

## Product datasheet for **RG222400**

### **PDE11A (NM\_001077197) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE11A (NM_001077197) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE11A
Synonyms:	PPNAD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG222400 representing NM\_001077197  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGCTGAAGCAGGCAAGAAGACCTTTATTCAGAAATGTGCTCAGTGCCACACAGTGGAAAAAGTGAAAA  
TCACAAGACTGGTCCAAATCTCTGGGGCCTCTTTGGCTGAAAAACAGAAAAGCACCAGGATTTTCTTAT  
ACAGAGGCAAAACAAAAACAAAGGATCGACGATTCAATGATGAAATCGACAAGCTAACTGGATACAAGACA  
AAATCATTATTGTGCATGCCTATCCGAAGCAGTGATGGTGAGATTATTGGTGTGGCCCAAGCGATAAATA  
AGATTCTGAAGGAGCTCCATTTACTGAAGATGATGAAAAAGTTATGCAGATGTATCTTCCATTTTGTGG  
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GAGGTGGTTAATGACCTCTTTGAAGAACAGACTGACCTGGAGAAAATTGTCAAGAAAATAATGCATCGGG  
CCCAAACCTCTGCTGAAATGTGAACGCTGTTCTGTTTTACTCTAGAGGACATCGAATCACCAGTGGTGAA  
ATTTACCAAATCCTTTGAATTGATGTCCCAAAGTGCAGTGCTGATGCTGAGAACAGTTTCAAAGAAAGC  
ATGGAGAAATCATCATACTCCGACTGGCTAATAAATAACAGCATTGCTGAGCTGGTTGCTTCAACAGGCC  
TTCCAGTGAACATCAGTGATGCCTACCAGGATCCGCGCTTTGATGCAGAGGCAGACCAGATATCTGGTTT  
TCACATAAGATCTGTTCTTTGTGTCCCTATTTGGAATAGCAACCACAAATAATTGGAGTGGCTCAAGTG  
TTAAACAGACTTGATGGGAAACCTTTTGATGATGCAGATCAACGACTTTTTGAGGCTTTTGTATCTTTT  
GTGGACTTGGCATCAACAACACAATTATGTATGATCAAGTGAAGAAGTCTGGGCCAAGCAGTCTGTGGC  
TCTTGATGTGCTATCATACCATGCAACATGTTCAAAGCTGAAGTTGACAAGTTTAAAGGCAGCCAACATC  
CCTCTGGTGTGAGAACTGGCATCGATGACATTCATTTTGTGACTTTTCTCTCGACGTTGATGCCATGA  
TCACAGCTGCTCCTCCGGATGTTTATGGAGCTGGGGATGGTACAGAAATTTAAAATTGACTATGAGACACT  
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GCCGTGATGATCCTTCAAAGTGAGGGTCACAATATCTTTGCTAACCTGTCTTCCAAGGAATATAGTGACC  
TTATGCAGCTTTTGAAGCAGTCAATATTGGCAACAGACCTCACGCTGTACTTTGAGAGGAGAACTGAATT  
CTTTGAACTTGTGAGTAAAGGAGAATACGATTGGAACATCAAAAACCATCGTGATATATTTTCGATCAATG  
TTAATGACAGCCTGTGACCTTGGAGCCGTGACCAACCGTGGGAGATCTCCAGACAGGTGGCAGAACTTG  
TAACCAGTGAGTTCTTGAACAAGGAGATCGGGAGAGATTAGAGCTCAAACCTCACTCCTTCAAGCAATTTT  
TGATCGGAACCGGAAGGATGAACTGCCTCGGTTGCAACTGGAGTGGATTGATAGCATCTGCATGCCTTTG  
TATCAGGCACTGGTGAAGGTCAACGTGAAACTGAAGCCGATGCTAGATTCAGTAGCTACAAAACAGAAGTA  
AGTGGGAAGAGCTACACCAAAAACGACTGCTGGCCTCAACTGCCTCATCTCCCCGCCAGTGTTATGGT  
AGCCAAGGAAGACAGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG222400 representing NM\_001077197  
Red=Cloning site Green=Tags(s)

```
MLKQARRPLFRNVL SATQWKKVKITRLVQISGASLAEKQEKHQDFLIQRQTKTKDRRFNDEIDKLTGYKT
KSLLCMPIRSSDGEIIGVAQAINKIPEGAPFTEDEKVMQMYLPFCGIAISNAQLFAASRKEYERSRALL
EVVNDLFEEQTDLEKIVKKIMHRAQTLLKCERCSVLLLEDIESPVVKFTKSFELMSPKCSADAENFSKES
MEKSSYSDWLINNSIAELVASTGLPVNISDAYQDPRFDAEQISGFHIRSVLCVPIWNSNHQIIGVAQV
LNRLDGGKPFDDADQRLFEAFVIFCGLGINNTIMYDQVKKSWAKQSVALDVL SYHATCSKAEVDKFAANI
PLVSELAIDDIHFDDFSLDVDAMITAALRMFMELGMVQKFKIDYETLCRWLLTVRKNYRMVLYHNWRHAF
NVCQLMFAMLTTAGFQDILTEVEILAVIVGCLCHDLDRGTNNAFQAKSGSALAQLYGTSALEHHHFNH
AVMILQSEGHNIFANLSSKEYSDLMQLLKQSILATDLTYFERTEFFELVSKGEYDWNINKNHRDIFRSM
LMTACDLGAVTKPWEISRQVAELVTSEFFEQGDRELERLKLTPSAIFDRNRKDEL PRLQLEWIDSICMPL
YQALVKVNVKLPMLDSVATNRSKWEELHQKRLLASTASSSPASVMVAKEDRN
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001077197

**ORF Size:** 2049 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\\_001077197.2](#)

**RefSeq Size:** 8316 bp

**RefSeq ORF:** 2052 bp

**Locus ID:** 50940

**UniProt ID:** [Q9HCR9](#)

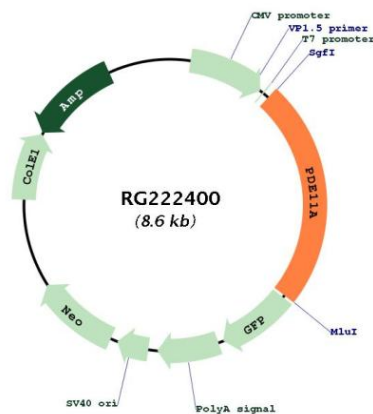
**Cytogenetics:** 2q31.2

**Protein Families:** Druggable Genome

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

**Gene Summary:** The 3',5'-cyclic nucleotides cAMP and cGMP function as second messengers in a wide variety of signal transduction pathways. 3',5'-cyclic nucleotide phosphodiesterases (PDEs) catalyze the hydrolysis of cAMP and cGMP to the corresponding 5'-monophosphates and provide a mechanism to downregulate cAMP and cGMP signaling. This gene encodes a member of the PDE protein superfamily. Mutations in this gene are a cause of Cushing disease and adrenocortical hyperplasia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG222400