

Product datasheet for **RC217199**

PDE9A (NM_001001581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE9A (NM_001001581) 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)



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ORF Nucleotide Sequence:

>RC217199 representing NM_001001581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCATTCAAGAAGCACTCCGTACAAGTGAGACCTGTGGCCATCAAGCAACTCTCCGCTGGTGTCC
 AGGACAAGAGAACCACAAGCCGTGGCCAGTCTGCTGAGAGACCACTGAGGGACAGACGGGTTGTGGCCCT
 GGAGCAGCCCCGGAGGGAAGGAGCATTTGAAAGTGACAGGTAGAGCCCAGGCCAGAGACCCAGGGC
 TGCTACCAGGAAGGCCAGCGCATCCCTCCAGAGAGAGAAGAATTAATCCAGAGCGTGCTGGCGCAGGTTG
 CAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAGTTGCAAACTACTGGCTGTCTCT
 AGAGAAACCGCTGGAATTGGAAGGACTAAAAGTGGTGGAGATTGAGAAATGCAAGAGTGACATTAAGAAG
 ATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAACC
 ACAAGAAGTTGACTCCTCGACCGGATGTTCCCACTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGA
 GGCCCTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCAC
 ATGTACCACGACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTACCCTCAGGAGGTGGCTGTCTCT
 CGTCCACGACAACACAGAAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCAGATGAT
 GTACAGCATGGTCTGGCTCTGCAGTCTCCAGGAGAAGTTCTCACAAACGGATATCCTGATCCTAATGACA
 GCGGCCATCTGCCACGATCTGGACCATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGC
 TGGCGGTCCGCTACAATGACATCTACCCTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGC
 CGAGCCTGAGTGAACATCTTCTCCAACATCCCACCTGATGGGTTCAAGCAGATCCGACAGGGAATGATC
 ACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAAATTATGGATTCTTTCAAAGAGAAAAATGGAGA
 ATTTTACTACAGCAACGAGGAGCACATGACCCCTGCTGAAGATGATTTTGATAAAATGCTGTGATCTC
 TAACGAGTCCGTCCTCAATGGAAGTCGACAGACCTTGGGTGGACTGTTTATTAGAGGAATATTTTATGCAG
 AGCGACCGTGAGAAGTCAGAAGGCTTCTGTGGCACCGTTCATGGACCGAGACAAGTGACCAAGGCCA
 CAGCCCAGATTGGGTTCAAGTTTGTCTGATCCCAATGTTTGAACAGTGACCAAGCTCTTCCCAT
 GGTGAGGAGATCATGCTGCAGCCACTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGGATAGAT
 GACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAGA
 GAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCC

ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217199 representing NM_001001581
 Red=Cloning site Green=Tags(s)

MDAFRSTPYKVRPVAIKQLSAGVEDKRTTSRQSAERPLRDRRVVGLQPRREGAFESGQVEPRPREPQG
 CYQEGQRIPPEREEELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVEIEKCKSDIKK
 MREELAARSSRTNCPCKYSFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEH
 MYHDLGLVRDFSINPVTLRRWLFVVDNYRNNPFHNRHCFVQAQMMYSMWLCSLQEKFSQTDILILMT
 AAICHDLDPGYNNTYQINARTELVRYNDISPLENHHCVAFAQILAEPECNIFSNIPPDGFKQIRQGM
 TLILATDMARHAEIMDSFKEKMFNFYSNEEHTLLKMLIKCCDISNEVRPMEVAEPWVDCLLEEYFMQ
 SDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLIPMFETVTKLFPMVVEIMLQPLWESRDRYEELKRID
 DAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDCA

TRRLEQKLISEEDLAANDILDYKDDDDKV

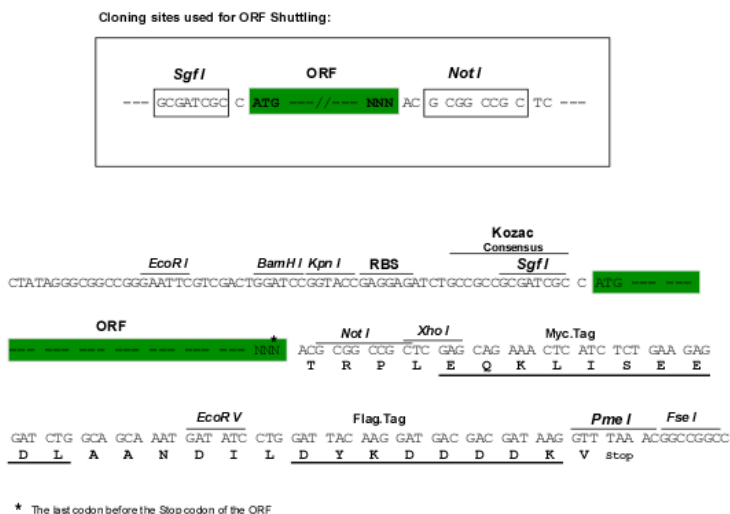
Chromatograms:

https://cdn.origene.com/chromatograms/mk8065_e06.zip

Restriction Sites:

Sgfl-NotI

Cloning Scheme:



ACCN: NM_001001581

ORF Size: 1578 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_001001581.1](#), [NP_001001581.1](#)

RefSeq Size: 1954 bp

RefSeq ORF: 1581 bp

Locus ID: 5152

UniProt ID: [O76083](#)

Cytogenetics: 21q22.3

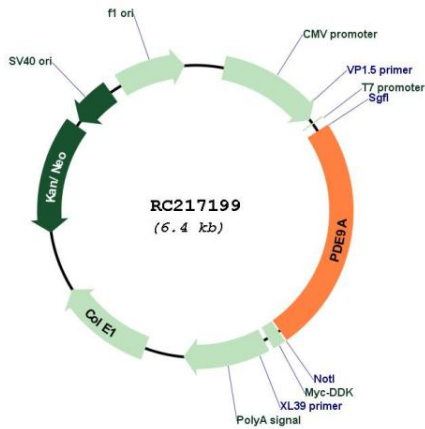
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 61 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 RC217199