

Product datasheet for **SC315594**

PDE11A (NM_001077358) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDE11A (NM_001077358) Human Untagged Clone
Tag: Tag Free
Symbol: PDE11A
Synonyms: PPNAD2
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001077358, the custom clone sequence may differ by one or more nucleotides

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ATGCAGATGTATCTTCCATTTTGTGGAATCGCCATATCTAACGCTCAGCTCTTTGCTGCC
TCAAGGAAAGAATATGAAAGAAGCAGAGCTTTGCTAGAGGTGGTTAATGACCTCTTTGAA
GAACAGACTGACCTGGAGAAAATTGTCAAGAAAATAATGCATCGGGCCAAACTCTGCTG
AAATGTGAACGCTGTTCTGTTTTACTCCTAGAGGACATCGAATCACCAGTGGTGAATTT
ACCAAATCCTTTGAATTGATGTCCCAAAGTGCAGTGCTGATGCTGAGAACAGTTTCAA
GAAAGCATGGAGAAATCATCATACTCCGACTGGCTAATAAATAACAGCATTGCTGAGCTG
GTTGCTTCAACAGGCCTCCAGTGAACATCAGTGATGCCTACCAGGATCCGCGCTTGGAT
GCAGAGGCAGACCAGATATCTGGTTTTACATAAGATCTGTTCTTTGTGTCCCTATTTGG
AATAGCAACCACCAAATAATTGGAGTGGCTCAAGTGTTAAACAGACTTGATGGGAAACCT
TTTGATGATGCAGATCAACGACTTTTTGAGGCTTTTGTGCATCTTTTGTGGACTTGGCATC
AACAAACAATTATGTATGATCAAGTGAAGAAGTCTGGGCCAAGCAGTCTGTGGCTCTT
GATGTGCTATCATACCATGCAACATGTTCAAAGCTGAAGTTGACAAGTTAAGGCAGCC
AACATCCCTCTGGTGTGAGAAGTGGCCATCGATGACATTCATTTTGTGACTTTTCTCTC
GACGTTGATGCCATGATCACAGCTGCTCTCCGGATGTTTCATGGAGCTGGGGATGGTACAG
AAATTTAAAATTGACTATGAGACACTGTGTAGGTGGCTTTTGCAGTGAGGAAAAACTAT
CGGATGGTTCTATACCACAACTGGAGACATGCCTTCAACGTGTGTCAGCTGATGTTCCGG
ATGTTAACCACTGCTGGTTTTCAAGACATTCTGACCGAGGTGGAAATTTAGCGGTGATT
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AGTGGCTCTGCCCTGGCCAACTCTATGGAACCTCTGCTACCTTGGAGCATCACCATTTT
AACACGCGTGATGATCCTTCAAAGTGAGGGTCAACAATATCTTTGCTAACCTGCTCTCC
AAGGAATATAGTGACCTTATGCAGCTTTTGAAGCAGTCAATATTGGCAACAGACCTCAG
CTGTACTTTGAGAGGAGAACTGAATTCTTTGAACTTGTCAGTAAAGGAGAATACGATTGG
AACATCAAAAACCATCGTGATATATTTGATCAATGTTAATGACAGCCTGTGACCTTGG
GCCGTGACCAAAACCGTGGGAGATCTCCAGACAGTGGCAGAACTTGTAAACAGTGAGTTC
TTGAAACAAGGAGATCGGGAGAGATTAGAGCTCAAACCTACTCCTTCAGCAATTTTTGAT
CGGAACCGGAAGGATGAACTGCCTCGGTTGCAACTGGAGTGGATTGATAGCATCTGCATG
CCTTTGTATCAGGCACTGGTGAAGGTCAACGTGAAACTGAAGCCGATGCTAGATTCAGTA
GCTACAACAGAAGTAAGTGGGAAGAGCTACACCAAAAACGACTGCTGGCCTCAACTGCC
TCATCCTCCCCTGCCAGTGTATGGTAGCCAAGGAAGACAGGAAC
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Restriction Sites:	Please inquire
ACCN:	NM_001077358
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<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:	<u>NM_001077358.1</u> , <u>NP_001070826.1</u>
RefSeq Size:	1869 bp
RefSeq ORF:	1728 bp
Locus ID:	50940
UniProt ID:	<u>Q9HCR9</u>
Cytogenetics:	2q31.2
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 4. The resulting isoform (2) has a shorter N-terminus, compared to isoform 4.</p>