

Product datasheet for **MC220163**

Pde1c (NM_001159955) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_001159955) 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: >MC220163 representing NM_001159955
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCTCAACCAAGGAAATTGAAGAATTCGAGAGCAACTCTCTGAAACACCTGCAACCTGAGCAGA
 TCGAGAAAATCTGGCTTCGGCTCCGCGGCTGAGGAAATAAAGAAAACGTCCCAGAGGTTACGGTCTTT
 GGTCAAGCAATTAGAACGAGGAGAGGCCTCTGTGGTAGACCTTAAGAAAGATCTGGAATATGCAGCCACA
 GTGCTTGAATCTGTATATATTGATGAAACAAGCGACTGCTGGATACAGAGGATGAGCTTAGTGACATTC
 AATCAGATGCTGTGCCTCAGAAGTTCGGGATTGGCTGGCCTCCACCTTCACACGCAGATGGGGATGAT
 GCTTAGGAGAAGTGATGAGAAGCCAGGTTCAAGAGCATCGTCCATGCGGTGCAAGCTGGGATATTTGTG
 GAAAGAATGTACAGACGGACATCAAACATGGTTGGGCTGAGCTATCCACCGGCTGTAATCGATGCATTGA
 AGGATGTGGATACGTGGTCTTCGATGTCTTTCCCTCAATGAGGCCAGTGGAGATCATGCACTGAAGTT
 CATTTTCTATGAATTACTCACACGTTATGACCTGATCAGCCGTTTTAAGATACCGATTTCTGCATTGTC
 TCAATTTGTGGAGGCCCTCGAAGTGGTTACAGCAAGCACAAAAATCCTTACCATAACCTGATGCATGCAG
 CTGACGTCACACAGACTGTGCATTACCTCCTTTATAAGACAGGAGTAGCAAACCTGGCTGACAGAGCTGGA
 GATCTTTGCAATAATCTTTTCGGCTGCCATCCATGACTATGAACATACTGGAACACAAAACATTTCCAC
 ATTCAGACTCGGTGAGATCCAGCTATCCTGTACAATGACAGATCTGCTCCTGGAGAACCACCACCTGAGTG
 CAGCCTACCGCCTTCTGCAGGAAGACGAAGAGATGAATATTCTGGTTAACCTCTCAAAGGATGACTGGAG
 GGAGTTTCGAACCTTTGGTTATTGAGATGGTAATGGCCACAGATATGCTCCTGTCATTTCCAGCAAATCAA
 GCCATGAAGACAGCCCTGCAGCAACCAGAAGCAATTGAGAAGCCGAAAGCCTTATCCCTCATGTTACACA
 CAGCAGACATCAGTCATCCTGCGAAAGCATGGGACCTGCACCAGCTGGACCATGTCTCTCCTGGAGGA
 GTTCTTTAGACAGGGTGACAGAGAAGCAGAGCTGGGGCTGCCATTTTCTCCTTTGTGACAGAAAGTCA
 ACCATGGTTGCTCAGTCAACAAGTGGTTTTATTGACTTATTGTGGAGCCACCTTCACTGTGCTCACGG
 ACATGACCGAGAAGATTGTGAGTCCATTAATTGACGAAAGCTCCCAGACTGGTGGGACAGGGCAGAGGAG
 ATCAAGTTTGAACAGCATCAACTCATCAGATGCAAAGCGATCCGGTGTCAAGAGTTCTGGGTGAGATGGA
 AGTGCTCCCATCAACAATTCTGTCATTCTGTTGACTATAAGAGTTTTAAAGCCACTTGGACTGAGGTGG
 TGCAGATCAATCGGGAGCGGTGGCGAGCCAAGGTACCCAAAGAAGAAAAAGCCAAGAAGGAAAGCTGAAGA
 GAAGGCTCGCCTGGCTGTGAGGAAAAGCAAAGGAAATGGAAGCCAAAAGCCAAGCTGAACAAGGCACA
 ACCAGCAAAGGCGAGAAAAGACATCAGGAGAAGCCAAAAGTCAAGTCAATGGAACACGCAAGGGTGATA
 ACCCTCGTGGGAAGAAGCTCAAAGGAGAAAAGGCAGGCGAAAAGCAGCAGAACGGTGACTTGAAAGACGG
 TAAAAATAAGGCAGACAAGAAGGATCACTCCAACACCGGAAATGAGTCAAAGAAAACAGATGGTACAAA
 AAGCGTTCTATGGCTCACCTGCTCCGAGCACTAGTTCACAAGTCGCATTACCTTGCCAGGAGACTACG
GATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001159955
- Insert Size:** 1965 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_001159955.1</u> , <u>NP_001153427.1</u>
RefSeq Size:	4261 bp
RefSeq ORF:	1965 bp
Locus ID:	18575
UniProt ID:	<u>Q64338</u>
Cytogenetics:	6 27.65 cM
Gene Summary:	<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 (7) differs in the 5' UTR and uses an alternate 3' exon structure compared to variant 2. Variants 1, 7 and 9 encode the same isoform (a), which is longer and has a distinct C-terminus, compared to isoform b.</p>