

## Product datasheet for **RG207765**

### **PDE4A (NM\_006202) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE4A (NM_006202) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE4A
Synonyms:	DPDE2; PDE4; PDE46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207765 representing NM\_006202  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTTGGTGGATTTCTTCTGCGAGACCTGCTCTAAGCCTTGGCTGGTGGGCTGGTGGGACCAGTTCA  
 AAAGGATGTTGAACCGTGAGCTCACACCTGTACAGAAATGAGCAGGTCCGGAAACCAGGTCTCAGAGTA  
 CATTTCCACAACATTCCTGGACAAAAGAGTGAAGTGGAGATCCCATCACCCACGATGAAGGAACGAGAA  
 AAACAGCAAGCGCCGCGACCAAGACCCTCCAGCCGCCCGCCCTGTACCACACTTACAGCCCATGT  
 CCCAAATCACAGGGTTGAAAAAGTTGATGCATAGTAACAGCCTGAACAACCTAACATTCCCCGATTGG  
 GGTGAAGACCGATCAAGAAGAGCTCCTGGCCCAAGAACTGGAGAACCTGAACAAGTGGGGCTGAACATC  
 TTTTTCGTGTCCGATTACGCTGGAGGCCGCTCACTCACCTGCATCATGTACATGATATTCAGGAGCGGG  
 ACCTGCTGAAGAAATCCGCATCCCTGTGGACACGATGGTGACATACATGCTGACGCTGGAGGATCACTA  
 CCACGCTGACGTGGCCTACCATAACAGCCTGCACGCAGCTGACGTGCTGCAGTCCACCCAGTACTGCTG  
 GCCACGCCTGACTAGATGCAGTGTTCACGGACCTGGAGATTCTCGCCGCCCTCTTCGCGGCTGCCATCC  
 ACGATGTGGATCACCCCTGGGGTCTCCAACCAAGTTCCTCATCAACACCAATTCGGAGCTGGCGCTCATGTA  
 CAACGATGAGTCGGTGTCTGAGAATCACCACTGGCCGTGGGCTTCAAGCTGCTGCAGGAGGACAACCTGC  
 GACATCTTCCAGAACCTCAGCAAGCGCCAGCGGACAGCCTACGCAAGATGGTCAATCGACATGGTGTG  
 CCACGGACATGTCCAAGCACATGACCCTCCTGGCTGACCTGAAGACCATGGTGGAGACCAAGAAAGTGC  
 CAGCTCAGGGTCTCCTGCTAGATAACTCCGACCGCATCCAGGTCTCCGGAACATGGTGCATGT  
 GCCGACCTCAGCAACCCCAAGCCGCTGGAGCTGTACCGCCAGTGGACAGACCCGATCATGGCCGAGT  
 TCTTCCAGCAGGGTGACCGAGAGCGGAGCGTGGCATGGAAATCAGCCCCATGTGTGACAAGCACACTGC  
 CTCGCTGGAGAAGTCTCAGGTGGGTTTTATTGACTACATTGTGCACCCATTGTGGGAGACCTGGGCGGAC  
 CTTGTCCACCCAGATGCCAGGAGATCTTGGACACTTTGGAGGACAACCGGGACTGGTACTACAGCGCCA  
 TCCGGCAGAGCCCATCTCCGCCACCCGAGGAGGAGTCAAGGGGGCCAGGCCACCCACCCCTGCCTGACAA  
 GTTCCAGTTTGGCTGACGCTGGAGGAGGAAGAGGAGGAAGAAATATCAATGGCCAGATACCGTGCACA  
 GCCCAAGAGGCATTGACTGCGCAGGGATTGTGAGGAGTGGAGGAGTCTGGATGCAACCATAGCCTGGG  
 AGGCATCCCCGGCCAGGAGTCTTGAAGTTATGGCACAGGAAGCATCCCTGGAGGCCGAGCTGGAGGC  
 AGTGTATTTGACACAGCAGGCACAGTCCACAGGCAGTGCACCTGTGGCTCCGGATGAGTTCTCGTCCCGG  
 GAGGAATTCGTGGTTGCTGTAAGCCACAGCAGCCCTCTGCCCTGGCTCTTCAAAGCCCCCTTCCCTG  
 CTTGGAGGACCCGTCTGTTTCAGAGCATGCCCGGGCCTCCCGGCCTCCCTCCACGGCGGCCGAGGT  
 GGAGGCCCAACGAGAGCACCAAGGCTGCCAAGAGGGCTTGCAAGTGCCTGCCAGGGACATTTGGGGAGGAC  
 ACATCCGCACTCCAGCTCCTGGTGGCGGGGGTCAAGTGGAGACCTACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207765 representing NM\_006202  
 Red=Cloning site Green=Tags(s)

MPLVDFFCETCSKPWL VGWWDQFKRMLNREL THLSEMSRSGNQVSEYISTTFLDKQNEVEIPSPTMKERE  
 KQQAPRPRPSQPPPPVPHLQPMSQITGLKLMHSNSLNNSNIPRFGVKTDQEELLAQELNENLKWGLNI  
 FCVSDYAGGRSLTCIMYMIFQERDLLKFRIPVDTMVTYMLTLEDHYHADVAYHNSLHAADVLSQTHVLL  
 ATPALDAVFTDLEILAALFAAAIHDVDHPGVSNOFLINTNSELALMYNDESVLENHHLAVGFKLLQEDNC  
 DIFQNL SKRQRQSLRKMVIDMVLATDMSKHMTLLADLKT MVETKKTSSGVLLLDNYSRDIQVLRNMVHC  
 ADLSNPTKPLELYRQWTDRIAEFFQQGDREMERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETWAD  
 LVHPDAQEILDITLEDNRDWYSAIRQSPSPPEEESRGP GHPPLPKFQFELTLEEEEEIEISMAQIPCT  
 AQEALTAQGLSGVEEALDIAWEASPAQESLEVMAQEASLEAELEAVYLTQQAQSTGSAPVAPDEFSSR  
 EEFVAVSHSSPSALALQSPLLPWRTL SVSEHAPGLPGLPSTAAEVEAQREHQAAKRACSACAGTFGED  
 TSALPAPGGGGSGGDPT

**TRTRPLE** – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_006202

ORF Size: 1941 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).

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\\_006202.3](#)

RefSeq Size: 4255 bp

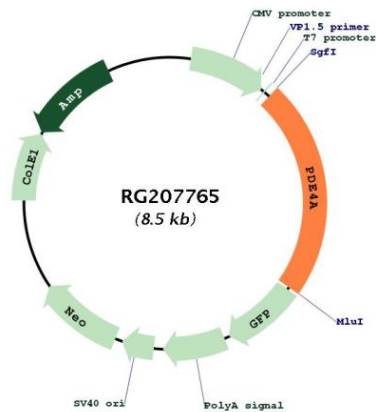
RefSeq ORF: 1944 bp

Locus ID: 5141

UniProt ID: [P27815](#)

Cytogenetics:	19p13.2
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 PDE4 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]

### Product images:



Circular map for RG207765