

Product datasheet for **RN217319**

Pde2a (NM_001270604) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Pde2a (NM_001270604) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Pde2a |
| Synonyms: | CGS-PDE; Pde2; Pde2a2 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >RN217319 representing NM_001270604
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCCGACAGCCTGCAGCCAGCCAGGACCCCTTGACAGAAGCCAGAGCCCCAGGGAGTAGAGACG
 ACCGACTGGAGGATGCTTTGCTGAGCCTGGGCGCGTTATCGACATCGCGGGCCTTCGACAGGCTGCCAA
 GGATGCCTCTCGGCCGTGCTCCCAAAGTGGAGACTGTCTACCTACCTGGTAGAGGGAGTCCAGG
 CTGGTGTGTGAGGACCCCTCATGAGCTGCCACAGGAAGGAAAAATTCGAGAGGCTGTGATTTCTCGGA
 AGCGGCTGAGCTGCGATGGGCTGGGACCTTCAGACCTACTAGGAAAGCCCTTGCCAGGCTGGTGGCTCC
 ACTGGCCCTGACACGCAAGTGTGTGTCATACCCCTGCTGGACAAGGAGACTGGAAGTGTGGCAGCCGTC
 ATCTTGGTGCAGTGTGGCAGCTGAGTGACAGTGAGGAGCAGAGCCTGCAGGTGGTGGAGAAGCATGCTC
 TGGTGGCCCTGCAGAGGGTGCAGGCCCTGCAGCAGCGCAGGCCGAAGCTGTTTCCAGAACCTCAGCGGA
 TCCCTCTGAAGATCAAAGGATGAGAAGGGATACACCGCCATGACCGAAAGATCCTGCAACTGTGTGGA
 GAACTCTATGACTTGGATGCCACTTCTCTGCAGCTCAAAGTCTTCGATATCTTACGAGGAGACACAGG
 CCACTCACTGCTGCCTCTGCTGGTGTGAGAGGACAACCTGCAGCTTTCCTGCAAGGTCAATTGGAGAGAA
 AGTGTGGGAGAGAGGTGAGCTTCCATTGACCATGGGACGCCTGGGCCAGGTGGTGGAGGACAAAACAG
 TGTATCCAGTTGAAGGACCTAACCTCTGACGATGTGCAACAGCTACAAAACATGTTGGGCTGTGAGCTTC
 GGGCTATGCTATGTGTCCCTGTCTCAGTCGAGCCACTGACAGGTGGTGGCCCTGGCTTGGCCCTTCAA
 CAAGCTTGGAGGAGACTTCTTCCAGATGAGGATGAACGTGCGATCCAACACTGCTTCCACTACACAGGC
 ACGTGGCTCACCAGTACCTTGGCCTTCCAGAAGGAGCAGAAGCTCAAGTGTGAGTGGCAGGCTTCTTCC
 AAGTGGCAAAGAACCTTTCACCCACCTGGATGACGTCTGTCTGCTGCTACAGGAGATCATCACAGGCG
 CAGAAAACCTCAGCAACGCAGAGATCTGCTCCGTGTTCCCTGCTGGATCAGAATGAGCTGGTGGCAAGGTG
 TTCGATGGCGGAGTAGTGGACGATGAGAGTTATGAGATCCGCATCCCTGCGGACCAAGGCATCGCGGGCC
 ACGTGGCGACACGGCCAGATCCTGAACATCCAGATGCATACGCCATCCGCTTTTCTATCGCGGCGT
 AGACGACAGCACTGGCTTCCGCACGCGCAACATTCTCTGCTTCCCTATCAAGAACGAGAACCAAGAGGT
 ATCGGTGTGGCTGAGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAATTTGATGAGGACCTGGCCA
 CAGCCTTCTCCATCTACTGTGGCATTAGCATCGCTCACTCTCTCCTATACAAAAGGTGAATGAAGCCCA
 GTACCGCAGCCACCTGGCCAACGAGATGATGATGTACCATATGAAGGTCTCTGACGATGAATACACCAAA
 CTTCTCCATGATGGCATCCAACCTGTGGCCGCTTACTCCAACCTTGGCAACTCACCTATACTCCTC
 GGTCTCTGCCTGAGGACGATACTTCTATGGCCATCCTGAGCATGCTGCAAGACATGAACTTCATCAATA
 CTACAAAATTGACTGCCAACTCTGGCCGGTTCTGCCTGATGGTGAAGAAAGGTACCGGGATCCGCC
 TACCACAACTGGATGCACGCCTTCTCTGCTCTCACTTTTGTACTTGTCTACAAGAATCTGGAGCTCT
 CCAACTACCTCGAGGACATCGAGATCTTTGCGTTGTTATTTCTGATGTGTACAGCTGAGCCACAG
 AGGCACAAACAACTCCTTCCAGGTGGCTCGAAATCTGTGCTGGCTGCACTCTACAGCTCAGAGGGCTCT
 GTCATGGAGAGGACCACTTTGCTCAGGCCATTGCTATCCTCAACACCCATGGCTGTAATATCTTTGACC
 ACTTCTCTCGGAAGACTATCAGCGAATGCTGGACCTGATGAGGGACATCATCTTGGCCACGGACCTGGC
 ACACCACCTCCGCATCTTCAAGGACCTGCAGAAGATGGCTGAAGTGGTTATGACCGAAACAACAAGCAA
 CACCACAGGCTTCTTATGCCTCCTTATGACCTCCTGTGACCTCTGACCAGACAAAGGGCTGGAAGA
 CCACCAGAAAATTGCGGAGCTGATCTACAAAGAGTTCTTCTCCAAGGAGACTTGGAGAAGGCCATGGG
 CAACCGACCAATGGAGATGATGGATCGGGAGAAGGCCTACATCCCTGAACTTCAGATCAGCTTTATGGAG
 CACATCGCCATGCCATCTACAAGCTGTTACAAGACCTGTTCCCAAGGCAGCAGAGCTGTATGAACGCG
 TGGCCTCCAATCGTGAGCACTGGACCAAGGTGTCCACAAGTTACCATCCGAGGCTCCCCAGTAACAA
 CTCGCTGGATTTCTGGATGAGGAATATGAGGTCCCTGATTTGGACGTCACCAGGGCTCCTGTCAATGGC
 TGCTGCAGCCTCGAGGGCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

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| ACCN: | NM_001270604 |
| Insert Size: | 2751 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: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <ol style="list-style-type: none">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: | <u>NM_001270604.1, NP_001257533.1</u> |
| RefSeq Size: | 4116 bp |
| RefSeq ORF: | 2751 bp |
| Locus ID: | 81743 |
| Cytogenetics: | 1q32 |
| Gene Summary: | <p>activation induces decreased cAMP accumulation; involved in nitric oxide mediated signaling in cardiac fibroblasts [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and has an alternate exon in the 5' UTR, compared to variant 1. These differences cause translation initiation at an alternate AUG and result in an isoform (PDE2A1) that is shorter and has a distinct N-terminus, compared to isoform PDE2A3. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p> |