAACTCCTATGATTGACGAGGACTAATGCCTGGAAAATGGGTGGAAGACAGCGATGAGTCAGGAGAT
ACTGATGACCCAGAAGAAGAGGAGGAAGAAGCACAGCACCAATGAAGAGGAAACCTGTGAAAATAAT
GAATCTCAAAAAAGAAGACTTTCAAAAGGAGAAAAATCTACTGCCAAATAACTCAGCACCTTTACAG
AACCAAGATGTGGAAGAAAGTCATTGAAGAGGAGCAACGGTTGGCAGGCATAGAAAATCAATCCCTG
GACCAGACCCCTCAGTCGCACTTTCAGAACAGATCCAGGCTATCAAGGAAGAAGAAGAAGAGAAAGGG
AAACCAAGAGGCGAGGAGATACCAACCCAAAAGCCAGACCCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239628  
 Blue=ORF Red=Cloning site Green=Tag(s)

MVTIFSKSWSFYWEKSSGTSITVDIAVMGEAHGLITDLLADPSLPPNVCTSLRAVSNLLSTQLTFQAIH  
 KPRVNPVTSLSENYTCSDESSEKDKLAIPKRLRRSLPPGLRRVSSTWTTTTSATGLPTLEPAPVRR  
 DRSTSIKLEAPSSSPDSWNNPVMMTLTKSRFTSSYAISAANHVKAKKQSRPGALAKISPLSSPCSSP  
 LQGTPASSLVKISAVQFPESADTTAKQSLGSHRALTYTQSAPDLSPQILTPPVICSSCGRPYSGNPA  
 DEPLERSGVATRTPSRDDTAQVTSYETNNNSDSSDIVQNEDETECLREPLRKASACSTYAPETMMFL  
 DKPILAPEPLVMDNLDSEIMEQLNTWNFPIFDLVENIGRKCGRILSQVSYRLFEDMGLFEAFKIPIREFM  
 NYFHALEIGYRDIPYHNRHATDVLHAVWYLTQPIPLSTVINDHGSTSDSDSDSGFTHGHMGYVFSK  
 TYNVTDDKYGCLSGNIPALELMALYVAAAMHDYDHPGRTNAFLVATSAPQAVLYNDRSVLENHHAAAW  
 NLFMSRPEYNFLINLDHVEFKHFRFLVIEAILATDLKKHFDVAKFNGKVNDVGDWTNENDRLLVCQ  
 MCIKLADINGPAKCKELHLQWTDGIVNEFYEQGDEEASLGLPISPFMDRSAPQLANLQESFISHIVGPL  
 CNSYDSAGLMPGKWVEDSDESGDTPQSHSSEIQAIKEEEEEKKGPRGEEIPTQKPDQ  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001244683

ORF Size: 2457 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

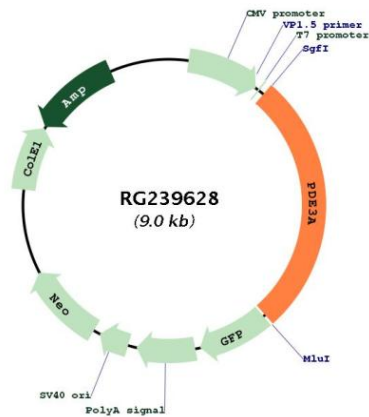
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM\\_001244683.2](#)

**RefSeq Size:** 6576 bp  
**RefSeq ORF:** 2460 bp  
**Locus ID:** 5139  
**Cytogenetics:** 12p12.2  
**Protein Families:** Druggable Genome, Transmembrane  
**Protein Pathways:** Insulin signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism  
**MW:** 91.7 kDa

**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]

**Product images:**



Circular map for RG239628