

## Product datasheet for RC216915

### PDE9A (NM\_001001572) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDE9A (NM_001001572) 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:	>RC216915 representing NM_001001572 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGGAGGAGCTGGCGCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAACC  
ACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCAAGTACCTGCTCTCCAGAGACCATCGA  
GGCCCTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCAC  
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CGTCCACGACAACACTACAGAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCAGATGAT  
GTACAGCATGGTCTGGCTCTGCAGTCTCCAGGAGAAGTCTCACAAACGGATATCCTGATCCTAATGACA  
GCGGCCATCTGCCACGATCTGGACCATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGC  
TGGCGGTCCGCTACAATGACATCTCACCGCTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGC  
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TAACGAGTCCGTCGAATGGAAGTCGCAGAGCCTTGGGTGGACTGTTTATTAGAGGAATATTTTATGCAG  
AGCGACCGTGAGAAGTCAGAAGGCCCTTCTGTGGCACCGTTCATGGACCGAGACAAAGTGACCAAGGCCA  
CAGCCCAGATTGGGTTCAAGTTTGTCTGATCCCAATGTTTGAACAGTGACCAAGCTCTTCCCAT  
GGTTGAGGAGATCATGCTGCAGCCACTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGGATAGAT  
GACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAGA  
GAAGCAGAGATGTAAAAACAGTGAAGGAGACTGTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC216915 representing NM\_001001572  
Red=Cloning site Green=Tags(s)

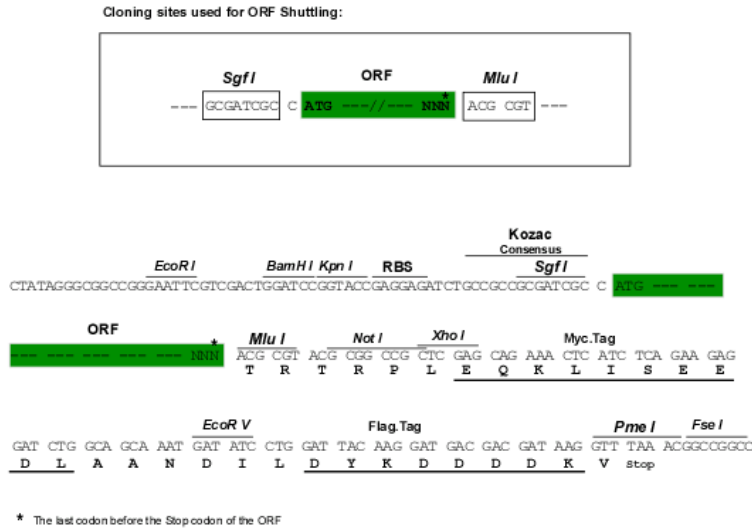
MREELAARSSRTNCPCKYSFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEH  
 MYHDLGLVRDFSINPVTLRRWLCVVDNYRNNPFHNRHCFVAVQMMYSMWLCSLQEKFSQTDILILMT  
 AAICHDLDPGYNNTYQINARTELVRYNDISPLENHCAVAFQILAEPECNIFSNIPPDGFKQIRQGMIL  
 TLILATDMARHAEIMDSFKEKMFNFYSNEEHMTLLKMLIKCCDISNEVRPMEVAEPWVDCLLEEYFMQ  
 SDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLVLIIPMFETVTKLFPVVEIMLQPLWESDRDRYEELKRID  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

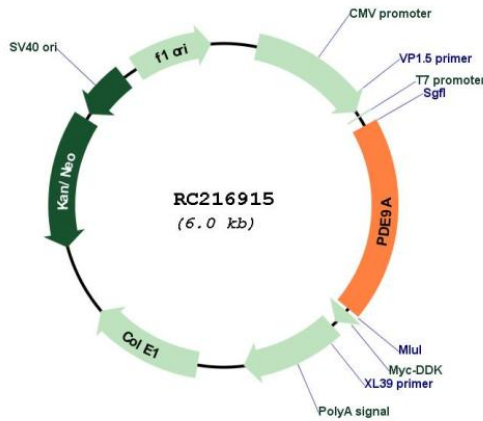
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001001572

<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_001001572.1</a> , <a href="#">NP_001001572.1</a>
<b>RefSeq Size:</b>	1730 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]