

## Product datasheet for **MC222657**

### **Pde2a (NM\_001143849) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001143849) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde2a
Synonyms:	CGS-PDE; cGSPDE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

>MC222657 representing NM\_001143849  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCCTGGTGTGCACCACATCCTCATCGCTGTTGTCCAATTCCTCAGCGGGGCCAGCAGGTCTTCC  
 TCAAGCCGGACGAGCCGCCGCCGAGCCATGCGCCGACAGCCTGCAGGATGCTTTGCTGAGCCTAGGCGC  
 CGTTATCGACATTGCTGGCCTGCGACAGGCTGCCAGGATGCCCTCTCAGCCGTGCTCCCAAAGTGGAG  
 ACTGTCTACACCTACCTGCTAGATGGGGAGTCCAGACTGGTGTGTGAGGACCCCCCTCATGAGCTGCCAC  
 AGGAAGGAAAAATTCGAGAAGCTGTGATCTCTCAGAAGCGGTGAGTTGCAATGGGCTGGGACCTTCGGA  
 CCTACTGGGAAAGCCCTTGGCCAGGCTGGTGGCTCCACTGGCTCCTGACATGCAAGTGTGGTGCATACCC  
 CTGCTGGACAAGGAGACTGGAAGTGTGGCAGTGTCTTGGTGCAGTGTGGCCAGCTGAGTGACAGTG  
 AGGAACAGAGCTTGCAGGTGGTAGAGAAGCAGCTCTGGTAGCCCTGCGGAGGTCAGGCCCTGCAGCA  
 GCGCAGGCTGAAGCTGTTCAGAACACGTAGTGGATGCCTCTGAAGATCAAAGGATGAGAAGGGGTAC  
 ACCGACCATGACCGAAAGATCCTGCAACTGTGTGGGAACTCTTTGACTTGGATGCTACTTCTCTGCAGC  
 TCAAAGTCCTTCAATATCTGCAGCAGGAGACACAGGCCACTCACTGCTGCCTCCTGCTGGTGTGGAGGA  
 CAATCTACAGCTTCTGCAAGGTCAATGGAGACAAAGTCTGGGAGAAGAGGTGAGCTTCCATTGACC  
 ATGGGACGTCTGGGGCAGGTGGTGAAGACAAGCAGTGTATCCAGTTGAAGGACCTAACCTCTGACGATG  
 TGCAACAGCTGCAAAACATGTTGGGTTGTGAGCTGCAGGCTATGCTGTGTGTCCCTGTATCAGCCGAGC  
 CACTGACCAGGTGGTGGCCCTGGCTTGCCTTCAACAAGCTTGGAGGAGATTTCTTACAGATGAGGAT  
 GAACACGTGATCAACTGCTTCCACTACACAGGCAGGTCCTCACCAGCACCTTGGCCCTCCAGAAGG  
 AGCAGAAGCTCAAGTGTGAGTCCAGGCTCTTCTCCAAGTGGCAAGAACCTTTCACCCACCTGGATGA  
 TGTCTCTGCTCTACAGGAGATCATCACGGAAGCCAGAAACCTCAGCAACGCAGAGATCTGCTGGTGT  
 TTCTGCTGGATCAGAACGAGCTGGTGGCAAGGTGTTGATGGTGGCGTTGTGGACGATGAGAGTTATG  
 AGATCCGCATCCCGCGGACCAAGGCATCGCGGGCCACGTGGCGACTACGGGCCAGATCCTGAACATCCC  
 AGATGCATATGCCATCCGCTTTTCTATCGCGCGTAGATGACAGCACTGGCTTCCGCACGCGCAACATT  
 CTCTGCTTCCCTATCAAGAACGAGAACCAGGAGGTCAATGGTGTGGCTGAGCTAGTGAACAAGATCAATG  
 GGCCATGGTTCAGCAAGTTTGTAGGACCTGGCCACAGCCTTCTCCATCTACTGTGGCATCAGCATCGC  
 CCACTCTCTCTATACAAAAAGGTGAATGAAGCCCAATACCGCAGCCACCTGGCCATGAGATGATGATG  
 TATCATATGAAGTCTCTGATGATGAATACACCAAGCTTCTCCAGATGGCATCCAACCTGTGGCCGCA  
 TTGACTCCAACCTTGGCAACTTTACCTACACGCTCGGTCTCTGCCTGAGGACGACACTTCTATGGCCAT  
 CCTGAGCATGCTGCAAGACATGAACTTCAATAACTACAAAATTGACTGCCAACTCTGGCCCGATTC  
 TGCTGATGGTGAAGAAAGGCTACCGGGATCCACCCTACCACAACCTGGATGCACGCTTCTCTGTCTCTC  
 ATTTTTGCTACCTGCTCTACAAGAACTCTGGAGCTCTCCAACCTCGAGGACATCGAGATCTTTGCATT  
 GTTTATTTCTGCATGTGTATGACCTGGACCACAGAGGCACAACAACCTCTTCCAGGTGGCCTCGAAA  
 TCTGTGCTGGCCCACTCTACAGCTCAGAGGGCTCTGTATGGAGAGGCACCACTTTGCTCAAGCCATTG  
 CTATCTCAACACCCACGGCTGCAATATCTTTGACCACTTCTCTCGGAAGGACTATCAGCGCATGCTGGA  
 CCTGATGAGGACATCATCTTGGCTACAGACTGGCACACCACCTCCGCATCTTCAAGGACCTGCAAGA  
 ATGGCTGAAGTGGTTATGACCGAAACAACAGGCAACACCACAGGCTTCTTCTGTGCCTCCTCATGACCT  
 CCTGTGACCTCTCTGACCAGACAAGGGCTGGAAGACCACCAGAAAGATTGCAGAGCTGATCTACAAGA  
 GTTCTTCTCCAGGGAGACTTGGAGAAGGCCATGGGCAACCGACCGATGGAGATGATGGACCGTGAAGA  
 GCCTACATCCCTGAGCTTCAAGTCAAGCTTTATGGAGCACATTGCCATGCCTATCTACAAGCTTTTACAAG  
 ACCTGTTCCCAAGGCGGACAGCTGTATGAACGTGTGGCCTCCAACCGTGAAGTGGACCAAGGTGTC  
 CCACAAGTTCACCATCCGAGGCTCCCCAGTAACTCGCTGGATTTCTGGACGAGGAATACGAGGTC  
 CCCGATTTGGACGGCACCAGAGCTCTGTCAATGGCTGCTGCAGCCTCGAGGGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

<b>ACCN:</b>	NM_001143849
<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>	<u><a href="#">NM_001143849.2</a></u> , <u><a href="#">NP_001137321.1</a></u>
<b>RefSeq Size:</b>	4053 bp
<b>RefSeq ORF:</b>	2787 bp
<b>Locus ID:</b>	207728
<b>UniProt ID:</b>	<u><a href="#">Q922S4</a></u>
<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 (3) represents use of an alternate promoter, has a distinct 5' UTR and 5' coding region, and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform, PDE2A2 (see PMID:21724846) has a shorter and distinct N-terminus and lacks an internal segment, compared to isoform 6.</p> <p>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>