

Product datasheet for **RC216805**

PDE9A (NM_001001569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE9A (NM_001001569) 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:

>RC216805 representing NM_001001569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGATCCGGCTCCTCCAGCTACCGGCCAAGGCCATCTACCTGGACATCGATGGACGCATTGAGAAGC
 ACTCCGTACAAAAGTGAGACCTGTGGCCATCAAGCAACTCTCCGAGCATTCAAATCAATGAACTGAAAGC
 TGAAGTTGCAAATCACTTGGCTGTCTAGAGAAAACGCGTGAATTGGAAGGACTAAAAGTGGTGGAGATT
 GAGAAATGCAAGAGTGACATTAAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCC
 CCTGTAAGTACAGTTTTTTGGATAACCACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCCAA
 GTACCTGCTCTCCAGAGACCATCGAGGCCCTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCC
 AATGAGATGCTGAGCTGCCTGGAGCACATGTACCAGCACCTCGGGCTGGTCAAGGACTTCAGCATCAACC
 CTGTCACCCTCAGGAGGTGGCTGTTCTGCGTCCACGACAACACAGAAACAACCCCTTCCACAACCTCCG
 GCACTGCTTCTGGTGGCCAGATGATGTACAGCATGGTCTGGCTCTGCAGTCTCCAGGAGAAGTTCTCA
 CAAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGACCATCCCGGCTACAACAACA
 CGTACCAGATCAATGCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACCCTGGAGAACCACCA
 CTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGAACATCTTCTCCAACATCCCACCTGATGGG
 TTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAAATTA
 TGGATTCTTTCAAAGAGAAAATGGAGAATTTTGACTACAGCAACGAGGAGCACATGACCCCTGCTGAAGAT
 GATTTTGTAAAATGCTGTGATATCTTAACGAGTCCGTCCTCAATGGAAGTCGCAGAGCCTTGGGTGGAC
 TGTTTATTAGAGGAATATTTTATGCAGAGCCGACCGTGAAGAAGTCAGAAGGCCCTTCTGTGGCACCCTCA
 TGGACCGAGACAAAGTGACCAAGGCCACAGCCAGATTGGTTTCATCAAGTTTGTCTGATCCCAATGTT
 TGAACAGTGACCAAGCTCTTCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGAT
 CGCTACGAGGAGCTGAAGCGGATAGATGACCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTACGT
 CTGGGGCCACCGAGAAGTCCAGAGAGAGAAGCAGAGATGTAAAAACAGTGAAGGAGACTGTGCC

ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216805 representing NM_001001569
 Red=Cloning site Green=Tags(s)

MGS GSSSYRPKAIYLDIDGRIQKHSVQSETCGHQATLRAFKINELKAEVANHLAVLEKRVELEGLKVVET
 EKCKSDIKMREELAARSSRTNCPCKYSFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEP
 NEMLSCLEHMYHDLGLVRDFSINPVTLRRWLFVHDNRYRNNPFHFRHCFVAQMMYSMVWLC SLQEFKS
 QTDILILMTAAICHDLDPGYNNTYQINARTELAVRYNDISPLENHHCVAFAQILAEPECNIFSNIPPDG
 FKQIRQGMITLILATDMARHAEIMDSFKEKMFNFDYSNEEHMTLLKMLIKCCDISNEVRPMEVAEPWVD
 CLLEEFMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLVLPFETVTKLFPVVEIMLQPLWESRD
 RYEELKRIDDAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDC A

TRRLEQKLI SEEDLAANDILDYKDDDDKV

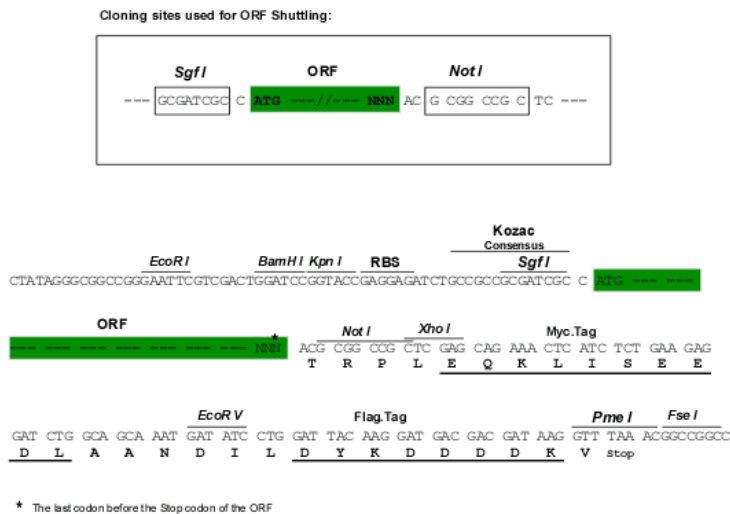
Chromatograms:

https://cdn.origene.com/chromatograms/mk8061_g12.zip

Restriction Sites:

Sgfl-NotI

Cloning Scheme:



ACCN: NM_001001569

ORF Size: 1395 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_001001569.1](#), [NP_001001569.1](#)

RefSeq Size: 1719 bp

RefSeq ORF: 1398 bp

Locus ID: 5152

UniProt ID: [O76083](#)

Cytogenetics: 21q22.3

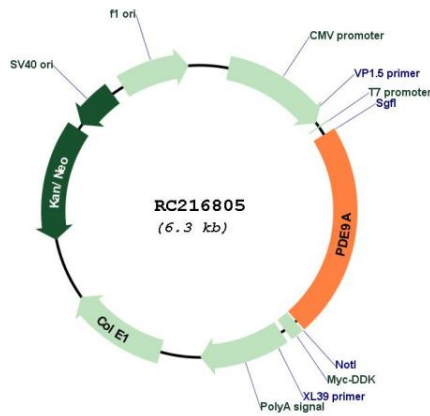
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

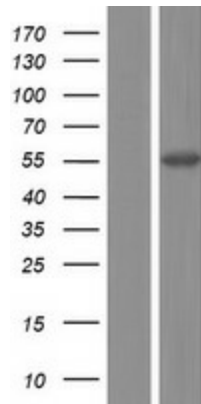
MW: 53.9 kDa

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 RC216805



Western blot validation of overexpression lysate (Cat# [LY424386]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216805 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).