

## Product datasheet for **MR219052**

### **Pde2a (NM\_001143849) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001143849) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide  
Sequence:

>MR219052 representing NM\_001143849  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGTCCTGGTGTGCACCACATCCTCATCGCTGTTGTCCAATTCCTCAGCGGGGCCAGCAGGTCTTCC  
 TCAAGCCGGACGAGCCGCGCCGAGCCATGCGCCGACAGCCTGCAGGATGCTTTGCTGAGCCTAGGCGC  
 CGTTATCGACATTGCTGGCCTGCGACAGGCTGCCAGGATGCCCTCTCAGCCGTGCTCCCAAAGTGGAG  
 ACTGTCTACACCTACCTGCTAGATGGGGAGTCCAGACTGGTGTGTGAGGACCCCCCTCATGAGCTGCCAC  
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 CTGCTGGACAAGGAGACTGGAAGTGTGGCAGTGTCTTGGTGCAGTGTGGCCAGCTGAGTGACAGTG  
 AGGAACAGAGCTTGCAGGTGGTAGAGAAGCAGCTCTGGTAGCCCTGCGGAGGTCAGGCCCTGCAGCA  
 GCGCAGGCTGAAGCTGTTCAGAACACGTGAGTGGATGCCTCTGAAGATCAAAGGATGAGAAGGGGTAC  
 ACCGACCATGACCGAAAGATCCTGCAACTGTGTGGGAACTCTTTGACTTGGATGCTACTTCTCTGCAGC  
 TCAAAGTCCTTCAATATCTGCAGCAGGAGACACAGGCCACTCACTGCTGCCTCCTGCTGGTGTGGAGGA  
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 CCACTCTCTCTATACAAAAAGGTGAATGAAGCCCAATACCGCAGCCACCTGGCCATGAGATGATGATG  
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 CCCGATTTGGACGGCACCAGAGCTCTGTCAATGGCTGCTGCAGCCTCGAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATGAGTTTAA

**Protein Sequence:** >MR219052 representing NM\_001143849  
 Red=Cloning site Green=Tags(s)

MVLVLHHILIAVVQFLRRGQQVFLKPDEPPPQPCADSLQDALLSLGAVIDIAGLRQAARDALSAVLPKVE  
 TVYTYLLDGESRLVCEDPPHELPEQEKIREAVISQKRLSCNGLGPSDLLGKPLARLVAPLAPDMQVLVIP  
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 TDHDKILQLCGELFDLDTSLQLKVLQYLQGETQATHCCLLLVSEDNLQLSCKVIGDKVLGEEVSFPLT  
 MGRLGQVVEDKQCIQLKDLTSDDVQQLQNMLGCELQAMLQVPISRATDQVVALACAFNKLGGDFDTDED  
 EHVIQHCFHYTGTVLTSTLAFQKEQKLKCEQALLQVAKNLFTHLDDVSLLQEIITEARNLSNAEICSV  
 FLLDQNELVAKVFDGGVVDDESYEIRIPADQGIAGHVATTGQILNIPDAYAHLFYRGVDDSTGFRTRNI  
 LCFPIKNENQEVIGVAELVNKINGPWFSKFDEDLATAFSIYCGISIAHSLLYKKVNEAQYRSHLANEMMM  
 YHMKVSDDEYTKLLHDGIQPVAAIDSNFANFTYTPRSLPEDDTSMAILSMLQDMNFINNYKIDCPTLARF  
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 SVLAALYSSEGSVMERHHAQAIAILNTHGCNIFDHF SRKDYQRM LDMRDIILATDLAHLRIFKDLQK  
 MAEVGYDRNNRQHRLLLCCLMTSCDLSDQTKGWKTTRKIAELIYKEFFSQGDLEKAMGNRPMEMMDREK  
 AYIPELQISFMEHIAMPIYKLLQDLFPKAAELYERVASNREHWTKVSHKFTIRGLPSNNSLDFLDEEYEV  
 PDLDGTRAPVNGCCSLEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

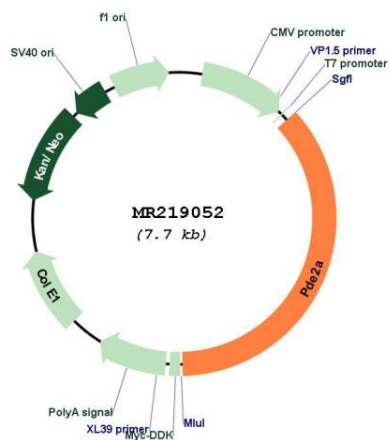


**ACCN:** NM\_001143849

**ORF Size:** 2784 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001143849.2</a> , <a href="#">NP_001137321.1</a>
<b>RefSeq Size:</b>	4067 bp
<b>RefSeq ORF:</b>	2787 bp
<b>Locus ID:</b>	207728
<b>UniProt ID:</b>	<a href="#">Q922S4</a>
<b>Cytogenetics:</b>	7 E2
<b>MW:</b>	105.1 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR219052