

Product datasheet for **SC315574**

PDE11A (NM_001077196) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE11A (NM_001077196) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE11A
Synonyms:	PPNAD2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001077196, the custom clone sequence may differ by one or more nucleotides ATGTCCCCAAAGTGCAGTGCTGATGCTGAGAACAGTTTCAAAGAAAGCATGGAGAAATCA TCATACTCCGACTGGCTAATAAATAACAGCATTGCTGAGCTGGTTGCTTCAACAGGCCTT CCAGTGAACATCAGTGATGCCTACCAGGATCCGCGCTTTGATGCAGAGGCAGACCAGATA TCTGGTTTTACATAAGATCTGTTCTTTGTGTCCTATTTGGAATAGCAACCACCAAATA ATTGGAGTGGCTCAAGTGTAAACAGACTTGATGGGAAACCTTTTGTATGCAGATCAA CGACTTTTTGAGGCTTTTGCATCTTTTGTGGACTTGGCATCAACAACACAATTATGTAT GATCAAGTGAAGAAGTCTGGGCAAGCAGTCTGTGGCTTTGATGTGCTATCATACCAT GCAACATGTTCAAAGCTGAAGTTGACAAGTTTAAAGGCAGCCAACATCCCTCTGGTGCA GAACTTGGCATCGATGACATTCATTTTGTGACTTTTCTCTCGACGTTGATGCCATGATC ACAGCTGCTCTCCGGATGTTTATGGAGCTGGGGATGGTACAGAAATTTAAAATTGACTAT GAGACACTGTGTAGGTGGCTTTTACAGTGAGGAAAAACTATCGGATGGTTCTATACCAC AACTGGAGACATGCCTTCAACGTGTGTCAGCTGATGTTTCGCGATGTTAACCCTGCTGGG TTTCAAGACATTCTGACCGAGGTGGAAATTTTACGGGTGATTGTGGGATGCCTGTGTCAT GACCTCGACCACAGGGGAACCAACAATGCCTTCCAAGCTAAGAGTGGCTCTGCCCTGGCC CAACTCTATGGAACCTCTGCTACCTTGGAGCATCACCATTTCAACCACGCGTGATGATC CTTCAAAGTGAGGTCACAATATCTTTGCTAACCTGTCCCTCAAGGAATATAGTGACCTT ATGCAGCTTTTGAAGCAGTCAATATTGGCAACAGACCTCACGCTGTACTTTGAGAGGAGA ACTGAATCTTTGAACTTGTGAGTAAAGGAGAATACGATTGGAACATCAAAAACCATCGT GATATATTTGATCAATGTTAATGACAGCCTGTGACCTTGGAGCCGTGACCAAACCGTGG GAGATCTCCAGACAGGTGGCAGAACTTGTAAACCAGTGAGTTCTTCAACAAGGAGATCGG GAGAGATTAGAGCTCAAACCTCACTCCTCAGCAATTTTTGATCGGAACCGGAAGGATGAA CTGCCTCGTTGCAACTGGAGTGGATTGATAGCATCTGCATGCCTTTGTATCAGGCACTG GTGAAGGTCAACGTGAACTGAAGCCGATGCTAGATTGATGCTACAAACAGAAGTAAG TGGGAAGAGCTACACCAAAAACGACTGCTGGCCTCAACTGCCTCATCCTCCCTGCCAGT GTTATGGTAGCCAAGGAAGACAGGAAC
Restriction Sites:	Please inquire
ACCN:	NM_001077196



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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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001077196.1](#), [NP_001070664.1](#)

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

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]

Transcript Variant: This variant (1) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 4. The resulting isoform (1) has a shorter N-terminus, compared to isoform 4.