

Product datasheet for **MC222710**

Pde2a (NM_001008548) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001008548) 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: >MC222710 representing NM_001008548
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCAGGCATGCGGCCACTCCATCCTCTGCAGGAGCCAGCAGTACCCGGCAGCGCACCGGCTGAGC
 CGCGGGCCAGCAGGTCTTCTCAAGCCGACGAGCCGCCGCGCAGCCATGCGCCGACAGCCTGCAGGA
 TGCTTTGCTGAGCCTAGGCGCCGTTATCGACATTGCTGGCCTGCGACAGGCTGCCAGGGATGCCCTCTCA
 GCCGTGCTCCCCAAAGTGGAGACTGTCTACACCTACCTGCTAGATGGGGAGTCCAGACTGGTGTGTGAGG
 ACCCCCCATGAGCTGCCACAGGAAGGAAAAATTCGAGAAGCTGTGATCTCTCAGAAGCGGCTGAGTTG
 CAATGGGTGGGACCTTCGGACCTACTGGGAAAGCCCTTGCCAGGCTGGTGGCTCCACTGGCTCCTGAC
 ATGCAAGTGTGGTCATACCCCTGCTGGACAAGGAGACTGGAAGTGTGGCAGCTGTCATCTTGGTGCCT
 GTGGCCAGCTGAGTGACAGTGAGGAACAGAGCTTGCAGGTGGTAGAGAAGCACGCTCTGGTAGCCCTGCG
 GAGGGTGCAGGCCCTGCAGCAGCGCAGGCTGAAGCTGTTCAGAACACGTCAGTGGATGCCTCTGAAGAT
 CAAAAGGATGAGAAGGGGTACACCGACCATGACCGAAAAGATCCTGCAACTGTGTGGGAACTCTTTGACT
 TGGATGCTACTTCTCTGCAGCTCAAAGTCTTCAATATCTGCAGCAGGAGACACAGGCCACTCACTGCTG
 CCTCTGCTGGTGTGGGAGACAATCTACAGCTTCTGCAAGGTCATTGGAGACAAAGTGTGGGAGAA
 GAGGTCAGCTTTCCATTGACCATGGGACGTCTGGGGCAGGTGGTGAAGACAAGCAGTGTATCCAGTTGA
 AGGACCTAACCTCTGACGATGTGCAACAGCTGCAAAACATGTTGGGTTGTGAGCTGCAGGCTATGCTGTG
 TGTCCCTGTATCAGCCGAGCCACTGACCAGGTGGTGGCCCTGGCTTGCCTTCAACAAGCTTGGAGGA
 GATTTCTCACAGATGAGGATGAACACGTGATCCAACACTGCTTCCACTACACAGGCACGGTGTCCACCA
 GCACCTTGGCCTTCCAGAAGGAGCAGAAGCTCAAGTGTGAGTGCCAGGCTCTTCTCCAAGTGGCAAAGAA
 CCTCTTCAACCACCTGGATGATGTCTCTGTCTGCTACAGGAGATCATCACGGAAGCCAGAAACCTCAGC
 AACGCAGAGATCTGCTCGGTGTTCTGCTGGATCAGAACGAGCTGGTGGCCAAGGTGTTTCGATGGTGGCG
 TTGTGGACGATGAGAGTTATGAGATCCGCATCCCGCGGACCAAGGCATCGCGGGCCACGTGGCGACTAC
 GGGCCAGATCCTGAACATCCCAGATGCATATGCCCATCCGCTTTTCTATCGCGCGTAGATGACAGCACT
 GGCTTCCGCACGCGCAACATTCTGCTTCCCTATCAAGAACGAGAACCAGGAGGTCATTGGTGTGGCTG
 AGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAGTTTGTGAGGACCTGGCCACAGCCTTCTCCAT
 CTACTGTGGCATCAGCATCGCCACTCTCTCTATACAAAAGGTGAATGAAGCCCAATACCGCAGCCAC
 CTGGCCAAATGAGATGATGATGTATCATATGAAGGTCTCTGATGATGAATACACCAAGCTTCTCCAGATG
 GCATCAAACCTGTGGCCGCAATTGACTCCAACCTTTGCCAACTTTACCTACACGCCTCGGTCTCTGCCTGA
 GGACGACACTTCTATGGCCATCCTGAGCATGCTGCAAGACATGAACCTTCAATAACTACAAAATTGAC
 TGCCCAACTCTGGCCGATTCTGCCTGATGGTGAAGAAAGGCTACCGGGATCCACCCTACCACAACCTGGA
 TGCACGCCTTCTGTCTCTCAATTTTGTACCTGCTCTACAAGAATCTGGAGCTCTCCAACCTACCTCGA
 GGACATCGAGATCTTTCGATTGTTTATTTCTGCTGATGTGTCATGACCTGGACCACAGAGGCACAAACAAC
 TCCTTCCAGGTGGCCTCGAAATCTGTGCTGGCCGCACTTACAGCTCAGAGGGCTCTGTCTGGAGAGGC
 ACCACTTTGCTCAAGCCATTGCTATCCTCAACACCCACGGCTGCAATATCTTTGACCACTTCTCTCGGAA
 GGACTATCAGCGCATGCTGGACCTGATGAGGGACATCATCTTGGCTACAGACCTGGCACACCACCTCCGC
 ATCTTCAAGGACCTGCAGAAGATGGCTGAAGTGGGTTATGACCGAAACAACAGGCAACACCAACAGGCTTC
 TTCTGTGCTCCTCATGACCTCCTGTGACCTCTGTGACCAGACAAAGGGCTGGAAGACCACCAGAAAGAT
 TGCAGAGCTGATCTACAAAGAGTTCTTCTCCCAGGGAGACTTGGAGAAGGCCATGGGCAACCGACCGATG
 GAGATGATGGACCGTGAAGGCCTACATCCCTGAGCTTCAAGTACAGCTTATGGAGCACATTGCCATGC
 CTATCTACAAGCTTTTACAAGACCTGTTCCCAAGGCGGACAGCTGTATGAACGTGTGGCTCCAACCG
 TGAGCACTGGACCAAGGTGTCCACAAGTTCACCATCCGAGGCCCTCCCAAGTAACAACCTCGTGGATTTCT
 CTGGACGAGGAATACGAGGTCCCGATTTGGACGGCACCAGAGCTCCTGTCAATGGCTGCTGCAGCCTCG
 AGGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN:	NM_001008548
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_001008548.4</u> , <u>NP_001008548.1</u>
RefSeq Size:	4208 bp
RefSeq ORF:	2808 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 (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform, PDE2A3 (see, PMID:19632989) is shorter, 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>