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Product datasheet for RC224133

PDE9A (NM_001001568) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE9A (NM_001001568) 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:

>RC224133 representing NM_001001568
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCATTCAGAAGCACTCCGTACAAAGTGAGACCTGTGGCCATCAAGCAACTCTCCGAGAGAGAAG
AATTAATCCAGAGCGTGCTGGCGCAGGTTGCAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAA
AGCTGAAGTTGCAAATCACTTGGCTGTCCTAGAGAAACGCGTGGAATTGGAAGGACTAAAAGTGGTGGAG
ATTGAGAAATGCAAGAGTGACATTAAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACT
GCCCCTGTAAGTACAGTTTTTTGGATAACCACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCC
CAAGTACCTGCTCTCTCCAGAGACCATCGAGGCCCTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAG
CCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCACGACCTCGGGCTGGTCAGGGACTTCAGCATCA
ACCCTGTCACCCTCAGGAGGTGGCTGTTCTGCGTCCACGACAACTACAGAAACAACCCCTTCCACAACTT
CCGGCACTGCTTCTGCGTGGCCCAGATGATGTACAGCATGGTCTGGCTCTGCAGTCTCCAGGAGAAGTTC
TCACAAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGACCATCCCGGCTACAACA
ACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACCGCTGGAGAACCA
CCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCACCTGAT
GGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAAA
TTATGGATTCTTTCAAAGAGAAAATGGAGAATTTTGACTACAGCAACGAGGAGCACATGACCCTGCTGAA
GATGATTTTGATAAAATGCTGTGATATCTCTAACGAGGTCCGTCCAATGGAAGTCGCAGAGCCTTGGGTG
GACTGTTTATTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCTTCCTGTGGCACCGT
TCATGGACCGAGACAAAGTGACCAAGGCCACAGCCCAGATTGGGTTCATCAAGTTTGTCCTGATCCCAAT
GTTTGAAACAGTGACCAAGCTCTTCCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGA
GATCGCTACGAGGAGCTGAAGCGGATAGATGACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGA
CGTCTGGGGCCACCGAGAAGTCCAGAGAGAGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCC

ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224133 representing NM_001001568
Red=Cloning site Green=Tags(s)

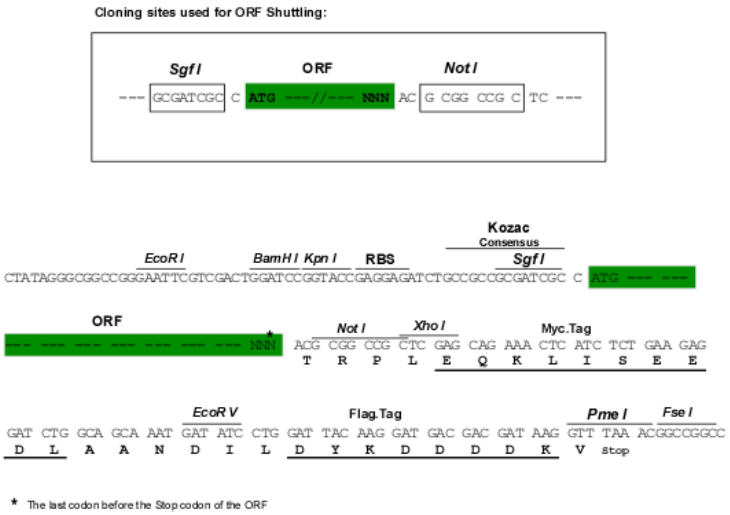
MDAFRSTPYKVRPVAIKQLSEREELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVE
IEKCKSDIKKMREELAARSSRTNCPCKYSFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWE
PNEMLSCLEHMYHDLGLVRDFSINPVTLRRWLFCVHDNYRNNPFHNFRHCFCVAQMMYSMVWLCSLQEKF
SQTDILILMTAAICHDLDHPGYNNTYQINARTELAVRYNDISPLENHHCAVAFQILAEPECNIFSNIPPD
GFKQIRQGMITLILATDMARHAEIMDSFKEKMENFDYSNEEHMTLLKMILIKCCDISNEVRPMEVAEPWV
DCLLEEYFMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFVLIPMFETVTKLFPMVEEIMLQPLWESR
DRYEELKRIDDAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDCA

TRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8061_h08.zip

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_001001568

ORF Size: 1398 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_001001568.1, NP_001001568.1

RefSeq Size: 1774 bp

RefSeq ORF: 1401 bp

Locus ID: 5152

UniProt ID: O76083

Cytogenetics: 21q22.3

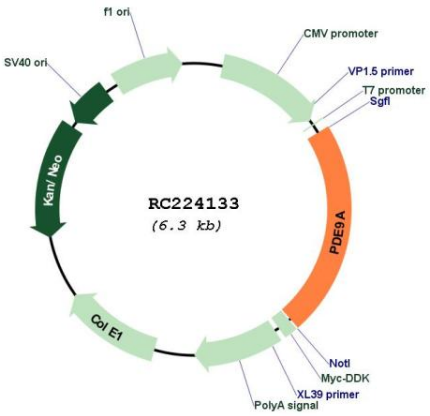
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

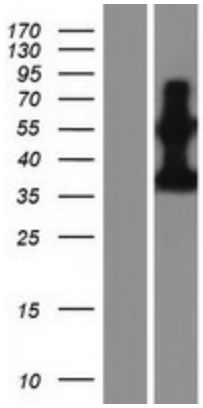
MW: 54.3 kDa

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]

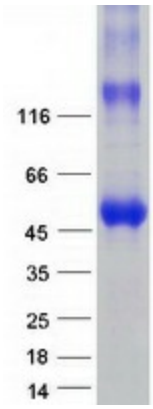
Product images:



Circular map for RC224133



Western blot validation of overexpression lysate (Cat# [LY424385]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224133 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDE9A protein (Cat# [TP324133]). The protein was produced from HEK293T cells transfected with PDE9A cDNA clone (Cat# RC224133) using MegaTran 2.0 (Cat# [TT210002]).