

Product datasheet for **RC234973**

PDE4A (NM_001243121) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4A (NM_001243121) 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)



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ORF Nucleotide
Sequence:

>RC234973 representing NM_001243121
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAGGAGTCGCAGTGCCCTGTCCGTGGCAGGGACCGGGACGAGAGGTCGAGGGAGACCCCGAAT
 CCGACCGTGCCAACATGCTGGGGGCCGACCTGCGTCGCCCTCGCCGCCCTCTCGTCCGGTCTGGCCT
 GGGCTGGGCCAGCCTGAGCCCTCGGACCTGGGGTCCCTCTGCCGCCACGGCCACCACCTGCCGCTG
 CTGATCCACCGCGGATTTCCATCACCAGGGCCGAGAACGACAGCTTCGAGGCAGAGAATGGGCCGACAC
 CATCTCTGGCCGAGCCCTGGACTCGCAGGGCAGCCAGGACTCGTGTGCACGCCGGGGCGGCCAC
 CAGCCAGCGCCGGGAGTCCTTCTGTACCCTCAGACAGCGACTATGACATGTCACCCAAGACCATGTCC
 CGAACTCATCGTCCAGCGAGGGCAGCGTGAAGACCTCATCGTAACACCATTTGCTCAGGTGCTGG
 CCAGCCTCCGGAGCGTCCGTAGCAACTTCTCACTCCTGACCAATGTGCCGTTCCAGTAACAAGCGGTC
 CCCGCTGGGCGGCCACCCCTGTCTGCAAGGCCACGCTGTGAGAAGAACTGTGACGAGTTGGCCCGG
 GAGACTCTGGAGGAGCTGGACTGGTGTCTGGAGCAGCTGGAGACCATGCAGACCTATCGCTCTGTACGG
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 CGGAAACCAGGTCTCAGAGTACATTTCCACAACATTCCTGGACAAACAGAATGAAGTGGAGATCCCATCA
 CCCACGATGAAGGAACGAGAAAAACAGCAAGCGCCGCGACCAAGACCCCTCCAGCCGCCCCCGCCCTG
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 CTCTAACATTCCCGATTTGGGGTGAAGACCGATCAAGAAGAGCTCCTGGCCAAAGAACTGGAGAACCTG
 AACAAAGTGGGCGCTGAACATCTTTGCGTGTGGATTACGCTGGAGGCCGCTCACTCACCTGCATCATGT
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 GCTGACGCTGGAGGATCACTACCACGCTGACGTGGCCTACCATAACAGCCTGCACGACGCTGACGTGCTG
 CAGTCCACCCACGTAAGTGTGGCCACGCTGCACTAGATGCAGTGTTCACGGACCTGGAGATTCTCGCCG
 CCCTCTTCGCGGCTGCCATCCACGATGTGGATCACCTGGGGTCTCCAACCAGTTCCTCATCAACACCAA
 TTCGGAGCTGGCGCTCATGTACAACGATGAGTCGGTGTCTCGAGAATCACCACTGGCCGTGGGCTTCAAG
 CTGCTGCAGGAGGACAACCTGCGACATCTCCAGAACCTCAGCAAGCGCCAGCGGCAGAGCCTACGCAAGA
 TGGTCAATGCACATGGTGTGGCCACGGACATGTCCAAGCAGATGACCTCCTGGTGCATGAAGACCAT
 GGTGGAGACCAAGAAAGTGACCAGCTCAGGGTCTCCTGCTAGATAACTACTCCGACCGCATCCAGGTC
 CTCGGAAACATGGTGCATGTGCCGACCTCAGCAACCCACCAAGCCGCTGGAGCTGTACCGCCAGTGGA
 CAGACCGCATCATGGCCGAGTCTTCCAGCAGGGTGACCGAGAGCGCGAGCGTGGCATGGAATCAGCCC
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 TTGTGGGAGACCTGGGCGGACCTGTCCACCCAGATGCCAGGAGATCTTGGACACTTTGGAGGACAACC
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 GCAGGGACATTTGGGGAGGACACATCCGCACTCCAGCTCCTGGTGGCGGGGGTTCAGGTGGAGACCCTA
 CC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234973 representing NM_001243121
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MKRSRSALSVAGTGDERSRETPESTRANMLGADLRRPRRLSSGPGLGWAQPEPSDPGVPLPPRPTTLPL
 LIPPRISITRAENDSFEAENGPTSPGRSPLDSQASPLVLHAGAATSQRRESFLYRSDSDYDMSPKTMS
 RNSSVTSEAAHEDLIVTFFAQVLAASLRVRSNFSLLTNVPVPSNKRSPGTPVCKATLSEETCQQLAR
 ETLEELDWCLEQLETMQTYRSVSEMASHKFKRMLNRELTHLSEMSRSGNQVSEYISTTFLDKQNEVEIPS
 PTMKEREKQAPRPRPSQPPPPVPHLQPMQITGLKKLMHSNLSNNSNIPRFGVKTDQEELLAQLENL
 NKWGLNIFCVSDYAGGRSLTICIMYIFQERDLLKKFRIPVDTMVTYMLTLEDHYHADVAYHNSLHAADV
 QSTHVLLATPALDAVFTDLEILAALFAAAIHDVDHPGVSNQFLINTNSELALMYNDESVLENHHLAVGFK
 LLQEDNCDIFQNL SKRQRQSLRKMVIDMVLATDMSKHMTLLADLKT MVETKVTSSGVLLLDNYSRIQV
 LRNMVHCADL SNPTKPLELYRQWTDRI MAEFFQ QGDRERERGMEISPMCDKHTASVEKSQVGFIDYIVHP
 LWETWADLVHPDAQEILDTELDNRDWYYSAIRQSPSPPEEESRGP GHPPLPDKFQFEL TLEEEEEEEIS
 MAQIPCTAQEALTAQGLSGVEEALD AIAWEASPAQESLEVMQAQEALEAEAVYLTQQAQSTGSAPVA
 PDEFSSREEFVAVSHSSPSALALQSPLLPAWRTL SVSEHAPGLPGLPSTAAEVEAQREHQAAKRACSAC
 AGTFGEDTSALPAPGGGSGGDPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

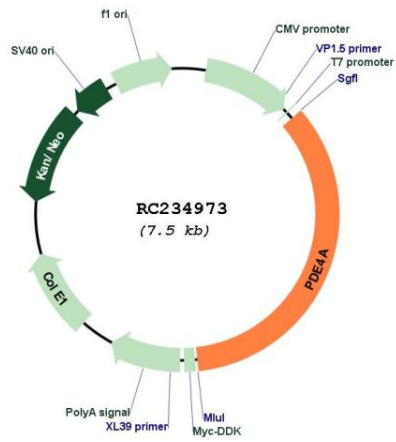
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001243121
ORF Size:	2592 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:	<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:	NM_001243121.1 , NP_001230050.1
RefSeq Size:	4704 bp
RefSeq ORF:	2595 bp
Locus ID:	5141
UniProt ID:	P27815
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	96 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 RC234973