

## Product datasheet for **RN200273**

### **Pde2a (NM\_031079) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_031079) 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:** >RN200273 representing NM\_031079  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCCTGGTGTTCACCACATCCTCATCGTGTGTCCAATTCTCAGCGGGGCCAGCAGGTCTTCC  
 TCAAGCCGGACGAACCGCCGCCGAGCCATGCGCCGACAGCCTGCAGGATGCTTTGCTGAGCCTGGGCGC  
 CGTTATCGACATCGCGGGCCTTCGACAGGCTGCCAAGGATGCCCTCTCGGCCGTGCTCCCAAGTGAG  
 ACTGTCTACACCTACCTGGTAGATGGGGAGTCCAGGCTGGTGTGTGAGGACCCCTCATGAGCTGCCAC  
 AGGAAGAAAAATTCGAGAGGCTGTGATTTCTCGGAAGCGGCTGAGCTGCGATGGGCTGGACCTTCAGA  
 CCTACTAGGAAAGCCCTTGCCAGGCTGGTGGCTCCACTGGCCCTGACACGCAAGTGTGGTACATACC  
 CTGCTGGACAAGGAGACTGGAAGTGTGGCAGCCGTCATCTGGTGCATGTGGCCAGCTGAGTGACAGTG  
 AGGAGCAGAGCCTGCAGGTGGTGGAGAAGCATGCTCTGGTGGCCCTGCAGAGGGTGCAGGCCCTGCAGCA  
 GCGCAGGCCTGAAGCTGTTCAAGAACCTCAGCGGATCCCTCTGAAGATCAAAGGATGAGAAGGGATAC  
 ACCGCCATGACCGAAAGATCCTGCAACTGTGTGGAGAAGTCTATGACTTGGATGCCACTTCTCTGCAGC  
 TCAAAGTCCTTCGATATCTTCAGCAGGAGACACAGGCCACTCACTGCTGCCTCCTGCTGGTGTGAGAGGA  
 CAACCTGCAGCTTCTGCAAGGTCAATTGGAGAGAAAGTCTGGGAGAAGAGGTGAGCTTCCATTGACC  
 ATGGGACGCCTGGGCCAGGTGGTGGAGGACAAACAGTGTATCCAGTTGAAGGACCTAACCTCTGACGATG  
 TGCAACAGCTACAAAACATGTTGGGCTGTGAGCTTCGGGCTATGCTATGTGTCCCTGTATCAGTCGAGC  
 CACTGACCAGGTGGTGGCCCTGGCTTGGCCCTCAACAAGCTTGGAGGAGACTTCTTACAGATGAGGAT  
 GAACGTGCGATCAACACTGCTTCCACTACACAGGCACGGTCTCACCAGTACCTGGCCCTCCAGAAGG  
 AGCAGAAGCTCAAGTGTGAGTGCCAGGCTCTTCCAAGTGGCAAAGAAGCTTTCACCCACCTGGATGA  
 CGTCTCTGCTCCTGCTACAGGAGATCATCACAGAGGCCAGAAACCTCAGCAACGCAGAGATCTGCTCCGTG  
 TTCTGCTGGATCAGAATGAGCTGGTTGCCAAGGTGTTGATGGCGGTGTAGTGGACGATGAGAGTTATG  
 AGATCCGCATCCCTGCGGACCAAGGCATCGCGGCCACGTGGCGACCACGGGCCAGATCCTGAACATCCC  
 AGATGCATACGCCATCCGCTTTTCTATCGCGGCTAGACGACAGCACTGGCTTCCGCACGCGCAACATT  
 CTCTGCTTCCCTATCAAGAACGAGAACCAAGAGGTATCGGTGTGGCTGAGCTAGTGAACAAGATCAATG  
 GGCCATGGTTCAGCAAATTTGATGAGGACCTGGCCACAGCCTTCTCCATCTACTGTGGCATTAGCATCGC  
 TCACTCTCTCTATACAAAAAGGTGAATGAAGCCAGTACCGCAGCCACCTGGCCACGAGATGATGATG  
 TACCATATGAAGTCTCTGACGATGAATACACCAAATCTCCATGATGGCATCAACCTGTGGCCGCCA  
 TTGACTCCAATTTGCCAATTCACCTATACTCCTCGGTCTCTGCCTGAGGACGATACTTCTATGGCCAT  
 CCTGAGCATGCTGCAAGACATGAAGTTCATCAATAACTACAAAATTGACTGCCCAACTCTGGCCCGGTT  
 TGCTGATGGTGAAGAAAGGCTACCGGGATCCGCCCTACCACAAGTGCACGCTTCTCTGTCTCTC  
 ACTTTTGTACTTGTCTACAAGAACTGGAGCTCTCAAACCTCGAGGACATCGAGATCTTTGCGTT  
 GTTTATTTCTGCATGTGTACGACCTGGACCACAGAGGCACAAACAACCTCTCCAGGTGGCCTCGAAA  
 TCTGTGCTGGCTGCACTCTACAGCTCAGAGGGCTCTGTATGGAGAGGCACCACTTTGCTCAGGCCATTG  
 CTATCTCAACACCCATGGCTGTAATATCTTTGACCCTCTCTCGGAAGGACTATCAGCGAATGCTGGA  
 CCTGATGAGGGACATCATCTTGGCCACGGACCTGGCACACCACCTCCGCATCTCAAGGACCTGCAAGA  
 ATGGCTGAAGTGGGTTATGACCGAAACAACAAGCAACACACAGGCTTCTTCTATGCCTCCTTATGACCT  
 CCTGTGACCTCTCTGACCAGACAAGGGCTGGAAGACCACAGAAAGATTGCGGAGCTGATCTACAAAGA  
 GTTCTTCTCCAAAGGAGACTTGGAGAAGGCCATGGCAACCGACCAATGGAGATGATGGATCGGGAGAAG  
 GCCTACATCCCTGAAGTTCAGATCAGCTTTATGGAGCACATCGCCATGCCCATCTACAAGCTGTTACAAG  
 ACCTGTTCCCAAGGCAGCAGAGCTGTATGAACGCGTGGCCTCCAATCGTGAAGTGGACCAAGGTGTC  
 CCACAAGTTCACCATCCGAGGCCTCCCAAGTAACTCGCTGGATTTCTGGATGAGGAATATGAGGTC  
 CCTGATTTGGACGTCACCAGGGCTCTGTCAATGGCTGCTGCAGCCTCGAGGGCTGA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

<b>ACCN:</b>	NM_031079
<b>Insert Size:</b>	2787 bp
<b>OTI Disclaimer:</b>	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).
<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_031079.1</a> , <a href="#">NP_112341.1</a>
<b>RefSeq Size:</b>	3980 bp
<b>RefSeq ORF:</b>	2787 bp
<b>Locus ID:</b>	81743
<b>UniProt ID:</b>	<a href="#">Q01062</a>
<b>Cytogenetics:</b>	1q32
<b>Gene Summary:</b>	<p>activation induces decreased cAMP accumulation; involved in nitric oxide mediated signaling in cardiac fibroblasts [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (2) represents use of an alternate promoter and has a distinct 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus, compared to isoform 1. 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>