

Product datasheet for **MC222750**

Pde2a (NM_001143848) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001143848) 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:

>MC222750 representing NM_001143848
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCAGGCATGCGGCCACTCCATCCTCTGCAGGAGCCAGCAGTACCCGGCAGCGCAGCCGGCTGAGC
 CGCGGGCCAGCAGGTCTTCTCAAGCCGACGAGCCGCCGCGAGCCATGCGCCGACAGCCTGCAGGA
 TGCTTTGCTGAGCCTAGGCGCCGTTATCGACATTGCTGGCCTGCGACAGGCTGCCAGGGATGCCCTCTCA
 GCCGTGCTCCCCAAAGTGGAGACTGTCTACACCTACCTGCTAGATGGGGAGTCCAGACTGGTGTGTGAGG
 ACCCCCCATGAGCTGCCACAGGAAGGAAAAATTCGAGAAGCTGTGATCTCTCAGAAGCGGCTGAGTTG
 CAATGGGTGGGACCTTCGGACCTACTGGGAAAGCCCTTGCCAGGCTGGTGGCTCCACTGGCTCCTGAC
 ATGCAAGTGTGGTCATACCCCTGCTGGACAAGGAGACTGGAAGTGTGGCAGCTGTCATCTTGGTGCAT
 GTGGCCAGCTGAGTGACAGTGAGGAACAGAGCTTGCAGGTGGTAGAGAAGCACGCTCTGGTAGCCCTGCG
 GAGGGTGCAGGCCCTGCAGCAGCGCAGGCTGAAGCTGTTCAAGACACGTCAGTGGATGCCTCTGAAGAT
 CAAAAGGATGAGAAGGGGTACACCGACCATGACCGAAAGATCCTGCAACTGTGTGGGAACTCTTTGACT
 TGGATGCTACTTCTCTGCAGCTCAAAGTCTTCAATATCTGCAGCAGGAGACACAGGCCACTCACTGCTG
 CCTCTGCTGGTGTGGGAGACAATCTACAGCTTCTCTGCAAGGTCATTGGAGACAAAGTGTGGGAGAA
 GAGGTCAGCTTTCCATTGACCATGGGACGCTGGGGCAGGTGGTGAAGACAAGCAGTGTATCCAGTTGA
 AGGACCTAACCTTGACGATGTGCAACAGCTGCAAAACATGTTGGGTTGTGAGCTGCAGGCTATGCTGTG
 TGTCCCTGTATCAGCCGAGCCACTGACCAGGTGGTGGCCCTGGCTTGCCTTCAACAAGCTTGGAGGA
 GATTTCCCGACTTCCAGCTTACAGATGAGGATGAACAGTGTCCAACACTGCTCCACTACACAGGCA
 CGGTGCTCACCAGCACCTTGGCCTTCCAGAAGGAGCAGAAGCTCAAGTGTGAGTGCCAGGCTCTTTCCCA
 AGTGGCAAAGAACCTCTTCAACCCACCTGGATGATGCTCTGTCTGCTACAGGAGATCATCACGGAAGCC
 AGAAACCTCAGCAACGCAGAGATCTGCTCGGTGTTCTGCTGGATCAGAACGAGCTGGTGGCCAAGGTGT
 TCGATGGTGGCGTTGTGGACGATGAGAGTTATGAGATCCGCATCCCGCGGACCAAGGCATCGCGGGCCA
 CGTGGCGACTACGGGCCAGATCTGAACATCCCAGATGCATATGCCATCCGCTTTTCTATCGCGGCGTA
 GATGACAGCACTGGCTTCCGCACGCGCAACATTCTGCTTCCCTATCAAGAACGAGAACCAGGAGGTCA
 TTGGTGTGGCTGAGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAGTTTGTGAGGACCTGGCCAC
 AGCCTTCTCCATCTACTGTGGCATCAGCATCGCCACTCTCTCTATAAAAAAGGTGAATGAAGCCCAA
 TACCGCAGCCACCTGGCCATGAGATGATGATGATCATATGAAGTCTCTGATGATGAATACACCAAGC
 TTCTCCAGATGGCATCCAACCTGTGGCCGCAATTGACTCCAACCTTTGCCAATTTACCTACACGCCTCG
 GTCTCTGCCTGAGGACGACACTTCTATGGCCATCCTGAGCATGCTGCAAGACATGAACCTCATCAATAAC
 TACAAAATTGACTGCCAACTCTGGCCGATTCTGCCTGATGGTGAAGAAAGGCTACCGGGATCCACCTT
 ACCACAACCTGGATGCACGCCTTCTGTCTCTCATTTTTGCTACCTGCTCTACAAGAACTCTGGAGCTCTC
 CAACTACCTCGAGGACATCGAGATCTTTGCATTGTTTATTTCTGATGTGTGATGACCTGGACCACAGA
 GGCACAAAACCTCCTTCCAGGTGGCCTCGAAATCTGTGCTGGCCGCACTCTACAGCTCAGAGGGCTCTG
 TCATGGAGAGGCCACCCTTTGCTCAAGCCATTGCTATCCTCAACCCACGGCTGCAATATCTTTGACCA
 CTTCTCTCGAAGGACTATCAGCGCATGCTGGACCTGATGAGGGACATCATCTTGGCTACAGACCTGGCA
 CACCACCTCCGCATCTTCAAGGACCTGCAGAAGATGGCTGAAGTGGGTTATGACCGAAACAACAGGCAAC
 ACCACAGGCTTCTTCTGTGCCTCCTCATGACCTCCTGTGACCTCTCTGACCAGACAAGGGCTGGAAGAC
 CACCAGAAAGATTGCAGAGCTGATCTACAAAGAGTTCTTCTCCAGGGAGACTTGGAGAAGGCCATGGGC
 AACCGACCGATGGAGATGATGGACCGTGAGAAGGCCTACATCCCTGAGCTTCAAGTATGACGCTTTATGGAGC
 ACATTGCCATGCCTATCTACAAGCTTTTACAAGACCTGTTCCCAAGGCGGCAGAGCTGTATGAACGTGT
 GGCCTCCAACCGTGAAGCACTGGACCAAGGTGTCCACAAGTTCACCATCCGAGGCTCCCGAGTAAACAAC
 TCGCTGGATTTCTGAGCAGGAATACGAGGTCCCGATTGGACGGCACCAGAGCTCCTGTCAATGGCT
 GCTGCAGCCTCGAGGGC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_001143848
Insert Size:	2820 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_001143848.2</u> , <u>NP_001137320.1</u>
RefSeq Size:	4220 bp
RefSeq ORF:	2820 bp
Locus ID:	207728
UniProt ID:	<u>Q922S4</u>
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 (1) encodes 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>