

Product datasheet for **RC211991**

PDE11A (NM_001077358) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE11A (NM_001077358) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC211991 representing NM_001077358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGATGTATCTTCCATTTTGTGGAATCGCCATATCTAACGCTCAGCTCTTGTGCCTCAAGGAAAG
 AATATGAAAGAAGCAGAGCTTTGCTAGAGGTGGTTAATGACCTCTTTGAAGAACAGACTGACCTGGAGAA
 AATTGTCAAGAAAATAATGCATCGGGCCAAAACCTGCTGAAATGTGAACGCTGTTCTGTTTACTCCTA
 GAGGACATCGAATCACCAGTGGTGAATTTACCAAATCCTTTGAATTGATGTCCCAAAGTGCAGTGCTG
 ATGCTGAGAACAGTTTCAAGAAAGCATGGAGAAATCATCACTCCGACTGGCTAATAAATAACAGCAT
 TGCTGAGCTGGTTGCTTCAACAGGCCTCCAGTGAACATCAGTATGCCTACCAGGATCCGCGCTTTGAT
 GCAGAGGCAGACCAGATATCTGGTTTTACATAAGATCTGTTCTTTGTGTCCCTATTTGGAATAGCAACC
 ACCAAATAATTGGAGTGGCTCAAGTGTTAAACAGACTTGTGGGAAACCTTTTGTGATGCAGATCAACG
 ACTTTTTGAGGCTTTTGCATCTTTTGTGGACTTGGCATCAACAACAATTATGTATGATCAAGTGAAG
 AAGTCCTGGGCCAAGCAGTCTGTGGCTCTTGTATGTCTATCATACCATGCAACATGTTCAAAGCTGAAG
 TTGACAAGTTTAAGGCAGCCAACATCCCTCTGGTGTGAGAACTTGCCATCGATGACATTCATTTTGTATGA
 CTTTTCTCTCGACGTTGATGCCATGATCACAGCTGCTCTCCGGATGTTTATGGAGCTGGGGATGGTACAG
 AAATTTAAATTTGACTATGAGACTGTGTAGGTGGCTTTTACAGTGGAGAAAACATCGGATGGTTC
 TATACCACAACGGAGACATGCCTTCAACGTGTGTGAGCTGATGTTTCGCGATGTTAACACTGCTGGGTT
 TCAAGACATCTGACCGAGGTGGAAATTTAGCGGTGATTGTGGGATGCCTGTGCATGACCTCGACCAC
 AGGGGAACCAACAATGCCTTCAAGCTAAGAGTGGCTCTGCCCTGGCCAACTCTATGAACTCTGCTA
 CCTTGGAGCATCAACATTTCAACCACGCGGTGATGATCCTTCAAAGTGGGGTCAACAATCTTTTGTCTAA
 CCTGTCTCCAAGGAATATAGTGACCTTATGCAGCTTTTGAAGCAGTCAATATTGGCAACAGACCTCAGC
 CTGTACTTTGAGAGGAGAACTGAATCTTTGAACTTGTGAGTAAAGGAGAATACGATTGGAACATCAAAA
 ACCATCGTGATATATTTGATCAATGTTAATGACAGCCTGTGACCTTGGAGCCGTGACCAAAACCGTGGGA
 GATCTCCAGACAGGTGGCAGAACTTGTAAACAGTGAATCTTGAACAAGGAGATCGGGAGAGATTAGAG
 CTCAAACACTCCTTCAAGCAATTTTGTATCGGAACCGGAAGGATGAACTGCCTCGGTTGCAACTGGAGT
 GGATTGATAGCATCTGCATGCCTTTGTATCAGGCACTGGTGAAGGTCAACGTGAACTGAAGCCGATGCT
 AGATTCAGTAGCTACAAACAGAAGTAAGTGGGAAGAGCTACACCAAAAACGACTGCTGCCCTCAACTGCC
 TCATCCTCCCCTGCCAGTGTATGGTAGCCAAGGAAGACAGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211991 representing NM_001077358
 Red=Cloning site Green=Tags(s)

MQMYLPFCGIAISNAQLFAASRKEYERSRALLEVNDLFEEQTDLEKIVKIMHRAQTLLKCERCSVLLL
 EDIESPVVKFTKSFELMSPKCSADAENSFKESMEKSSYSIDLINNSIAELVASTGLPVNISDAYQDPRFD
 AEADQISGFHIRSVLCVPIWNSNHQIIGVAQVLNRLDGGKPFDDADQRLFEAFVIFCGLGINNTIMYDQVK
 KSWAKQSVLDVLSYHATCSKAEDVKFKAANIPLVSELAIDDIHFDDFSLDAMDAMITAALRMFMELGMVQ
 KFKIDYETLCRWLLTVRKNYRMVLYHNWRHAFNVCQLMFAMLTAGFQDILTEVEILAVIVGCLCHDLHDH
 RGTNNAFQAKSGSALAQLYGTSALEHHHFNHVMILQSEGHNIFANLSSKEYSDLMQLLKQSILATDLT
 LYFERRTEFFELVSKGEYDWNINKNHRDIFRSMLMTACDLGAVTKPWEISRQVAELVTSEFFEQGDRELER
 LKLTPSAIFDRNRKDELPRQLLEWIDSIICMPYQALVKVNVKLPMLDSVATNRSKWEELHQKRLLASTA
 SSSPASVMVAKEDRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_a08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001077358

ORF Size: 1725 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_001077358.2](#)

RefSeq Size: 1869 bp

RefSeq ORF: 1728 bp

Locus ID: 50940

UniProt ID: [Q9HCR9](#)

Cytogenetics: 2q31.2

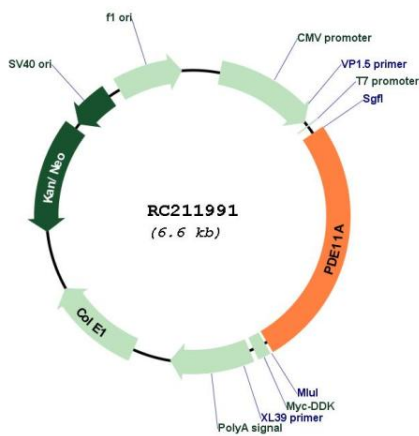
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 65.68 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 RC211991