

## Product datasheet for **MC219513**

### **Pde1c (NM\_001159957) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_001159957) 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:** >MC219513 representing NM\_001159957  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTACAGTATTCAGAGGAAATATAAGAAAACGTCCAGAGGTTACGGTCTTTGGTCAAGCAATTAG  
 AACGAGGAGAGGCTCTGTGGTAGACCTTAAGAAGAATCTGGAATATGCAGCCACAGTGCTTGAATCTGT  
 ATATATTGATGAAACAAGGCGACTGCTGGATACAGAGGATGAGCTTAGTGACATTCAATCAGATGCTGTG  
 CCTTCAGAAGTTCGGATTGGCTGGCCTCCACCTTACACGCGCAGATGGGGATGATGCTTAGGAGAAGTG  
 ATGAGAAGCCCAGGTTCAAGAGCATCGTCCATGCGGTGCAAGCTGGGATATTTGTGGAAAGAATGTACAG  
 ACGGACATCAAACATGGTTGGGCTGAGCTATCCACCGGCTGTAATCGATGCATTGAAGGATGTGGATACG  
 TGGTCCTTCGATGCTTTTCCCTCAATGAGGCCAGTGGAGATCATGCACTGAAGTTCATTTTCTATGAAT  
 TACTCACAGTATGACCTGATCAGCCGTTTTAAGATACCGATTCTGCCTTGTCTCATTGTGGAGGC  
 CCTCGAAGTGGGTTACAGCAAGCACAAAATCCTTACCATAACCTGATGCATGCAGCTGAGTCCACACAG  
 ACTGTGCATTACCTCCTTTATAAGACAGGAGTAGCAAACCTGGCTGACAGAGCTGGAGATCTTTGCAATAA  
 TCTTTTCGGCTGCCATCCATGACTATGAACATACTGGAACACAAAATTTCCACATTCAGACTCGGTC  
 AGATCCAGCTATCCTGTACAATGACAGATCTGTCTGGAGAACCACCTGAGTGCAGCCTACCGCCTT  
 CTGCAGGAAGACGAAGAGATGAATTTCTGGTTAACCTCTCAAAGGATGACTGGAGGGAGTTTCCAATCT  
 TGGTTATTGAGATGGTAATGGCCACAGATATGCTCTGTCAATTCAGCAAATCAAAGCCATGAAGACAGC  
 CCTGCAGCAACCAAGCAATTGAGAAGCCGAAAGCCTTATCCCTCATGTTACACACAGCAGACATCAGT  
 CATCCTGCGAAAGCATGGGACCTGCACCACCGCTGGACCATGTCTCTCTGGAGGAGTCTTTAGACAGG  
 GTGACAGAGAAGCAGAGCTGGGGCTGCCATTTTCTCTCTTTGTGACAGAAAGTCAACCATGGTTGGCTCA  
 GTCACAAGTGGGTTTTATTGACTTCATTGTGGAGCCACCTTCACTGTGCTCACGGACATGACCGAGAAG  
 ATTGTGAGTCCATTAATTGACGAAAGCTCCAGACTGGTGGGACAGGGCAGAGGAGATCAAGTTTGAACA  
 GCATCAACTCATCAGATGCAAAGCGATCCGGTGTCAAGAGTTCTGGGTCAGATGGAAGTGTCCCATCAA  
 CAATTCTGTATTCTGTGACTATAAGAGTTTTAAAGCCACTTGGACTGAGGTGGTGCAGATCAATCGG  
 GAGCGGTGGCGAGCCAAGGTACCCAAAGAAGAAAAGCCAAGAAGGAAGCTGAAGAGAAGGCTCGCCTGG  
 CTGCTGAGGAAAAGCAAAGGAAATGGAAGCCAAAAGCCAAGCTGAACAAGGCACAACCAGCAAAGGCGA  
 GAAAAAGACATCAGGAGAAGCCAAAAGTCAAGTCAATGGAACACGCAAGGGTGATAACCCCTCGTGGGAAG  
 AACTCAAAGGAGAAAAGGCAGGCGAAAAGCAGCAGAACGGTGACTTGAAGACGGTAAAAATAAGGCAG  
 ACAAGAAGGATCACTCCAACACCGGAAATGAGTCAAAGAAAACAGATGATCCAGAGGAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001159957
- Insert Size:** 1812 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001159957.1, NP_001153429.1</u>
<b>RefSeq Size:</b>	8310 bp
<b>RefSeq ORF:</b>	1812 bp
<b>Locus ID:</b>	18575
<b>Cytogenetics:</b>	6 27.65 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and 5' coding region but maintains the reading frame, compared to variant 2. This results in a distinct N-terminus and shorter protein (isoform e), 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.</p>