

## Product datasheet for RC224690

### PDE9A (NM\_001001579) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PDE9A (NM\_001001579) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PDE9A  
**Synonyms:** HSPDE9A2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC224690 representing NM\_001001579  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGGGAGGAGCTGGCGCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAACC  
 ACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCAAGTACCTGCTCTCCAGAGACCATCGA  
 GGCCCTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCAC  
 ATGTACCACGACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTACCCTCAGGAGGTGGCTGTTCT  
 GCGTCCACGACAACACTACAGAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCAGATGAT  
 GTACAGCATGGTCTGGCTCTGCAGTCTCCAGGAGAAGTCTCACAAACGGATATCCTGATCCTAATGACA  
 GCGGCCATCTGCCACGATCTGGACCATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGC  
 TGGCGGTCCGCTACAATGACATCTACCGCTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGC  
 CGAGCCTGAGTGCAACATCTTCTCCAACATCCACCTGATGGGTTCAAGCAGATCCGACAGGGAATGATC  
 ACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAAATTATGGATTCTTTCAAAGAGAAAATGGAGA  
 ATTTTACTACGCAACGAGGAGCAGATGACCCTGCTGAAGATGATTTTGATAAAATGCTGTGATATCTC  
 TAACGAGGTCCGTCCAATGGAAGTCGCAGAGCCTTGGGTGGACTGTTTATTAGAGGAATATTTTATGCAG  
 AGCGACCGTGAGAAGTCAGAAGGCCCTTCTGTGGCACCGTTCATGGACCGAGACAAAGTGACCAAGGCCA  
 CAGCCCAGATTGGGTTCAAGTTTGTCTGATCCCAATGTTTGAACAGTGACCAAGCTCTTCCCAT  
 GGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGGATAGAT  
 GACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAGA  
 GAAGCAGAGATGTAAAAACAGTGAAGGAGACTGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224690 representing NM\_001001579  
Red=Cloning site Green=Tags(s)

MREELAARSSRTNCPCCKYSFLDNHKKLTPRRDVPPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEH  
 MYHDLGLVRDFSINPVTLRRLFCVHDNYRNPFHNRHCFVQAQMMYSMWLCSLQEKFSQTDILILMT  
 AAICHDLDPGYNNTYQINARTELAVRYNDISPLENHCAVAFQILAEPECNIFSNIPDPGFKQIRQGMIL  
 TLILATDMARHAEIMDSFKKEMENFDYSNEEHMTLLKMILIKCCDISNEVRPMEVAEPWVDCLLEEFMQ  
 SDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLVLIIPMFETVTKLFPMVEEIMLQPLWESRDRYEELKRID  
 DAMKELQKKDLSLTSGATEKSRERSRDVKNSEGDCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

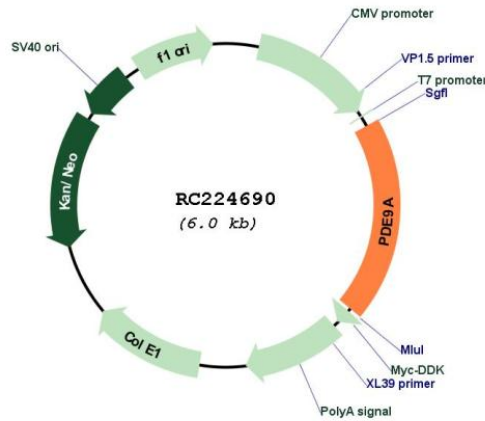
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001001579

<b>ORF Size:</b>	1158 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001001579.1</a> , <a href="#">NP_001001579.1</a>
<b>RefSeq Size:</b>	1790 bp
<b>RefSeq ORF:</b>	1161 bp
<b>Locus ID:</b>	5152
<b>UniProt ID:</b>	<a href="#">O76083</a>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Progesterone-mediated oocyte maturation, Purine metabolism
<b>MW:</b>	45.3 kDa
<b>Gene Summary:</b>	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]