

Product datasheet for **RC222345**

PDE11A (NM_001077196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE11A (NM_001077196) 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)



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ORF Nucleotide
Sequence:

>RC222345 representing NM_001077196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCAGCCTCCCGCTGGACTTTGGGGAGGTGAAAACCTTCTGGCAGGCACCCAGAGTTGTTTGAAG
 ATTACTTGATGCGGAAGGGGAAGCAGGAGATGGTTGAAAAGTGGCTGCAGAGGCACAGTCAGGGTCAGGG
 GGCTTTAGGTCCAAGGCCCTCTTTGGCTGGTACCAGCAGCTTGGCTCACAGCACCTGCAGAGGTGGCAGC
 AGCGTTGGTGGTGGCACTGGACCAAATGGCTCTGCCACAGCCAGCCCTTCCCGGTGGCGGGGACTGTG
 GTGGGGTTCCCTTGAGTCCCAGCTGGGCCGGTGGCAGCAGGGGCGATGGGAACCTGCAGCGGAGAGCTTC
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 GTGACCTCCCGGGCTCAGGAACCCCTGAGTAGTGTACGACGGAGGGCACTTCTCCGAAGGCAAGCTCCC
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 ATGCTGACCGCTGCTCTTTTTCTGGTGGAAAGGGCAGCTGCTGGCAAGAAGACCTTGGTCTCCAAATT
 CTTTGTATGTCATGCAGGAACCCCTCTGCTGCCTTGCAGCAGCACAGAGAACTCAAATGAGGTGCAGGTC
 CCCTGGGGCAAAGGTATCATTGGCTATGTCCGGGAGCATGGAGAAACGGTCAACATTCCTGATGCCTACC
 AGGATCGACGATTCAATGATGAAATCGACAAGCTAACTGGATACAAGACAAAATCATTATTGTGCATGCC
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 GTGTCCCTATTTGGAATAGCAACCACAAATAATTGGAGTGGCTCAAGTGTAAACAGACTTGATGGGAA
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 AC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222345 representing NM_001077196
 Red=Cloning site Green=Tags(s)

MAASRLDFGEVETFLDRHPELFEDYLMRKGKQEMVEKWLQRHSQQGQALGPRPSLAGTSSLAHSTCRGGS
 SVGGGTGPNQSAHSQPLPGGDCCGGVPLSPSWAGGSRGDGNLQRRASQKELRKSFARSKAIHVNRTYDEQ
 VTSRAQEPLSSVRRRALLRKASSLPPTTAHILSALLESRVNLQPYPTAIDYKCHLKKHNERQFFLELVK
 DISNDLDTLSYKILIFVCLMVDADRCSLFLVEGAAAGKKTLSVKFFDVHAGTPLLPCSSSTENSNEVQV
 PWGKGIIGYVGEHGETVNIIPDAYQDRRFNDEIDKLTGYKTKSLLCPIRSSDGEIIGVAQAINKIPEGAP
 FTEDDEKVMQMYLPFCGIAISNAQLFAASRKEYERSALLEVVNDLFEEQTDLEKIVKKIMHRAQTLLKC
 ERCSVLLLEDIESPVVKFTKSFELMSPKCSADAENSFKESMEKSSYDWLINNSIAELVASTGLPVNISD
 AYQDPRFDAEADQISGFHIRSVLCVPIWNSNHQIIGVAQVLNRLDGKPFDDADQRLFEAFVIFCGLGINN
 TIMYDQVKKSWAKQSVALDVL SYHATCSKAEDVKFKAANIPLVSELAIDDIHFDDFSLDAMDITAALRM
 FMELGMVQKFKIDYETLCRWLLTVRKNYRMVLYHNWRHAFNVCQLMFAMLTAGFQDILTEVEILAVIVG
 CLCHLDLHRGTNNAFQAKSGSALAQLYGT SATLEHHHFNHAVMILQSEGHNIFANLSSKEYSDLMLLQKQ
 SILATDLTYFERRTEFFELVSKGEYDWNKIKNRDIFRSMLMTACDLGAVTKPWEISRQVAELVTSEFFE
 QGDRERLELKLTPSAIFDRNRKDELPRQLLEWIDSI CMPLYQALVKVNVKLPMLDSVATNRSKWEELHQ
 KRLLASTASSSPASVMVAKEDRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

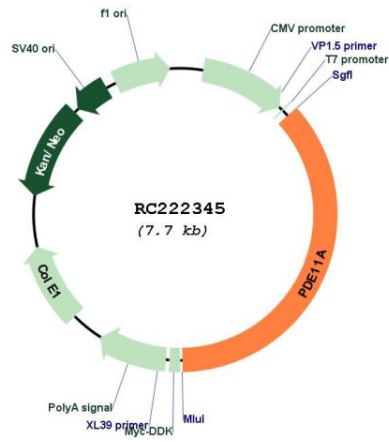


ACCN: NM_001077196

ORF Size: 2802 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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:	<ol style="list-style-type: none"> 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 Size:	7786 bp
RefSeq ORF:	1470 bp
Locus ID:	50940
UniProt ID:	Q9HCR9
Cytogenetics:	2q31.2
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	104.81 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 RC222345