

Product datasheet for **MC229171**

Pde2a (NM_001243757) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001243757) 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: >MC229171 representing NM_001243757
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCCGACAGCCTGCAGCCAGCCAGGACCCCTTGACAGAAGCCAGAACCCCGAGGAGTAGAGACG
 ACCGACTGGAGGATGCTTTGCTGAGCCTAGGCGCGTTATCGACATTGCTGGCCTGCGACAGGCTGCCAG
 GGATGCCCTCTCAGCCGTGCTCCCAAAGTGGAGACTGTCTACACCTACCTGCTAGATGGGGAGTCCAGA
 CTGGTGTGTGAGGACCCCTCATGAGCTGCCACAGGAAGGAAAAATTCGAGAAGCTGTGATCTCTCAGA
 AGCGGCTGAGTTGCAATGGGCTGGGACCTTCGGACCTACTGGGAAAGCCCTTGGCCAGGCTGGTGGCTCC
 ACTGGCTCTGACATGCAAGTGTGTCATACCCCTGCTGGACAAGGAGACTGGAAGTGTGGCAGCTGTC
 ATCTTGGTGCCTGTGGCCAGCTGAGTGACAGTGAGGAACAGAGCTTGCAGGTGGTAGAGAAGCACGCTC
 TGGTAGCCCTGCGGAGGGTGCAGGCCCTGCAGCAGCGCAGGCCTGAAGCTGTTGAGAACACGTGAGTGA
 TGCCCTGAAGATCAAAGGATGAGAAGGGGTACACCGACCATGACCGAAAGATCCTGCAACTGTGTGGG
 GAACTCTTTGACTTGGATGCTACTTCTCTGCAGCTCAAAGTCCTCAATATCTGCAGCAGGAGACACAGG
 CCACTCACTGCTGCCTCCTGCTGGTGTGCGGAGGACAATCTACAGCTTTCCTGCAAGGTGATTGGAGACAA
 AGTGTGGGAGAAGAGGTGAGCTTTCATTGACCATGGGACGTCTGGGCGAGGTGGTGGAAAGACAAGCAG
 TGTATCCAGTTGAAGGACCTAACCTCTGACGATGTGCAACAGCTGCAAAACATGTTGGGTTGTGAGCTGC
 AGGCTATGCTGTGTGTCCTGTGTCATCAGCCGAGCCACTGACCAGGTGGTGGCCCTGGCTTGGCCTTCAA
 CAAGCTTGGAGGAGATTTCTTACAGATGAGGATGAACACGTGATCCAACACTGCTTCCACTACACAGGC
 ACGGTGCTCACCAGCACCTTGGCCTTCCAGAAGGAGCAGAAGCTCAAGTGTGAGTGCCAGGCTCTTCTCC
 AAGTGGCAAAGAACCCTTCCACCCACCTGGATGATGTCTCTGCTGCTACAGGAGATCATCACGGAAGC
 CAGAAACCTCAGCAACGCAGAGATCTGCTCGGTGTTCTGCTGGATCAGAACGAGCTGGTGGCCAAGGTG
 TTCGATGGTGGCGTTGTGGACGATGAGAGTTATGAGATCCGCATCCCGGCGGACCAAGGCATCGCGGGCC
 ACGTGGCGACTACGGGCCAGATCCTGAACATCCCAGATGCATATGCCATCCGCTTTTCTATCGCGGCGT
 AGATGACAGCACTGGCTTCCGCACGCGCAACATTCTCTGCTTCCCTATCAAGAACGAGAACCAGGAGGTC
 ATGGTGTGGCTGAGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAGTTTGTGAGGACCTGGCCA
 CAGCCTTCTCCATCTACTGTGGCATCAGCATCGCCCACTCTCTCCTATACAAAAAGGTGAATGAAGCCCA
 ATACCGCAGCCACCTGGCCAATGAGATGATGATGATCATATGAAGGTCTCTGATGATGAATACACCAAG
 CTTCTCCACGATGGCATCCAACCTGTGGCCGCCATTGACTCCAACCTTTGCCAACCTTACCTACACGCTC
 GGTCTCTGCCTGAGGACGACACTTCTATGGCCATCCTGAGCATGCTGCAAGACATGAACTTCATCAATAA
 CTACAAAATTGACTGCCCAACTCTGGCCGATTCTGCCTGATGGTGAAGAAAGGCTACCGGGATCCACCC
 TACCACAACCTGGATGCACGCCTTCTGTCTCTCATTCTTGTACCTGCTCTACAAGAATCTGGAGCTCT
 CCAACTACCTCGAGGACATCGAGATCTTTGCAATGTTTATTTCTGCAATGTGTCATGACCTGGACCACAG
 AGGCACAAACAACTCCTTCCAGGTGGCCTCGAAATCTGTGCTGGCCGCACTCTACAGCTCAGAGGGCTCT
 GTCATGGAGAGGCACCACTTTGCTCAAGCCATTGCTATCCTCAACACCCACGGCTGCAATATCTTTGACC
 ACTTCTCTCGGAAGGACTATCAGCGCATGCTGGACCTGATGAGGGACATCATCTTGGCTACAGACCTGGC
 ACACCACCTCCGCATCTTCAAGGACCTGCAGAAGATGGCTGAAGTGGGTTATGACCGAAACAACAGGCAA
 CACCACAGGCTTCTTCTGTGCCTCCTCATGACCTCCTGTGACCTCTCTGACCAGACAAGGGCTGGAAGA
 CCACCAGAAAGATTGCAGAGCTGATCTACAAAAGTCTTCTCTCCAGGGAGACTTGGAGAAGGCCATGGG
 CAACCGACCGATGGAGATGATGGACCGTGAAGAAGGCTACATCCCTGAGCTTTCAGATCAGCTTTATGGAG
 CACATTGCCATGCCTATCTACAAGCTTTTACAAGACCTGTTCCCAAGGCGGCAGAGCTGTATGAACGTG
 TGGCCTCAACCGTGGACTGGACCAAGGTGTCCACAAGTTACCATCCGAGGCTCCCCAGTAACAA
 CTCGCTGGATTTCTGGACGAGGAATACGAGGTCCCGATTTGGACGGCACCAAGACTCTGTCAATGGC
 TGCTGCAGCCTCGAGGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001243757
Insert Size:	2751 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001243757.1, NP_001230686.1</u>
RefSeq Size:	4115 bp
RefSeq ORF:	2751 bp
Locus ID:	207728
Cytogenetics:	7 E2
Gene Summary:	<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 (4) differs in the 5' UTR and has multiple differences in the coding region, including the use of an alternate start codon, compared to variant 1. The encoded isoform, PDE2A1 (see PMID:19632989) is shorter 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>