

Product datasheet for **RN200272**

Pde2a (NM_001143847) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001143847) 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: >RN200272 representing NM_001143847
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCAGGCATGCGGCCACTCCATCCTCTGCAGGAGCCAGCAGTACCCGGCAGCGCGACCCGGCTGAGC
 CGCGGGGCCAGCAGGTCTTCTCAAGCCGGACGAACCCGCCCGCAGCCATGCGCCGACAGCCTGCAGGA
 TGCTTTGCTGAGCCTGGGCGCCGTTATCGACATCGCGGCCCTTCGACAGGCTGCCAAGGATGCCCTCTCG
 GCCGTGCTCCCCAAAGTGGAGACTGTCTACACCTACCTGGTAGATGGGGAGTCCAGGCTGGTGTGTGAGG
 ACCCCCCTCATGAGCTGCCACAGGAAGGAAAAATTCGAGAGGCTGTGATTTCTCGGAAGCGGCTGAGCTG
 CGATGGGCTGGGACCTTCAGACCTACTAGGAAAGCCCTTGCCAGGCTGGTGGCTCCACTGGCCCTGAC
 ACGCAAGTGTGGTCATACCCCTGCTGGACAAGGAGACTGGAAGTGTGGCAGCCGTCATCTTGGTGCAGT
 GTGGCCAGCTGAGTGACAGTGAAGGAGCAGACCTGCAGGTGGTGGAGAAGCATGCTCTGGTGGCCCTGCA
 GAGGGTGCAGGCCCTGCAGCAGCGCAGGCTGAAGCTGTTCAGAACACCTCAGCGGATCCCTCTGAAGAT
 CAAAAGGATGAGAAGGGATACACCGCCCATGACCGAAAGATCCTGCAACTGTGTGGAGAAGTCTATGACT
 TGGATGCCACTTCTCTGCAGCTCAAAGTCTTCGATATCTTCAGCAGGAGACACAGGCCACTCACTGCTG
 CCTCTGCTGGTGTGAGAGGACAACCTGCAGCTTCTCTGCAAGGTCATTGGAGAGAAAGTGTGGAGAA
 GAGGTCAGCTTCCATTGACCATGGGACGCCTGGGCCAGGTGGTGGAGGACAAACAGTGTATCCAGTTGA
 AGGACCTAACCTCTGACGATGTGCAACAGCTACAAAACATGTTGGGCTGTGAGCTTCGGGCTATGCTATG
 TGTCCCTGTATCAGTCGAGCCACTGACCAGGTGGTGGCCCTGGCTTGCCTTCAACAAGCTTGGAGGA
 GACTTCTTACAGATGAGGATGAACGTGCGATCCAACACTGCTTCCACTACACAGGCACGGTGTCCACCA
 GTACCTTGGCCCTCCAGAAGGAGCAGAAGCTCAAGTGTGAGTCCAGGCTTTCTCCAAGTGGCAAAGAA
 CCTCTTACCCACCTGGATGACGTCTCTGTCTGCTACAGGAGATCATACAGAGGCCAGAAACCTCAGC
 AACGCAGAGATCTGCTCCGTGTTCTGCTGGATCAGAATGAGCTGGTTGCCAAGGTGTTGATGGCGGTG
 TAGTGGACGATGAGAGTTATGAGATCCGCATCCCTGCGGACCAAGGCATCGCGGGCCACGTGGCGACCAC
 GGGCCAGATCCTGAACATCCCAGATGCATACGCCCATCCGCTTTTCTATCGCGGCGTAGACGACAGCACT
 GGCTTCCGCACGCGCAACATTCTGCTTCCCTATCAAGAACGAGAACCAAGAGGTATCGGTGTGGCTG
 AGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAATTTGATGAGGACCTGGCCACAGCCTTCTCCAT
 CTACTGTGGCATTAGCATCGCTCACTCTCTCTATACAAAAAGGTGAATGAAGCCAGTACCGCAGCCAC
 CTGGCCAACGAGATGATGATGTACCATATGAAGTCTCTGACGATGAATACACCAAACCTTCTCCATGATG
 GCATCCAACTGTGGCCGCCATTGACTCCAACCTTGGCAAACCTCACTATACTCTCGGTCTCTGCTGGA
 GGACGATACTTCTATGGCCATCCTGAGCATGCTGCAAGACATGAACCTCATCAATAACTACAAAATTGAC
 TGCCAACTCTGGCCCGGTTCTGCTGATGGTGAAGAAAGGCTACCGGGATCCGCCCTACCACAACCTGGA
 TGCACGCCCTTCTGTCTCACTTTTGCTACTTGTCTACAAGAATCTGGAGCTCTCCAACCTACCTCGA
 GGACATCGAGATCTTGGCTTGTATTTCTCTGCATGTGTACGACCTGGACCACAGAGGCACAAACAAC
 TCCTTCCAGGTGGCCTCGAAATCTGTGCTGGTGCACCTACAGCTCAGAGGGCTCTGTGATGGAGAGGC
 ACCACTTTGCTCAGGCCATTGCTATCCTCAACACCCATGGCTGTAATATCTTTGACCACTTCTCTCGGAA
 GACTATCAGCGAATGCTGGACCTGATGAGGGACATCATCTTGGCCACGGACCTGGCACACCCACCTCCGC
 ATCTTCAAGGACCTGCAGAAGATGGCTGAAGTGGGTTATGACCGAAACAACAAGCAACACCACAGGCTTC
 TTCTATGCCTCCTTATGACCTCCTGTGACCTCTCTGACCAGACAAGGGCTGGAAGACCACCAGAAAGAT
 TGCGGAGCTGATCTACAAGAGTTCTTCTCCAAAGGAGACTTGGAGAAGGCCATGGGCAACCGACCAATG
 GAGATGATGGATCGGGAGAAGGCCTACATCCCTGAACTTCAGATCAGCTTTATGGAGCACATCGCCATGC
 CCATCTACAAGCTGTTACAAGACCTGTTCCCAAGGCAGCAGAGCTGTATGAACGCGTGGCCTCCAATCG
 TGAGCACTGGACCAAGGTGTCCACAAGTTCACCATCCGAGGCCCTCCCAAGTAACTCGTGGATTTCT
 CTGGATGAGGAATATGAGGTCCCTGATTTGGACGTCAACAGGGCTCCTGTCAATGGCTGTGACGCTCG
 AGGGCTGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN:	NM_001143847
Insert Size:	2808 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).
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_001143847.1</u> , <u>NP_001137319.1</u>
RefSeq Size:	4155 bp
RefSeq ORF:	2808 bp
Locus ID:	81743
UniProt ID:	<u>Q01062</u>
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 (1) represents the longest transcript and encodes the longest isoform (PDE2A3). This variant is assembled from partial rat transcripts. The full-length exon combination is based on the mouse ortholog, NM_001008548.4. 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>