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Product datasheet for MC229199

Pde2a (NM_001243758) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001243758) 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:

>MC229199 representing NM_001243758
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTGGGGCTTGCACCCTTTTCAGCCTCCTGGGACGCCGATGAAGGCCTATCTGGTAGCCTTAGGA
ACCCAGTGCTCTCACCCCACATTTGGGAACGGCGGGGCCAGCAGGTCTTCCTCAAGCCGGACGAGCCGCC
GCCGCAGCCATGCGCCGACAGCCTGCAGGATGCTTTGCTGAGCCTAGGCGCCGTTATCGACATTGCTGGC
CTGCGACAGGCTGCCAGGGATGCCCTCTCAGCCGTGCTCCCCAAAGTGGAGACTGTCTACACCTACCTGC
TAGATGGGGAGTCCAGACTGGTGTGTGAGGACCCCCCTCATGAGCTGCCACAGGAAGGAAAAATTCGAGA
AGCTGTGATCTCTCAGAAGCGGCTGAGTTGCAATGGGCTGGGACCTTCGGACCTACTGGGAAAGCCCTTG
GCCAGGCTGGTGGCTCCACTGGCTCCTGACATGCAAGTGCTGGTCATACCCCTGCTGGACAAGGAGACTG
GAAGTGTGGCAGCTGTCATCTTGGTGCACTGTGGCCAGCTGAGTGACAGTGAGGAACAGAGCTTGCAGGT
GGTAGAGAAGCACGCTCTGGTAGCCCTGCGGAGGGTGCAGGCCCTGCAGCAGCGCAGGCCTGAAGCTGTT
CAGAACACGTCAGTGGATGCCTCTGAAGATCAAAAGGATGAGAAGGGGTACACCGACCATGACCGAAAGA
TCCTGCAACTGTGTGGGGAACTCTTTGACTTGGATGCTACTTCTCTGCAGCTCAAAGTCCTTCAATATCT
GCAGCAGGAGACACAGGCCACTCACTGCTGCCTCCTGCTGGTGTCGGAGGACAATCTACAGCTTTCCTGC
AAGGTCATTGGAGACAAAGTGCTGGGAGAAGAGGTCAGCTTTCCATTGACCATGGGACGTCTGGGGCAGG
TGGTGGAAGACAAGCAGTGTATCCAGTTGAAGGACCTAACCTCTGACGATGTGCAACAGCTGCAAAACAT
GTTGGGTTGTGAGCTGCAGGCTATGCTGTGTGTCCCTGTCATCAGCCGAGCCACTGACCAGGTGGTGGCC
CTGGCTTGCGCCTTCAACAAGCTTGGAGGAGATTTCTTCACAGATGAGGATGAACACGTGATCCAACACT
GCTTCCACTACACAGGCACGGTGCTCACCAGCACCTTGGCCTTCCAGAAGGAGCAGAAGCTCAAGTGTGA
GTGCCAGGCTCTTCTCCAAGTGGCAAAGAACCTCTTCACCCACCTGGATGATGTCTCTGTCCTGCTACAG
GAGATCATCACGGAAGCCAGAAACCTCAGCAACGCAGAGATCTGCTCGGTGTTCCTGCTGGATCAGAACG
AGCTGGTGGCCAAGGTGTTCGATGGTGGCGTTGTGGACGATGAGAGTTATGAGATCCGCATCCCGGCGGA
CCAAGGCATCGCGGGCCACGTGGCGACTACGGGCCAGATCCTGAACATCCCAGATGCATATGCCCATCCG
CTTTTCTATCGCGGCGTAGATGACAGCACTGGCTTCCGCACGCGCAACATTCTCTGCTTCCCTATCAAGA
ACGAGAACCAGGAGGTCATTGGTGTGGCTGAGCTAGTGAACAAGATCAATGGGCCATGGTTCAGCAAGTT
TGATGAGGACCTGGCCACAGCCTTCTCCATCTACTGTGGCATCAGCATCGCCCACTCTCTCCTATACAAA
AAGGTGAATGAAGCCCAATACCGCAGCCACCTGGCCAATGAGATGATGATGTATCATATGAAGGTCTCTG
ATGATGAATACACCAAGCTTCTCCACGATGGCATCCAACCTGTGGCCGCCATTGACTCCAACTTTGCCAA
CTTTACCTACACGCCTCGGTCTCTGCCTGAGGACGACACTTCTATGGCCATCCTGAGCATGCTGCAAGAC
ATGAACTTCATCAATAACTACAAAATTGACTGCCCAACTCTGGCCCGATTCTGCCTGATGGTGAAGAAAG
GCTACCGGGATCCACCCTACCACAACTGGATGCACGCCTTCTCTGTCTCTCATTTTTGCTACCTGCTCTA
CAAGAATCTGGAGCTCTCCAACTACCTCGAGGACATCGAGATCTTTGCATTGTTTATTTCCTGCATGTGT
CATGACCTGGACCACAGAGGCACAAACAACTCCTTCCAGGTGGCCTCGAAATCTGTGCTGGCCGCACTCT
ACAGCTCAGAGGGCTCTGTCATGGAGAGGCACCACTTTGCTCAAGCCATTGCTATCCTCAACACCCACGG
CTGCAATATCTTTGACCACTTCTCTCGGAAGGACTATCAGCGCATGCTGGACCTGATGAGGGACATCATC
TTGGCTACAGACCTGGCACACCACCTCCGCATCTTCAAGGACCTGCAGAAGATGGCTGAAGTGGGTTATG
ACCGAAACAACAGGCAACACCACAGGCTTCTTCTGTGCCTCCTCATGACCTCCTGTGACCTCTCTGACCA
GACAAAGGGCTGGAAGACCACCAGAAAGATTGCAGAGCTGATCTACAAAGAGTTCTTCTCCCAGGGAGAC
TTGGAGAAGGCCATGGGCAACCGACCGATGGAGATGATGGACCGTGAGAAGGCCTACATCCCTGAGCTTC
AGATCAGCTTTATGGAGCACATTGCCATGCCTATCTACAAGCTTTTACAAGACCTGTTCCCCAAGGCGGC
AGAGCTGTATGAACGTGTGGCCTCCAACCGTGAGCACTGGACCAAGGTGTCCCACAAGTTCACCATCCGA
GGCCTCCCCAGTAACAACTCGCTGGATTTCCTGGACGAGGAATACGAGGTCCCCGATTTGGACGGCACCA
GAGCTCCTGTCAATGGCTGCTGCAGCCTCGAGGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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ACCN:	NM_001243758
Insert Size:	2838 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:	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:	NM_001243758.1, NP_001230687.1
RefSeq Size:	4112 bp
RefSeq ORF:	2838 bp
Locus ID:	207728
Cytogenetics:	7 E2
Gene Summary:	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] Transcript Variant: This variant (5) differs in the 5' UTR, uses an alternate splice site in the coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (5) is longer 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.

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