

## Product datasheet for **MC219708**

### **Pde1c (NM\_001159956) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_001159956) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde1c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC219708 representing NM\_001159956  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTACAGTATTCAGTTACGGTCTTTGGTCAAGCAATTAGAACGAGGAGAGGCCCTCTGTGGTAGACC  
 TTAAGAAGAATCTGGAATATGCAGCCACAGTGCCTGAATCTGTATATATTGATGAAACAAGGCGACTGCT  
 GGATACAGAGGATGAGCTTAGTGACATTCAATCAGATGCTGTGCCTTCAGAAGTTCGGGATTGGCTGGCC  
 TCCACCTTACACCGCAGATGGGATGATGCTTAGGAGAAGTGTAGAGAAGCCAGGTTCAAGAGCATCG  
 TCCATGCGGTGCAAGCTGGGATATTTGTGAAAGAATGTACAGACGGACATCAAACATGGTTGGGCTGAG  
 CTATCCACCGGCTGAATCGATGCATTGAAGGATGTGGATACGTGGTCTTCGATGTCTTTCCCTCAAT  
 GAGGCCAGTGGAGATCATGCACTGAAGTTCATTTCTATGAATTACTCACAGTTATGACCTGATCAGCC  
 GTTTTAAGATACCGATTTCTGCACTTGTCTCATTTGTGGAGGCCCTCGAAGTGGTTACAGCAAGCACAA  
 AAATCCTTACCATAACCTGATGCATGCAGCTGACGTACACAGACTGTGCATTACCTCCTTTATAAGACA  
 GGAGTAGCAAACCTGGCTGACAGAGCTGGAGATCTTTGCAATAATCTTTTCGGCTGCCATCCATGACTATG  
 AACATACTGGAACATAACAATTTCCACATTCAGACTCGGTACAGATCCAGCTATCCTGTACAATGACAG  
 ATCTGTCTGGAGAACCACCTGAGTGCAGCCTACCGCCTTCTGCAGGAAGACGAAGAGATGAATATT  
 CTGGTTAACTCTCAAAGGATGACTGGAGGGAGTTTCAACTTTGGTTATTGAGATGGTAATGGCCACAG  
 ATATGTCTGTCAATTCAGCAAATCAAAGCCATGAAGACAGCCCTGCAGCAACCAGAAGCAATTGAGAA  
 GCCGAAAGCCTTATCCCTCATGTTACACACAGCAGACATCAGTCATCCTGCGAAAGCATGGGACCTGCAC  
 CACCGCTGGACCATGTCTCTCTGGAGGAGTCTTTAGACAGGGTGACAGAGAAGCAGAGCTGGGCTGC  
 CATTTTCTCTCTTTGTGACAGAAAGTCAACCATGGTTGCTCAGTCACAAGTGGGTTTTATTGACTTCAT  
 TGTGGAGCCACCTTCACTGTGCTCACGGACATGACCGAGAAGATTGTGAGTCCATTAATTGACGAAAGC  
 TCCAGACTGGTGGGACAGGGCAGAGGAGATCAAGTTTGAACAGCATCAACTCATCAGATGCAAAGCGAT  
 CCGGTGTCAAGAGTTCTGGGTGAGATGGAAGTGTCCCATCAACAATTCTGTCTTCTGTTGACTATAA  
 GAGTTTTAAAGCCACTTGGACTGAGGTGGTGCAGATCAATCGGGAGCGGTGGCGAGCCAAGGTACCCAAA  
 GAAGAAAAGCCAAGAAGGAAGTGAAGAGAAGGCTCGCTGGCTGTGAGGAAAAGCAAAGGAAATGG  
 AAGCCAAAAGCCAAGCTGAACAAGGCACAACCAGCAAAGGCGAGAAAAGACATCAGGAGAAGCCAAAAG  
 TCAAGTCAATGGAACACGCAAGGGTGATAACCCTCGTGGGAAGAACTCCAAGGAGAAAAGCAGGCGAA  
 AAGCAGCAGAACGGTACTTGAAGACGGTAAAAATAAGGCAGACAAGAAGGATCACTCCAACACCGGAA  
 ATGAGTCAAAGAAAACAGATGGTACAAAGAAGCGTTCTCATGGCTCACCTGCTCCGAGCACTAGTCCAC  
 AAGTCGATTACCTTCCAGGAGACTACGGAT**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001159956
- Insert Size:** 1854 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><a href="#">NM_001159956.1</a></u> , <u><a href="#">NP_001153428.1</a></u>
<b>RefSeq Size:</b>	4118 bp
<b>RefSeq ORF:</b>	1854 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 (6) differs in the 5' UTR, 5' coding region, and 3' coding region, compared to variant 2. This results in distinct N- and C-termini and a shorter protein (isoform f), compared to isoform b.</p>