

Product datasheet for SC125346

PDE11A (NM_016953) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PDE11A (NM_016953) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PDE11A |
| Synonyms: | PPNAD2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC125346 sequence for NM_016953 edited (data generated by NextGen Sequencing) |

```

ATGGCAGCCTCCCGCCTGGACTTTGGGGAGGTGGAACTTTCCTGGACAGGCACCCAGAG
TTGTTTGAAGATTACTTGATGCGGAAGGGGAAGCAGGAGATGGTTGAAAAGTGGCTGCAG
AGGCACAGTCAGGGTCAGGGGGCTTTAGGTCCAAGGCCCTCTTTGGCTGGTACCAGCAGC
TTGGCTCACAGCACCTGCAGAGGTGGCAGCAGCGTTGGTGGTGGCACTGGACAAATGGC
TCTGCCACAGCCAGCCCTTCCCGGTGGCGGGGACTGTGGTGGGGTTCCCTTGAGTCCC
AGCTGGGCGGTGGCAGCAGGGGCGATGGGAACCTGCAGCGGAGAGCTTCTCAGAAAGAG
CTAAGGAAGAGTTTTGCCGCTCCAAGGCCATCCACGTGAACAGGACCTACGATGAACAG
GTGACCTCCCGGGCTCAGGAACCCCTGAGTAGTGTACGACGGAGGGCACTTCTCCGGAAG
GCAAGCTCCCTGCCCCACCACAGCCATATTCTCAGTGCCTGCTGGAATCGAGAGTG
AATCTGCCTCAGTATCCCCCTACAGCCATCGACTACAAGTGCCATCTGAAAAAGCATAAT
GAGTGTCAGTTCTTTCTGGAATTGGTCAAAGATATCTCCAATGACCTTGACCTCACCAGC
CTGAGCTACAAGATTCTCATCTTTGTCTGCCTTATGGTGGATGCTGACCGCTGCTCTCTT
TTCTGGTGAAGGGGCAGCTGCTGGCAAGAAGACCTTGGTCTCCAAATCTTTGATGTG
CATGCAGGAACCCCTCTGCTGCCTTGCAGCAGCACAGAGAACTCAATGAGGTGCAGGTC
CCCTGGGGCAAAGGTATCATTGGCTATGTCGGGAGCATGGAGAAACGGTCAACATTCT
GATGCCTACCAGGATCGACGATTCAATGATGAAATCGACAAGCTAACTGGATAACAAGACA
AAATCATTATTGTGCATGCCTATCCGAAGCAGTGATGGTGAGATTATTGGTGTGGCCCAA
GCGATAAATAAGATTCTGAAGGAGCTCCATTTACTGAAGATGATGAAAAAGTTATGCAG
ATGTATCTTCCATTTTGTGGAATCGCCATATCTAACGCTCAGCTCTTTGCTGCCTCAAGG
AAAGAATATGAAAGAAGCAGAGCTTTGCTAGAGGTGGTTAATGACCTCTTTGAAGAACAG
ACTGACCTGGAGAAAATTGTCAAGAAAATAATGCATCGGGCCCAAACCTGCTGAAATGT
GAACGCTGTTCTGTTTTACTCCTAGAGGACATCGAATCACCAGTGGTGAATTTACCAA
TCCTTTGAATTGATGTCCCAAAGTGCAGTGTGATGCTGAGAACAGTTTCAAAGAAAGC
ATGGAGAAATCATACTCCGACTGGCTAATAAATAACAGCATTGCTGAGCTGGTTGCT
TCAACAGGCCCTCCAGTGAACATCAGTGATGCCTACCAGGATCCGCGCTTTGATGCAGAG

```



[View online »](#)

