

Product datasheet for **MR217677**

Pde1c (NM_011054) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>MR217677 representing NM_011054
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGTCTCAACCAAGGAAATTGAAGAATTCGAGAGCAACTCTCTGAAACACCTGCAACCTGAGCAGA
TCGAGAAAATCTGGCTTCGGCTCCGCGGCTGAGGAAATAAAGAAAACGTCCCAGAGGTTACGGTCTTT
GGTCAAGCAATTAGAACGAGGAGAGGCCTCTGTGGTAGACCTTAAGAAGAATCTGGAATATGCAGCCACA
GTGCTTGAATCTGTATATATTGATGAAACAAGGCGACTGCTGGATACAGAGGATGAGCTTAGTGACATTC
AATCAGATGCTGTGCCTCAGAAGTTCGGGATTGGCTGGCTCCACCTTCACACGCAGATGGGGATGAT
GCTTAGGAGAAGTGATGAGAAGCCAGGTTCAAGAGCATCGTCCATGCGGTGCAAGCTGGGATATTTGTG
GAAAGAATGTACAGACGGACATCAAACATGGTTGGGCTGAGCTATCCACCGGCTGTAATCGATGCATTGA
AGGATGTGGATACGTGGTCTTCGATGTCTTTCCCTCAATGAGGCCAGTGGAGATCATGCACTGAAGTT
CATTTTCTATGAATTACTCACACGTTATGACCTGATCAGCCGTTTTAAGATACCGATTTCTGCATTGTG
TCATTTGTGGAGGCCCTCGAAGTGGGTTACAGCAAGCACAAAAATCCTTACCATAACCTGATGCATTGCAG
CTGACGTCACACAGACTGTGCATTACCTCCTTTATAAGACAGGAGTAGCAAACCTGGCTGACAGAGCTGGA
GATCTTTGCAATAATCTTTTCGGCTGCCATCCATGACTATGAACATACTGGAACACAAAACATTTCCAC
ATTCAGACTCGGTGAGATCCAGCTATCCTGTACAATGACAGATCTGTCCTGGAGAACCACCACCTGAGTG
CAGCCTACCGCCTTCTGCAGGAAGACGAAGAGATGAATATTCTGGTTAACCTCTCAAAGGATGACTGGAG
GGAGTTTCAACTTTGGTTATTGAGATGGTAATGGCCACAGATATGTCCTGTCAATTTCCAGCAAATCAA
GCCATGAAGACAGCCCTGCAGCAACCAGAAGCAATTGAGAAGCCGAAAGCCTTATCCCTCATGTTACACA
CAGCAGACATCAGTCATCCTGCGAAAGCATGGGACCTGCACCACCGCTGGACCATGTCTCTCCTGGAGGA
GTTCTTTAGACAGGGTGACAGAGAAGCAGAGCTGGGGCTGCCATTTTCTCCTTTTGTGACAGAAAGTCA
ACCATGGTTGCTCAGTCACAAGTGGGTTTTATTGACTTATTGTGGAGCCACCTTCACTGTGCTCACGG
ACATGACCGAGAAGATTGTGAGTCCATTAATTGACGAAAGCTCCCAGACTGGTGGACAGGGCAGAGGAG
ATCAAGTTTGAACAGCATCAACTCATCAGATGCAAAGCGATCCGGTGTCAAGAGTTCTGGGTGAGATGGA
AGTGCTCCCATCAACAATTCTGTATTCTGTTGACTATAAGAGTTTTAAAGCCACTTGGACTGAGGTGG
TGCAGATCAATCGGGAGCGGTGGCGAGCCAAGGTACCCAAAGAAGAAAAAGCCAAGAAGGAAGCTGAAGA
GAAGGCTCGCCTGGCTGCTGAGGAAAAGCAAAAGGAAATGGAAGCCAAAAGCCAAGCTGAACAAGGCACA
ACCAGCAAAGGCGAGAAAAGACATCAGGAGAAGCCAAAAGTCAAGTCAATGGAACACGCAAGGGTGATA
ACCCTCGTGGGAAGAACTCCAAAGGAGAAAAGGCAGGCGAAAAGCAGCAGAACGGTGACTTGAAAGACGG
TAAAAATAAGGCAGACAAGAAGGATCACTCCAACACCGGAAATGAGTCAAAGAAAACAGATGGTACAAA
AAGCGTTCATGGCTCACCTGCTCCGAGCACTAGTTCACAAGTCGCATTACCTTGCCAGGAGACTACG
GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217677 representing NM_011054
Red=Cloning site Green=Tags(s)

MESPTKEIEEFESNSLKHLLQPEQIEKIWLRLRGLRKYKKTSQLRSLVKQLERGEASVVDLKKNLEYAAT
VLESVYIDETRRLLDTEDELSDIQSDAVPSEVRDWLASTFTRQMGMLRRSDEKPRFKSIVHAVQAGIFV
ERMYRRTSNMVGLSYPPAVIDALKDVDTSFDFVSLNEASGDHALKFIYELLTRYDLISRFKIPISALV
SFVEALEVGYSKHKNPYHNLMAADVTQTVHYLLYKTGVANWLTELEIFAIIFSAAIHDYEHTGTTNNFH
IQTRSDPAILYNDRSVLENHHL SAAAYRL LQEDEEMNILVNL SKDDWREFRTLVIEMVMATDMSCHFQQIK
AMKTALQQPEAIEKPKALSLMLHTADISHPAKAWDLHHRWTMSLLEEFFRQGDREAELGLPFSPLCDRKS
TMVAQSQVGFIDFIVEPTFTVL TDMTEKIVSPL IDESSQTGGTGQRRSSLNSINSSDAKRSQVSKSSGSDG
SAPINNSVIPVDYKSFKATWTEVVQINRERWRKVPKEEKAKKEAEEKARLAAEEKQKEMEAKSQAEEGT
TSKGEKTSGEAKSQVNGTRKGDNPRGKNSKGEKAGEKQNGDLKDGKNKADKKDHSNTGNESKKTDTGK
KRSHGSPAPSTSSTRITLPGDYG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011054

ORF Size: 1962 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_011054.4](#), [NP_035184.1](#)

RefSeq Size: 4676 bp

RefSeq ORF: 1965 bp

Locus ID: 18575

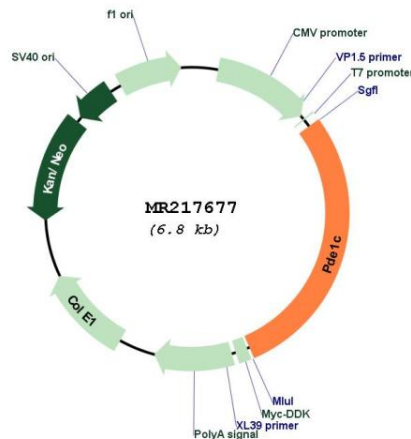
UniProt ID: [Q64338](#)

Cytogenetics: 6 27.65 cM

MW: 74.5 kDa

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]

Product images:



Circular map for MR217677