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Product datasheet for MC220164

Pde1c (NM_011054) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_011054) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC220164 representing NM_011054
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCTCCAACCAAGGAAATTGAAGAATTCGAGAGCAACTCTCTGAAACACCTGCAACCTGAGCAGA
TCGAGAAAATCTGGCTTCGGCTCCGCGGGCTGAGGAAATATAAGAAAACGTCCCAGAGGTTACGGTCTTT
GGTCAAGCAATTAGAACGAGGAGAGGCCTCTGTGGTAGACCTTAAGAAGAATCTGGAATATGCAGCCACA
GTGCTTGAATCTGTATATATTGATGAAACAAGGCGACTGCTGGATACAGAGGATGAGCTTAGTGACATTC
AATCAGATGCTGTGCCTTCAGAAGTTCGGGATTGGCTGGCCTCCACCTTCACACGGCAGATGGGGATGAT
GCTTAGGAGAAGTGATGAGAAGCCCAGGTTCAAGAGCATCGTCCATGCGGTGCAAGCTGGGATATTTGTG
GAAAGAATGTACAGACGGACATCAAACATGGTTGGGCTGAGCTATCCACCGGCTGTAATCGATGCATTGA
AGGATGTGGATACGTGGTCCTTCGATGTCTTTTCCCTCAATGAGGCCAGTGGAGATCATGCACTGAAGTT
CATTTTCTATGAATTACTCACACGTTATGACCTGATCAGCCGTTTTAAGATACCGATTTCTGCACTTGTC
TCATTTGTGGAGGCCCTCGAAGTGGGTTACAGCAAGCACAAAAATCCTTACCATAACCTGATGCATGCAG
CTGACGTCACACAGACTGTGCATTACCTCCTTTATAAGACAGGAGTAGCAAACTGGCTGACAGAGCTGGA
GATCTTTGCAATAATCTTTTCGGCTGCCATCCATGACTATGAACATACTGGAACTACAAACAATTTCCAC
ATTCAGACTCGGTCAGATCCAGCTATCCTGTACAATGACAGATCTGTCCTGGAGAACCACCACCTGAGTG
CAGCCTACCGCCTTCTGCAGGAAGACGAAGAGATGAATATTCTGGTTAACCTCTCAAAGGATGACTGGAG
GGAGTTTCGAACTTTGGTTATTGAGATGGTAATGGCCACAGATATGTCCTGTCATTTCCAGCAAATCAAA
GCCATGAAGACAGCCCTGCAGCAACCAGAAGCAATTGAGAAGCCGAAAGCCTTATCCCTCATGTTACACA
CAGCAGACATCAGTCATCCTGCGAAAGCATGGGACCTGCACCACCGCTGGACCATGTCTCTCCTGGAGGA
GTTCTTTAGACAGGGTGACAGAGAAGCAGAGCTGGGGCTGCCATTTTCTCCTCTTTGTGACAGAAAGTCA
ACCATGGTTGCTCAGTCACAAGTGGGTTTTATTGACTTCATTGTGGAGCCCACCTTCACTGTGCTCACGG
ACATGACCGAGAAGATTGTGAGTCCATTAATTGACGAAAGCTCCCAGACTGGTGGGACAGGGCAGAGGAG
ATCAAGTTTGAACAGCATCAACTCATCAGATGCAAAGCGATCCGGTGTCAAGAGTTCTGGGTCAGATGGA
AGTGCTCCCATCAACAATTCTGTCATTCCTGTTGACTATAAGAGTTTTAAAGCCACTTGGACTGAGGTGG
TGCAGATCAATCGGGAGCGGTGGCGAGCCAAGGTACCCAAAGAAGAAAAAGCCAAGAAGGAAGCTGAAGA
GAAGGCTCGCCTGGCTGCTGAGGAAAAGCAAAAGGAAATGGAAGCCAAAAGCCAAGCTGAACAAGGCACA
ACCAGCAAAGGCGAGAAAAAGACATCAGGAGAAGCCAAAAGTCAAGTCAATGGAACACGCAAGGGTGATA
ACCCTCGTGGGAAGAACTCCAAAGGAGAAAAGGCAGGCGAAAAGCAGCAGAACGGTGACTTGAAAGACGG
TAAAAATAAGGCAGACAAGAAGGATCACTCCAACACCGGAAATGAGTCAAAGAAAACAGATGGTACAAAG
AAGCGTTCTCATGGCTCACCTGCTCCGAGCACTAGTTCCACAAGTCGCATTACCTTGCCAGGAGACTACG
GATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011054

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).

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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_011054.4, NP_035184.1
RefSeq Size:	4676 bp
RefSeq ORF:	1965 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 (1) 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.

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