

Product datasheet for **SC300220**

PDE9A (NM_001001567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE9A (NM_001001567) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE9A
Synonyms:	HSPDE9A2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001001567 edited
 GCGAGCCGAGCGGAGGAGACCCTGCGGCGCGCGGCGGGCTCCCGGGCGTCCCGGGCCC
 GGTGGCGGCGCGGCTGTGGTTGGCTGAGCGCCGCGGGCCGCCCCCGCCGCCCTCC
 CTGCTCCCCTCCCCGCCTCCCGCGGGCTGGCGTCGGGAAAGTACAGTAAAAAGTCCG
 AGTGCAGCCGCGGGCGCAGGATGGGATCCGGCTCCTCCAGTACCGGCCAAGGCCATC
 TACCTGGACATCGATGGACGATTGAGAAGTAATCTTCAGCAAGTACTGCAACTCCAGC
 GACATCATGGACCTGTTCTGCATCGCCACCGGCTGCCTCGGAACACGACCATCCCTG
 CTGACCACCGACGACCCATGGTCTCCATCGACCCACCATGCCCGGAATTCAGAAGCG
 ACTCCGTACAAAGTGAGACCTGTGGCCATCAAGCAACTCTCCGAGAGAGAAGAATTAATC
 CAGAGCGTGTGGCGCAGGTTGCAGAGCAGTTCTCAAGAGCATTCAAATCAATGAACTG
 AAAGCTGAAGTTGCAAATCACTTGGCTGTCTAGAGAAACGCGTGAATTTGAAGGACTA
 AAAGTGGTGGAGATTGAGAAATGCAAGAGTGACATTAAGAAGATGAGGGAGGAGCTGGCG
 GCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAACCACAAGAAG
 TTGACTCTCGACGCGATGTTCCCACTTACCCCAAGTACCTGCTCTCCAGAGACCATC
 GAGGCCCTGCGGAAGCCGACCTTTGACGCTGGCTTTGGGAGCCCAATGAGATGCTGAGC
 TGCTTGAGACACATGTACCACGACCTCGGGCTGGTCAGGACTTACAGATCAACCCTGTC
 ACCCTCAGGAGGTGGCTGTTCTGCGTCCACGACAACTACAGAAACAACCCCTTCCACAAC
 TTCCGGCACTGCTTCTGCGTGGCCAGATGATGTACAGCATGGTCTGGCTCTGCAGTCTC
 CAGGAGAAGTTCTCACAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGAT
 CTGGACCATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTC
 CGCTACAATGACATCTCACCGCTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTC
 GCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCACTGATGGGTTCAAGCAGATCCGA
 CAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAAATTTATGGAT
 TCTTTCAAAGAGAAAATGGAGAATTTTGACTACAGCAACGAGGAGCACATGACCCCTGCTG
 AAGATGATTTTGATAAAAATGCTGTGATATCTCTAACGAGGTCCTCCAATGGAAGTCGCA
 GAGCCTTGGTGGACTGTTTATTAGAGGAATATTTTATGCAGAGCGACCGTGAAGTCA
 GAAGGCCCTTCTGTGGCACCGTTCATGGACCGAGACAAAGTGACCAAGGCCACAGCCAG
 ATGGGTTTCATCAAGTTTGTCTGATCCCAATGTTTGAACAGTGACCAAGCTCTTCCCC
 ATGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCAGATCGCTACGAGGAGCTG
 AAGCGGATAGATGACCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGCTGGG
 GCCACCGAGAAGTCCAGAGAGAGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCC
 TGAGGAAAAGCGGGGGCGTGGCTGCAATTCTGGACGGGCTGGCCGAGCTGCGCGGATCC
 TTGTGCAGGGAAGAGCTGCCCTGGGCACCTGGCACCAAGACCATGTTTCTAAGAACC
 ATTTTGTCTACTGATACAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001001567
- Insert Size:** 2100 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_001001567.1.
- 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_001001567.1](#), [NP_001001567.1](#)

RefSeq Size: 1923 bp

RefSeq ORF: 1602 bp

Locus ID: 5152

UniProt ID: [O76083](#)

Cytogenetics: 21q22.3

Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but lacks an internal segment compared to isoform a.