

Product datasheet for **RC226195**

PDE4A (NM_001111309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4A (NM_001111309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE4A
Synonyms:	DPDE2; PDE4; PDE46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC226195 representing NM_001111309
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGCTCCGGTGCAGCGCCCCGGGCCCGGCCCGCCCTGCCCTGGCACTGCCCCCCACGGGCCCG
 AGTCCCTGACCCACTTCCCTTCAGCGATGAGGACACCCGTCGGCACCCCTCCGGGCAGATCTGTCAGCTT
 CGAGGCAGAGAATGGGCCGACACCATCTCTGGCCGACGCCCTGGACTCGCAGGCGAGCCAGGACTC
 GTGCTGCACGCCGGGGGCCACCCAGCCAGCGCCGGGAGTCCTTCTGTACCGCTCAGACAGCGACTATG
 ACATGTACCCAAAGACCATGTCCCGAACTCATCGGTACCAGCGAGGCGCACGCTGAAGACCTCATCGT
 AACACATTTGCTCAGGTGCTGGCCAGCCTCCGGAGCGTCCGTAGCAACTTCTCACTCCTGACCAATGTG
 CCCGTTCCAGTAACAAGCGGTCCCGCTGGGCGGCCACCCCTGTCTGCAAGGCCACGCTGTGAGAAG
 AACGTGTGAGCAGTTGGCCGGGAGACTCTGGAGGAGCTGGACTGGTGTCTGGAGCAGCTGGAGACCAT
 GCAGACCTATCGCTCTGTGAGCGAGATGGCCTCGCACAAGTTCAAAGGATGTTGAACCGTGAGCTCACA
 CACCTGTGAGAAATGAGCAGTCCGGAAACAGGTCTCAGAGTACATTTCCACAACATTCCTGGACAAC
 AGAATGAAGTGGAGATCCCATCACCCACGATGAAGGAACGAGAAAAACAGCAAGCGCCGCGACCAAGACC
 CTCCAGCCGCCCCCGCCCCCTGTACCACACTTACAGCCCATGTCCCAAATCACAGGGTTGAAAAAGTTG
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 TGGCCCAAGAACTGGAGAACCTGAACAAGTGGGCGCTGAACATCTTTTGGCGTGTGGGATTACGCTGGAGG
 CCGCTCACTCACCTGCATCATGTACATGATTTCCAGGAGCGGGACCTGCTGAAGAAATCCGCATCCCT
 GTGGACACGATGGTGACATACATGCTGACGCTGGAGGATCACTACCACGCTGACGTGGCTACCATAACA
 GCCTGCACGCAGCTGACGTGCTGACGCTCACCCACGTAAGTGTGCTGGCCACGCTGCACTAGATGATGTT
 CACGGACCTGGAGATTCTCGCCGCCCTTTCGCGGCTGCCATCCACGATGTGGATCACCTGGGGTCTCC
 AACCAAGTTCCTCATCAACACCAATTCGGAGCTGGCGCTCATGTACAACGATGAGTCGGTGTGAGAAATC
 ACCACCTGGCCGTGGGCTTCAAGCTGCTGCAGGAGGACAACCTGCGACATCTTCCAGAACCTCAGCAAGCG
 CCAGCGGCAGAGCCTACGCAAGATGGTCATCGACATGGTGTGGCCACGGACATGTCCAAGCACATGACC
 CTCCTGGCTGACCTGAAGACCATGGTGGAGACCAAGAAAGTACCAGCTCAGGGGCTCCTCTGCTAGATA
 ACTACTCCGACCGCATCCAGTCTCCGGAACATGGTGCCTGTGCCGACCTCAGCAACCCACCAAGCC
 GCTGGAGCTGTACCGCCAGTGGACAGCCGCATCATGGCCGAGTCTTCCAGCAGGGTGACCGAGAGCGC
 GAGCGTGGCATGGAATCAGCCCATGTGTGACAAGCACACTGCCTCCGTGGAGAAGTCTCAGGTGGGTT
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 GAGGAGGAGTCAAGGGGGCCAGGCCACCCACCCCTGCCTGACAAGTTCAGTTTGGAGCTGACGCTGGAGG
 AGGAAGAGGAGGAAGAAATATCAATGGCCAGATACCGTGCACAGCCCAAGAGGCATTGACTGCGCAGGG
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 CCACAGGCAGTGACCTGTGGCTCCGGATGAGTCTCGTCCCGGGAGGAATTCGTGGTTGCTGTAAGCCA
 CAGCAGCCCTCTGCCCTGGCTCTTCAAAGCCCCCTTCTCCCTGCTTGGAGGACCCTGTCTGTTTCAGAG
 CATGCCCCGGGCTCCCGGCCCTCCCTCCACGGCGGCCGAGGTGGAGGCCCAACGAGAGCACCAGGCTG
 CCAAGAGGGCTTGCAGTGCCTGCGCAGGACATTTGGGAGGACACATCCGCACTCCAGCTCCTGGTGG
 CGGGGGTGAGTGGAGACCTACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226195 representing NM_001111309
 Red=Cloning site Green=Tags(s)

