

Product datasheet for **RC216872**

PDE9A (NM_001001570) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE9A (NM_001001570) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE9A
Synonyms:	HSPDE9A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216872 representing NM_001001570
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGATCCGGCTCCTCCAGCTACCGGCCAAGGCCATCTACCTGGACATCGATGGACGCATTCAAGG
 TAATCTTCAGCAAGTACTGCAACTCCAGCGACATCATGGACCTGTTCTGCATCGCCACCGCCTGCCTCG
 GAACACGACCATCTCCCTGCTGACCACCGACGACGCCATGGTCTCCATCGACCCACCATGCCCGGAAT
 TCAGAACGGAATGAGCTCATTCTCTATACATCACTCCGTAACCTGTTGTTTTTACCTAGTAAGGAGTCAT
 GGGCGTCCACCAGCACTCCGTACAAAGTGAAGCTGTGGCCATCAAGCAACTCTCCGAGCATTCAAAT
 CAATGAACTGAAAGCTGAAGTTGCAAATCACTTGGCTGTCCTAGAGAAACCGGTGGAATTGGAAGGACTA
 AAAGTGGTGGAGATTGAGAAATGCAAGAGTGACATTAAGAAGATGAGGGAGGAGCTGGCGCCAGAAGCA
 GCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAACCACAAGAAGTTGACTCCTCGACGCGATGT
 TCCCATTACCCAAGTACCTGCTCTCCAGAGACCATCGAGGCCCTGCGGAAGCCGACCTTTGACGTC
 TGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCACGACCTCGGGCTGGTCAGGG
 ACTTCAGCATCAACCCTGTCACCCTCAGGAGGTGGCTGTTCTGCGTCCACGACAACCTACAGAAAACACC
 CTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCAGATGATGTACAGCATGGTCTGGCTCTGCAGTCTC
 CAGGAGAAGTTCTCACAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGACCATC
 CCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACC
 GCTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGAACATCTTCTCCAAC
 ATCCCACCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAA
 GACATGACAGAAATATGGATTCTTTCAAAGAGAAAATGGAGAATTTTGACTACAGCAACGAGGAGCAGAT
 GACCCTGCTGAAGATGATTTTGATAAAATGCTGTGATATCTCTAACGAGGTCCGTCCAATGGAAGTCGCA
 GAGCCTTGGTGGACTGTTTATTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCTTC
 CTGTGGCACCGTTCATGGACCGAGACAAAGTGACCAAGGCCACAGCCAGATTGGGTTTCATCAAGTTTGT
 CCTGATCCCAATGTTTGAACAGTGACCAAGCTTCTCCCATGGTTGAGGAGATCATGCTGCAGCCACTT
 TGGGAATCCCAGATCGCTACGAGGAGCTGAAGCGGATAGATGACGCCATGAAAGAGTTACAGAAGAAGA
 CTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAGAGAAGCAGAGATGTAAAAACAGTGAAGG
 AGACTGTGCC

ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216872 representing NM_001001570
 Red=Cloning site Green=Tags(s)

MGSGLSSSRPKAIYLDIDGRIQKVIKSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIPTMPAN
 SERNELILYTSRLRLLFLPSKESWASHQHSVQSETCGHQATLRAFKINELKAEVANHLAVLEKRVLEGL
 KVVIEIECKSDIKMREELAARSSRTNCPCKYSFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPFTDV
 WLWEPNEMLSLEHMYHDLGLVRDFSINPVTLRRWLFVHDNYRNNPFHNRHCFVQAQMMYSMWLCSL
 QEKFSQTDILILMTAAICHDLDPGYNNTYQINARTELAVRYNDISPLENHCAVAFQILAEPECNIFSN
 IPPDGFQIRQGMITLILATDMARHAEIMDSFKEKMFNDYSNEEHMTLLKMILIKCCDISNEVRPMEVA
 EPWVDCLEEFMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLVLPFETVTKLFPVVEEIMLQPL
 WESRDYEELKRIDDAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDCA

TRRLEQKLISEEDLAANDILDYKDDDDKV

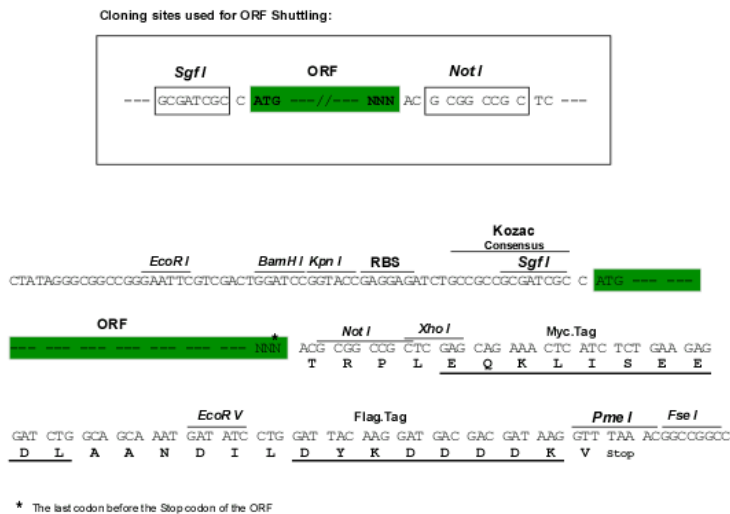
Chromatograms:

https://cdn.origene.com/chromatograms/mk6274_h11.zip

Restriction Sites:

Sgfl-NotI

Cloning Scheme:



ACCN: NM_001001570

ORF Size: 1620 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_001001570.1](#), [NP_001001570.1](#)

RefSeq Size: 1944 bp

RefSeq ORF: 1623 bp

Locus ID: 5152

UniProt ID: [O76083](#)

Cytogenetics: 21q22.3

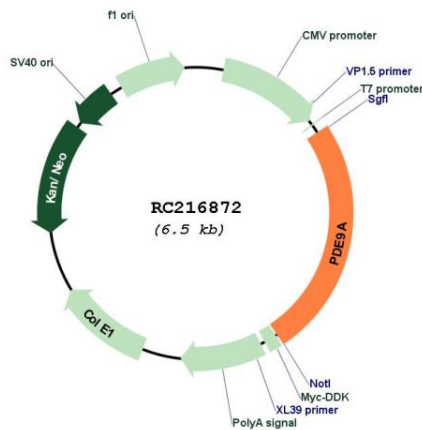
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 62.3 kDa

Gene Summary: The protein encoded by this gene catalyzes the hydrolysis of cAMP and cGMP to their corresponding monophosphates. The encoded protein plays a role in signal transduction by regulating the intracellular concentration of these cyclic nucleotides. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216872