GCAGACCAGATATCTGGTTTTACATAAGATCTGTTCTTTGTGTCCCTATTTGGAATAGC
 AACCCAAATAATTGGAGTGGCTCAAGTGTTAAACAGACTTGATGGGAAACCTTTTGT
 GATGCAGATCAACGACTTTTTGAGGCTTTTGTGTCATCTTTTGTGGACTTGGCATCAACAAC
 ACAATTATGTATGATCAAGTGAAGAAGTCTGGGCCAAGCAGTCTGTGGCTTTGATGTG
 CTATCATACCATGCAACATGTTCAAAGCTGAAGTTGACAAGTTAAGGCAGCCAACATC
 CCTCTGGTGTGAGAAGTGGCATCGATGACATTCATTTTGTGACTTTTCTCGACGTT
 GATGCCATGATCACAGTGTCTCCGGATGTTTCATGGAGCTGGGGATGGTACAGAAATTT
 AAAATTGACTATGAGACACTGTGTAGGTGGCTTTTGACAGTGAGGAAAACTATCGGATG
 GTTCTATACCACTGAGACATGCCTTCAACGTGTGTCAGCTGATGTTTCGCGATGTTA
 ACCACTGCTGGGTTTCAAGACATTCTGACCGAGGTGAAAATTTAGCGGTGATTGTGGGA
 TGCCTGTGTATGACCTCGACCAGGGGAACCAACAATGCCTTCCAAGCTAAGAGTGGC
 TCTGCCCTGGCCAACTCTATGGAACCTCTGCTACCTGGAGCATCACCATTTCAACCAC
 GCCGTGATGATCCTTCAAAGTGAGGTCACAATATCTTTGCTAACCTGCTCCTCAAGGAA
 TATAGTGACCTTATGCAGCTTTTGAAGCAGTCAATATTGGCAACAGACCTCACGCTGTAC
 TTTGAGAGGAGAAGTGAATCTTTGAACTTGTCAGTAAAGGAGAATACGATTGGAACATC
 AAAAACCATCGTGATATATTTTCGATCAATGTTAATGACAGCCTGTGACCTTGGAGCCGTG
 ACCAAACCGTGGGAGATCTCCAGACAGGTGGCAGAACTTGTAAACAGTGAGTTCTTCGAA
 CAAGGAGATCGGGAGAGATTAGAGCTCAAACCTCACTCCTTTCAGCAATTTTGTGCGAAC
 CGGAAGGATGAACTGCCTCGGTTGCAACTGGAGTGGATTGATAGCATCTGCATGCCTTTG
 TATCAGGCACTGGTGAAGGTCAACGTGAACTGAAGCCGATGCTAGATTGAGTAGCTACA
 AACAGAAGTAAGTGGGAAGACTACACCAAAAACGACTGCTGGCCTCAACTGCCTCATCC
 TCCCTGCCAGTGTATGGTAGCCAAGGAAGACAGGAATA

Clone variation with respect to NM_016953.3
 551 g=>a;604 c=>t;792 a=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016953 unedited
 GCGAATTCGGCACCAGGAATAATCTCCAGGGGAGGTGGCGCTGAACTGGGAATACTGGTG
 GGGGTGAACATGTGCAGGAACAGCTAGAGGCCTCGGGCAGGAAAACATTTGGTTCACGT
 GTAACACAGGCAAGGAAAGGCTGTCTGGGACCATGGCAGCCTCCCGCCTGGACTTTGGGGA
 GGTGGAACCTTTCTGGACAGGCACCCAGAGTTGTTTGAAGATTCCCTTGATGCGGAAGG
 GGAAGCAGGAGATGGTTGAAAAGTGGCTGCAGAGGCACAGTCAGGGTCAGGGGGCTTTAG
 GTCCAAGGCCCTCTTTGGCTGGTACCAGCAGCTTGGCTCACAGCACCTGCAGAGGTGGCA
 GAGCGTTGGTGGTGGCACTGGACCAAATGGCTCTGCCACAGCCAGCCCTTCCGNTGGC
 GGACTNTNNNNNNGGNNTTCCCTTTGAGTCCCAGCTGGGCCGGGTGGCAGCAGGGGCCG
 ATGGGGAACCTGCAACGGAGAGCTTTCTCAGAAAGAGCTAAGGGAAGGAGTTTTTGCCCG
 TTCCAAGGGCCATCCACGTGAACCAGGACTTACGATGAACAGGGTGACCTTCCCGGGCTC
 AGGGACCCCTGAGTAGTGTACGACCGAAGGGCACTTTCCGGAAGGCAGGCTCCTTGCCCC
 CCACACAGCCATTTTCTAGTGCCCTGCTGAATCGAAAGTGAATCTGCCTAATATCCCCT
 ACACCATGGCTACAAGGGCATTGAAAAGATAAGGNGGGCATTCTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_016953

Insert Size:

5000 bp

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).

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_016953.2](#), [NP_058649.2](#)

RefSeq Size: 4476 bp

RefSeq ORF: 2805 bp

Locus ID: 50940

UniProt ID: [Q9HCR9](#)

Cytogenetics: 2q31.2

Domains: PDEase, GAF, HDc

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 (4) represents the longest transcript and encodes the longest isoform (4).