

## Product datasheet for **MC229199**

### **Pde2a (NM\_001243758) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001243758) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde2a
Synonyms:	CGS-PDE; cGSPDE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229199 representing NM\_001243758  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCTGGGGCTTGCACCCTTTTCAGCCTCCTGGGACGCCGATGAAGGCCTATCTGGTAGCCTTAGGA  
 ACCCAGTGCTCTCACCCACATTTGGGAACGGCGGGGCCAGCAGGTCTTCTCAAGCCGGACGAGCCGCC  
 GCCGCAGCCATGCGCCGACAGCCTGCAGGATGCTTTGCTGAGCCTAGGCGCCGTTATCGACATTGCTGGC  
 CTGCGACAGGCTGCCAGGGATGCCCTCTCAGCCGTGCTCCCAAAGTGGAGACTGTCTACACCTACCTGC  
 TAGATGGGGAGTCCAGACTGGTGTGTGAGGACCCCTCATGAGCTGCCACAGGAAGGAAAAATTCGAGA  
 AGCTGTGATCTCTCAGAAGCGGTGAGTTGCAATGGGTGGGACCTTCGGACCTACTGGGAAAGCCCTTG  
 GCCAGGCTGGTGGCTCCACTGGCTCCTGACATGCAAGTGTGTCATACCCCTGCTGGACAAGGAGACTG  
 GAAGTGTGGCAGCTGTCTTTGGTGCCTGTGGCCAGCTGAGTGACAGTGAGGAACAGAGCTTGCAGGT  
 GGTAGAGAAGCAGCTCTGGTAGCCCTGCGGAGGGTGCAGGCCCTGCAGCAGCGCAGGCCGAAGCTGTT  
 CAGAACACGTCAGTGGATGCCTCTGAAGATCAAAGGATGAGAAGGGGTACACCGACCATGACCGAAAGA  
 TCCTGCAACTGTGTGGGAACTTTTACTTGGATGCTACTTCTCTGCAGCTCAAAGTCCTTCAATATCT  
 GCAGCAGGAGACACAGGCCACTCACTGCTGCCTCCTGCTGGTGTGCGGAGGACAATCTACAGCTTTCCTGC  
 AAGGTCATTGGAGACAAAGTGTGGGAGAAGAGGTGAGCTTTCATTGACCATGGGACGCTCTGGGCGAGG  
 TGGTGGAAAGACAAGCAGTGTATCCAGTTGAAGGACCTAACCTCTGACGATGTGCAACAGCTGCAAAACAT  
 GTTGGGTGTGAGCTGCAGGCTATGCTGTGTGTCCCTGTATCAGCCGAGCCACTGACCAGGTGGTGGCC  
 CTGGCTTGGCCCTTCAACAAGCTTGGAGGAGATTTCTTACAGATGAGGATGAACACGTCATCAACACT  
 GCTTCCACTACACAGGCACGGTGTCTCACCAGCCTTCCAGACCTTCCAGAGGAGCAGAAGCTCAAGTGTGA  
 GTGCCAGGCTCTTCTCCAAGTGGCAAAGAACCTTTCACCCACCTGGATGATGTCTCTGTCTGCTACAG  
 GAGATCATCACGGAAGCCAGAACTCTAGCAACGACAGAGATCTGCTCGGTGTTCTGCTGGATCAGAACG  
 AGCTGGTGGCCAAGGTGTTTCGATGGTGGCGTTGTGGACGATGAGAGTTATGAGATCCGCATCCCGCGGA  
 CCAAGGCATCGCGGGCCACGTGGCGACTACGGCCAGATCCTGAACATCCAGATGCATATGCCATCCG  
 CTTTTCTATCGCGGCGTAGATGACAGCACTGGCTTCCGCACGCGCAACATTCTCTGCTTCCCTATCAAGA  
 ACGAGAACCAGGAGTCAATTGGTGTGGCTGAGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAGTT  
 TGATGAGGACCTGGCCACAGCCTTCTCCATCTACTGTGGCATCAGCATCGCCACTCTCTCTATACAAA  
 AAGGTGAATGAAGCCCAATACCGACCCACCTGGCCAATGAGATGATGATGATCATATGAAGGTCTCTG  
 ATGATGAATACACCAAGCTTCTCCACGATGGCATCCAACCTGTGGCCGCCATTGACTCCAACCTTTGCCAA  
 CTTTACCTACACGCCCTCGGTCTCTGCCTGAGGACGACACTTCTATGGCCATCCTGAGCATGCTGCAAGAC  
 ATGAACCTCATCAATAACTACAAAATTGACTGCCCAACTCTGGCCGATTCTGCCTGATGGTGAAGAAAAG  
 GCTACCGGGATCCACCCTACCACAACCTGGATGCACGCCTTCTCTGTCTCTCATTTTTGCTACCTGCTCTA  
 CAAGAATCTGGAGCTCTCCAACCTACCTCGAGGACATCGAGATCTTTGCATTGTTTATTTCTGCTGATGT  
 CATGACCTGGACCACAGAGGCACAAACAACTCCTTCCAGGTGGCCTCGAAATCTGTGCTGGCCGCACTCT  
 ACAGCTCAGAGGGCTCTGTATGGAGAGGCACCACTTTGCTCAAGCCATTGCTATCTCAACACCCACGG  
 CTGCAATATCTTTGACCCTTCTCTCGGAAGACTATCAGCGCATGCTGGACCTGATGAGGGACATCATC  
 TTGGCTACAGACCTGGCACACCACCTCCGCATCTTCAAGGACCTGCAGAAGATGGCTGAAGTGGGTTATG  
 ACCGAAACAACAGGCAACACCACAGGCTTCTTCTGTGCCTCCTCATGACCTCCTGTGACCTCTCTGACCA  
 GACAAAGGGCTGGAAAGACCACCAGAAAGATTGCAGAGCTGATCTACAAAGAGTTCTTCTCCAGGGAGAC  
 TTGGAGAAGGCCATGGGCAACCGACCGATGGAGATGATGGACCGTGAAGAAGCCTACATCCCTGAGCTTC  
 AGATCAGCTTTATGGAGCACATTGCCATGCCTATCTACAAGCTTTTACAAGACCTGTTCCCAAGGGCGC  
 AGAGCTGTATGAACGTGTGGCTCCAACCGTGGACTGGACCAAGGTGTCCACAAGTTACCATCCGA  
 GGCTCCCAAGTAACAACCTCGCTGGATTTCTGGACGAGGAATACGAGGTCCCCGATTTGGACGGCACCA  
 GAGCTCCTGTCAATGGCTGCTGCAGCCTCGAGGGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001243758
<b>Insert Size:</b>	2838 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001243758.1</a></u> , <u><a href="#">NP_001230687.1</a></u>
<b>RefSeq Size:</b>	4112 bp
<b>RefSeq ORF:</b>	2838 bp
<b>Locus ID:</b>	207728
<b>Cytogenetics:</b>	7 E2
<b>Gene Summary:</b>	<p>Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, uses an alternate splice site in the coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (5) is longer and has a distinct N-terminus, compared to isoform 6. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>