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# Product datasheet for RC222400

## PDE11A (NM_001077197) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PDE11A (NM_001077197) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | PDE11A |
| **Synonyms:** | PPNAD2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC222400 representing NM_001077197
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGAAGCAGGCAAGAAGACCTTTATTCAGAAATGTGCTCAGTGCCACACAGTGGAAAAAGGTGAAAA
TCACAAGACTGGTCCAAATCTCTGGGGCCTCTTTGGCTGAAAAACAGGAAAAGCACCAGGATTTTCTTAT
ACAGAGGCAAACAAAAACAAAGGATCGACGATTCAATGATGAAATCGACAAGCTAACTGGATACAAGACA
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AGATTCCTGAAGGAGCTCCATTTACTGAAGATGATGAAAAAGTTATGCAGATGTATCTTCCATTTTGTGG
AATCGCCATATCTAACGCTCAGCTCTTTGCTGCCTCAAGGAAAGAATATGAAAGAAGCAGAGCTTTGCTA
GAGGTGGTTAATGACCTCTTTGAAGAACAGACTGACCTGGAGAAAATTGTCAAGAAAATAATGCATCGGG
CCCAAACTCTGCTGAAATGTGAACGCTGTTCTGTTTTACTCCTAGAGGACATCGAATCACCAGTGGTGAA
ATTTACCAAATCCTTTGAATTGATGTCCCCAAAGTGCAGTGCTGATGCTGAGAACAGTTTCAAAGAAAGC
ATGGAGAAATCATCATACTCCGACTGGCTAATAAATAACAGCATTGCTGAGCTGGTTGCTTCAACAGGCC
TTCCAGTGAACATCAGTGATGCCTACCAGGATCCGCGCTTTGATGCAGAGGCAGACCAGATATCTGGTTT
TCACATAAGATCTGTTCTTTGTGTCCCTATTTGGAATAGCAACCACCAAATAATTGGAGTGGCTCAAGTG
TTAAACAGACTTGATGGGAAACCTTTTGATGATGCAGATCAACGACTTTTTGAGGCTTTTGTCATCTTTT
GTGGACTTGGCATCAACAACACAATTATGTATGATCAAGTGAAGAAGTCCTGGGCCAAGCAGTCTGTGGC
TCTTGATGTGCTATCATACCATGCAACATGTTCAAAAGCTGAAGTTGACAAGTTTAAGGCAGCCAACATC
CCTCTGGTGTCAGAACTTGCCATCGATGACATTCATTTTGATGACTTTTCTCTCGACGTTGATGCCATGA
TCACAGCTGCTCTCCGGATGTTCATGGAGCTGGGGATGGTACAGAAATTTAAAATTGACTATGAGACACT
GTGTAGGTGGCTTTTGACAGTGAGGAAAAACTATCGGATGGTTCTATACCACAACTGGAGACATGCCTTC
AACGTGTGTCAGCTGATGTTCGCGATGTTAACCACTGCTGGGTTTCAAGACATTCTGACCGAGGTGGAAA
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GCCGTGATGATCCTTCAAAGTGAGGGTCACAATATCTTTGCTAACCTGTCCTCCAAGGAATATAGTGACC
TTATGCAGCTTTTGAAGCAGTCAATATTGGCAACAGACCTCACGCTGTACTTTGAGAGGAGAACTGAATT
CTTTGAACTTGTCAGTAAAGGAGAATACGATTGGAACATCAAAAACCATCGTGATATATTTCGATCAATG
TTAATGACAGCCTGTGACCTTGGAGCCGTGACCAAACCGTGGGAGATCTCCAGACAGGTGGCAGAACTTG
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TGATCGGAACCGGAAGGATGAACTGCCTCGGTTGCAACTGGAGTGGATTGATAGCATCTGCATGCCTTTG
TATCAGGCACTGGTGAAGGTCAACGTGAAACTGAAGCCGATGCTAGATTCAGTAGCTACAAACAGAAGTA
AGTGGGAAGAGCTACACCAAAAACGACTGCTGGCCTCAACTGCCTCATCCTCCCCTGCCAGTGTTATGGT
AGCCAAGGAAGACAGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222400 representing NM_001077197
Red=Cloning site Green=Tags(s)

