

Product datasheet for **MC219809**

Pde1c (NM_001159952) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_001159952) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde1c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219809 representing NM_001159952
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCTCAACCAAGGAAATTAAGAATTGAGAACTCGAGAGCAACTCTGAAACACCTGCAACCTGAGCAGA
 TCGAGAAAATCTGGCTTCGGCTCCGCGGGCTGTTACGGTCTTTGGTCAAGCAATTAAGAAGGAGAGAGGC
 CTCTGTGGTAGACCTTAAGAAGAATCTGGAATATGCAGCCACAGTGCTTGAATCTGTATATATTGATGAA
 ACAAGGCGACTGCTGGATACAGAGGATGAGCTTAGTGACATTCAATCAGATGCTGTGCCTTCAGAAGTTC
 GGGATTGGCTGGCTCCACCTTCACACGGCAGATGGGGATGATGCTTAGGAGAAGTGATGAGAAGCCAG
 GTTCAAGAGCATCGTCCATGCGGTGCAAGCTGGGATATTTGTGAAAGAATGTACAGACGGACATCAAAAC
 ATGTTGGGCTGAGCTATCCACCGCTGTAATCGATGCATTGAAGGATGTGGATACGTGGTCTTCGATG
 TCTTTCCCTCAATGAGGCCAGTGGAGATCATGCACTGAAGTTTCAATTTCTATGAATTACTCACAGTTA
 TGACCTGATCAGCCGTTTTAAGATACCGATTTCTGCATTGTCTCATTGTGGAGGCCCTCGAAGTGGGT
 TACAGCAAGCACAAAATCCTTACCATAACCTGATGCATGCAGCTGACGTACACAGACTGTGCATTACC
 TCTTTATAAGACAGGAGTAGCAAACTGGCTGACAGAGCTGGAGATCTTTGCAATAATCTTTTCGGCTGC
 CATCCATGACTATGAACATACTGGAACACAAACAATTTCCACATTCAGACTCGGTGAGTCCAGCTATC
 CTGTACAATGACAGATCTGTCCTGGAGAACCACCCTGAGTGCAGCCTACCGCTTCTGCAGGAAGACG
 AAGAGATGAATATTCTGGTTAACCTCTCAAAGGATGACTGGAGGGAGTTTCAAGCTTTGGTTATTGAGAT
 GGTAAATGGCCACAGATATGTCCTGTCAATTCAGCAAAACAAAGCCATGAAGACAGCCCTGCAGCAACCA
 GAAGCAATTGAGAAGCCGAAAGCCTTATCCCTCATGTTACACACAGCAGACATCAGTCACTCTGCGAAAG
 CATGGGACCTGCACCACCGCTGGACCATGTCTCTCTGGAGGAGTTCTTTAGACAGGGTGACAGAGAAGC
 AGAGCTGGGGCTGCCATTTTCTCTCTTTGTGACAGAAAAGTCAACCATGGTTGCTCAGTCACAAGTGGGT
 TTTATTGACTTCATTGTGGAGCCACCTTCACTGTGCTCACGGACATGACCGAGAAGATTGTGAGTCCAT
 TAATTGACGAAAGCTCCAGACTGGTGGACAGGGCAGAGGAGATCAAGTTTGAACAGCATCAACTCATC
 AGATGCAAAGCGATCCGGTGTCAAGAGTTCTGGGTGAGTGGAGTGTCCCATCAACAATTCTGTCATT
 CCTGTTGACTATAAGAGTTTTAAAGCCACTTGGACTGAGGTGGTGCAGATCAATCGGGAGCGGTGGCGAG
 CCAAGGTACCCAAAGAAGAAAAGCCAAGAAGGAAGCTGAAGAGAAGGCTCGCTGGCTGCTGAGGAAAA
 GCAAAAGGAAATGGAAGCCAAAAGCCAAGCTGAACAAGGCACAACCAGCAAAGGCCGAGAAAAAGACATCA
 GGAGAAGCCAAAAGTCAAGTCAATGGAACACGCAAGGGTATAACCCTCGTGGGAAGAACTCCAAGGAG
 AAAAGGCAGGCGAAAAGCAGCAACGGTGACTTGAAAGACGGTAAAAATAGGCAGACAAGAAGGATCA
 CTCCAACACCGGAAATGAGTCAAAGAAAACAGATGATCCAGAGGAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001159952
- Insert Size:** 1869 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:

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_001159952.1](#), [NP_001153424.1](#)

RefSeq Size: 8837 bp

RefSeq ORF: 1869 bp

Locus ID: 18575

UniProt ID: [Q64338](#)

Cytogenetics: 6 27.65 cM

Gene Summary: Calmodulin-dependent cyclic nucleotide phosphodiesterase with a dual-specificity for cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:8810348). Exhibits high affinity for both cAMP and cGMP (By similarity). Modulates the amplitude and duration of the cAMP signal in sensory cilia in response to odorant stimulation, hence contributing to the generation of action potentials. Regulates smooth muscle cell proliferation. Regulates the stability of growth factor receptors, including PDGFRB (Probable).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an in-frame exon in the 5' coding region, compared to variant 2. This results in a shorter protein (isoform c), compared to isoform b. 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.