

Product datasheet for **RC226216**

PDE4A (NM_001111308) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4A (NM_001111308) 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:

>RC226216 representing NM_001111308
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGCCGCGCGCCCTAGGCCGATCCCGAGCTGCAACTGGTGGCCTTCCCGGTGGCGGTGGCGG
 CTGAGGACGAGGGTTCCCTGCCGAGCCCTGGCCCCGCGCGCCCCCGCCGCGTTTCGCCGCCCTC
 CTCGCCGCTTTCTTCGCCAGCCGTCGCCAACTTTCGCCAGACGCTTCGGCTTCTCCGACGTGCCAG
 GATTTGGGCCGCCAGGCTTGGGCTGGGGCTGGCTTCGAGGCAGAGAATGGGCCGACACCATCTCCTGGCC
 GCAGCCCCCTGGACTCGCAGGCGAGCCAGGACTCGTGTGCACGCCGGGGCGGCCACCAGCCAGCGCCG
 GGAGTCTTCTGTACCGCTCAGACAGCGACTATGACATGTACCCAAGACCATGTCCCGGAACTCATCG
 GTCACCAGCGAGGCGCACGCTGAAGACCTCATCGTAACACCATTGCTCAGGTGTGGCCAGCCTCCGGA
 GCGTCCGTAGCAACTTCTACTCCTGACCAATGTGCCCGTCCCAGTAACAAGCGGTCCCGCTGGCGGG
 CCCCACCCTGTCTGCAAGGCCACGCTGTGAGAAGAACTGTGACAGTTGGCCGGGAGACTCTGGAG
 GAGCTGGACTGGTGTCTGGAGCAGCTGGAGACCATGCAGACCTATCGCTCTGTACGCGAGATGGCCTCGC
 ACAAGTTCAAAAGGATGTTGAACCGTGAGCTCACACACCTGTGAGAAATGAGCAGGTCCGGAAACCAGGT
 CTCAGAGTACATTTCCACAACATTCCTGGACAAACAGAATGAAGTGGAGATCCCATCACCCACGATGAAG
 GAACGAGAAAAACAGCAAGCGCCGACCAAGACCCTCCAGCCGCCCCCGCCCTGTACCACACTTAC
 AGCCCATGTCCCAATCACAGGGTTGAAAAAGTTGATGCATAGTAACAGCCTGAACAACCTAACATTCC
 CCGATTTGGGGTGAAGACCGATCAAGAAGACTCCTGGCCCAAGAACTGGAGAACCTGAACAAGTGGGGC
 CTGAACATCTTTGCGTGTGGATTACGCTGGAGGCCGCTCACTACCTGCATCATGTACATGATATTCC
 AGGAGCGGGACCTGTGAAGAAATTCGCATCCCTGTGGACAGGATGGTACATACATGCTGACCTGGA
 GGATCACTACCACGCTGACGTGGCTACCAATAACAGCCTGCACGAGCTGACGTGCTGCAGTCCACCCAC
 GACTGTGGCCACGCTGCACTAGATGCAAGTTCACGACCTGGAGATTCTCGCCGCCCTCTTCGCGG
 CTGCCATCCAGATGTGGATCACCTGGGGTCTCCAACCAGTTCTCATCAACACCAATTCGGAGCTGGC
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 GACAACCTGCGACATCTCCAGAACCTCAGCAAGCGCCAGCGGCAGAGCCTACGCAAGATGGTATCGACA
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 GAAAGTGACCAGCTCAGGGTCTCCTGTAGATAACTACTCCGACCGCATCCAGGTCTCCGGAACATG
 GTGCACTGTGCCACCTCAGCAACCCACCAAGCCGCTGGAGCTGTACCGCCAGTGGACAGACCGCATCA
 TGGCCGAGTTCTCCAGCAGGGTGACCGAGAGCGGAGCGTGGCATGGAATCAGCCCCATGTGTGACAA
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 GCCTGACAAGTTCCAGTTTGAAGTGTGACGCTGGAGGAGGAAGAGGAGGAAGAAATATCAATGGCCAGATA
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ACCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226216 representing NM_001111308
 Red=Cloning site Green=Tags(s)

MARPRGLGRIPELQLVAFPVAVAAEAEFLPEPLAPRAPRRRSPSPVFFASPSPTFRRLRLLRSCQ
 DLGRQAWAGAGFEAENGPTSPGRSPLDSQASPLVLHAGAATSQRRESFLYRSDSDYDMSPKTMSRNS
 VTSEAHADLIVTFFAQVLASLRVRSNF SLL TNVPVPSNKRSP LGGPTPVCKATLSEETCQQLARETLE
 ELDWCLEQLETMQTYRSVSEMAHKFKRMLNREL THLSEMSRSGNQVSEYISTTFLDKQNEVEIPSPTMK
 EREKQAPRRRPSQPPPPVPHLQPM SQITGLKKLMHSNSLNNSNIPRFVKTQDELLAQELENLNKWG
 LNIFCVSDYAGGRSLTCIMYMIFQERDLLKKFRIPVDTMVTYMLTLEDHYHADVAYHNSLHAADV LQSTH
 VLLATPALDAVFTDLEILAALFAAAIHDVDHPGVSNQFLINTNSELALMYNDES VLENHHLAVGFKLLQE
 DNCDIFQNL SKRQRQLRKMVIDMVLATMSKHM TLLADLKT MVETKVTSSGVLLLDNYS DRIQVLRNM
 VHCADLSNPTKPLEL YRQWTD RIMAEFFQGDRE RERGMEI SPMCDKHTASVEKSQVGFIDYIVHPLWET
 WADLVHPDAQEILD TLEDNRDWYSAIRQSPSPPEEESRGP GHPPLPDKFQFEL TLEEEEEEEI SMAQI
 PCTAQEALTAQGLSGVEEALDATI AWEASPAQESLEVMAQEASLEAELEAVYL TQQAQSTGSAPVAPDEF
 SSREEFVVAVSHSSP SALALQSP LPAWRTL SVSEHAPGLPGLPSTAAEVEAQREHQAAKRACSACAGTF
 GEDTSALPAPGGGGSGDPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

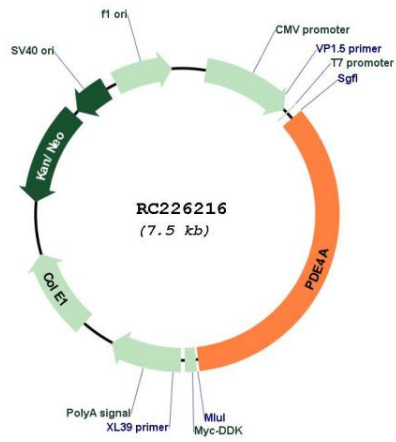
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001111308
ORF Size:	2580 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_001111308.1 , NP_001104778.1
RefSeq ORF:	2583 bp
Locus ID:	5141
UniProt ID:	P27815
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	95.1 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 RC226216