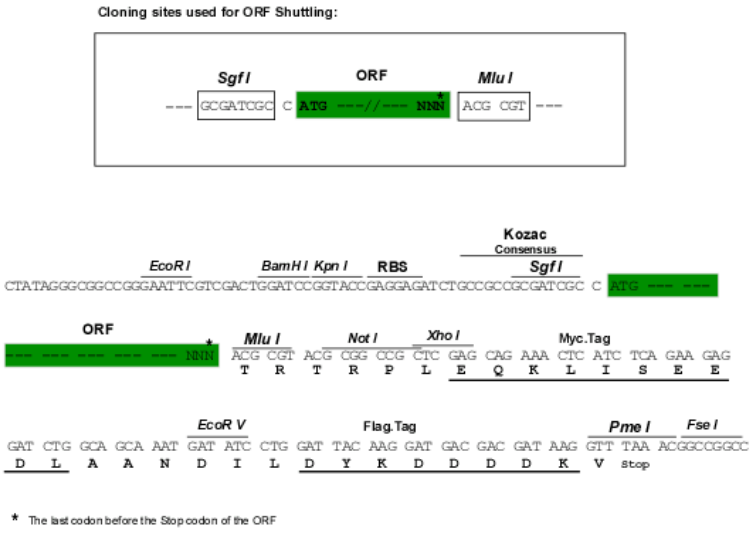
MLKQARRPLFRNVLSATQWKKVKITRLVQISGASLAEKQEKHQDFLIQRQTKTKDRRFNDEIDKLTGYKT
KSLLCMPIRSSDGEIIGVAQAINKIPEGAPFTEDDEKVMQMYLPFCGIAISNAQLFAASRKEYERSRALL
EVVNDLFEEQTDLEKIVKKIMHRAQTLLKCERCSVLLLEDIESPVVKFTKSFELMSPKCSADAENSFKES
MEKSSYSDWLINNSIAELVASTGLPVNISDAYQDPRFDAEADQISGFHIRSVLCVPIWNSNHQIIGVAQV
LNRLDGKPFDDADQRLFEAFVIFCGLGINNTIMYDQVKKSWAKQSVALDVLSYHATCSKAEVDKFKAANI
PLVSELAIDDIHFDDFSLDVDAMITAALRMFMELGMVQKFKIDYETLCRWLLTVRKNYRMVLYHNWRHAF
NVCQLMFAMLTTAGFQDILTEVEILAVIVGCLCHDLDHRGTNNAFQAKSGSALAQLYGTSATLEHHHFNH
AVMILQSEGHNIFANLSSKEYSDLMQLLKQSILATDLTLYFERRTEFFELVSKGEYDWNIKNHRDIFRSM
LMTACDLGAVTKPWEISRQVAELVTSEFFEQGDRERLELKLTPSAIFDRNRKDELPRLQLEWIDSICMPL
YQALVKVNVKLKPMLDSVATNRSKWEELHQKRLLASTASSSPASVMVAKEDRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8072_g10.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001077197

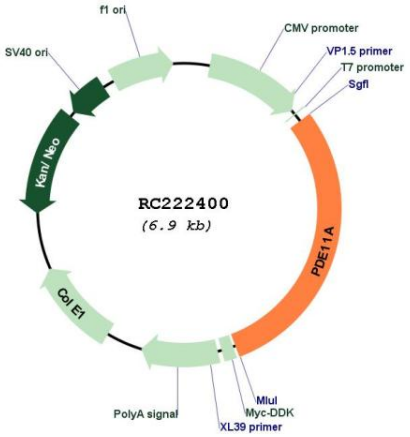
**ORF Size:** 2049 bp

**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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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 |
| **MW:** | 77.9 kDa |
| **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 RC222400