MRSGAAPRARPRPPALALPPTGPESLTHFPFSDIEDTRRHPPGRSVSFEAENGPTSPGRSPLDSQASPL
 VLHAGAATSQRRESFLYRSDSDYDMSPKTMSRNSSVTSEHAEDLIVTPFAQVLASLRSVRSNFSLLTNV
 PVPSNKRSPGGPTPVCKATLSEETCQQLARETLEELDWCLEQLETMQTYRSVSEMASHKFKRMLNRELT
 HLSEMSRSGNQSEYIISTTFLDKQNEVEIPSPTMKEREKQAPRPRPSQPPPPVPHLQPMSQITGLKKL
 MHSNSLNNSNIPRFGVKTDQEELLAQELENLNKWGLNIFCVSDYAGGRSLTCIMYMIQERDLLKKFRIP
 VDTMVTYMLTLEDHYHADVAYHNSLHAADVLSQTHVLLATPALDAVFTDLEILAALFAAAIHDVDHPGVS
 NQFLINTNSELALMYNDESVLENHHLAVGFKLLQEDNCDIFQNLKRQRQSLRKMVIDMVLATDMSKHMT
 LLADLKTVMETKVTSSGVLLLDNYSDRIQVLRNMVHCADLSNPTKPLELYRQWTDRIAEFFQQGDRER
 ERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETWADLVHPDAQEILDTELDNRDWYYSAIRQSPSPPP
 EEEESRGPGHPLPDKFQFELTEEEEEEEISMAQIPCTAQEALTAQGLSGVEEALDATIWEASPAQESL
 EVMAQEASLEAELEAVYLTQQAQSTGSAPVAPDEFSSREEFVVAVSHSSPSALALQSPLLPAWRTLVSVE
 HAPGLPGLPSTAAEVEAQREHQAAKRACSACAGTFGEDTSALPAPGGGGSGGDP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001111309

ORF Size: 2475 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_001111309.1](#), [NP_001104779.1](#)

RefSeq ORF: 2478 bp

Locus ID: 5141

UniProt ID: [P27815](#)

Cytogenetics: 19p13.2

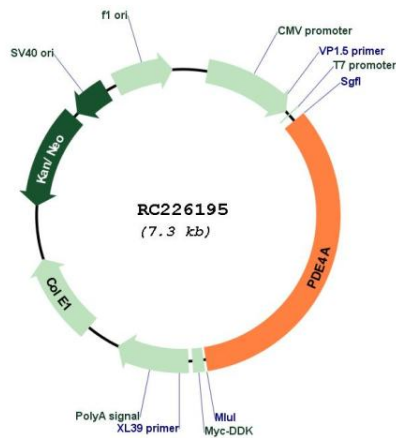
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 91.1 kDa

Gene Summary: The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE4 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]

Product images:



Circular map for RC226195