

Product datasheet for **MR216133**

Pde1c (NM_001159952) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_001159952) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde1c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR216133 representing NM_001159952
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTCTCAACCAAGGAAATGAAGAATTCGAGAGCAACTCTCTGAAACACCTGCAACCTGAGCAGA
 TCGAGAAAATCTGGCTTCGGCTCCGCGGGCTGTTACGGTCTTTGGTCAAGCAATTAAGAACGAGGAGAGGC
 CTCTGTGGTAGACCTTAAGAAGAATCTGGAATATGCAGCCACAGTGCTTGAATCTGTATATATTGATGAA
 ACAAGGCGACTGCTGGATACAGAGGATGAGCTTAGTGACATTCAATCAGATGCTGTGCCTTCAGAAGTTC
 GGGATTGGCTGGCTCCACCTTCACACGGCAGATGGGGATGATGCTTAGGAGAAGTGATGAGAAGCCAG
 GTTCAAGAGCATCGTCCATGCGGTGCAAGCTGGGATATTTGTGGAAGAATGTACAGACGGACATCAAAC
 ATGTTGGGCTGAGCTATCCACCGCTGTAATCGATGCATTGAAGGATGTGGATACGTGGTCTTCGATG
 TCTTTCCCTCAATGAGGCCAGTGGAGATCATGCACTGAAGTTTCAATTTCTATGAATTACTCACAGTTA
 TGACCTGATCAGCCGTTTTAAGATACCGATTTCTGCATTGTCTCATTGTGGAGGCCCTCGAAGTGGGT
 TACAGCAAGCACAAAAATCCTTACCATAACCTGATGCATGCAGCTGACGTACACAGACTGTGCATTACC
 TCTTTATAAGACAGGAGTAGCAAACCTGGCTGACAGAGCTGGAGATCTTTGCAATAATCTTTTCGGCTGC
 CATCCATGACTATGAACATACTGGAACACAAACAATTTCCACATTCAGACTCGGTGAGTCCAGCTATC
 CTGTACAATGACAGATCTGTCTGGAGAACCACCCTGAGTGCAGCCTACCGCTTCTGCAGGAAGACG
 AAGAGATGAATATTCTGGTTAACCTCTCAAAGGATGACTGGAGGGAGTTTCAAGCTTTGGTTATTGAGAT
 GGTAAATGGCCACAGATATGTCCTGTCAATTCAGCAAAACAAAGCCATGAAGACAGCCCTGCAGCAACCA
 GAAGCAATTGAGAAGCCGAAAGCCTTATCCCTCATGTTACACACAGCAGACATCAGTCACTCTGCGAAAG
 CATGGGACCTGCACCACCGCTGGACCATGTCTCTCTGGAGGAGTTCTTTAGACAGGGTGACAGAGAAGC
 AGAGCTGGGGCTGCCATTTTCTCCTCTTTGTGACAGAAAAGTCAACCATGGTTGCTCAGTCACAAGTGGGT
 TTTATTGACTTCATTGTGGAGCCACCTTCACTGTGCTCACGGACATGACCGAGAAGATTGTGAGTCCAT
 TAATTGACGAAAGCTCCCAGACTGGTGGACAGGGCAGAGGAGATCAAGTTTGAACAGCATCAACTCATC
 AGATGCAAAGCGATCCGGTGTCAAGAGTTCTGGGTGAGTGGAGTGTCCCATCAACAATTCTGTCATT
 CCTGTTGACTATAAGAGTTTTAAAGCCACTTGGACTGAGGTGGTGCAGATCAATCGGAGCGGTGGCGAG
 CCAAGGTACCCAAAGAAGAAAAAGCCAAGAAGGAAGCTGAAGAGAAGGCTCGCTGGCTGCTGAGGAAAA
 GCAAAAAGGAAATGAAGCCAAAAGCCAAGCTGAACAAGGCACAACCAGCAAAGGGCAGAAAAAGACATCA
 GGAGAAGCCAAAAGTCAAGTCAATGGAACACGCAAGGGTATAACCTCGTGGGAAGAACTCCAAGGAG
 AAAAGGCAGGCGAAAAGCAGCAACGGTACTTGAAGACGGTAAAAATAGGCAGACAAGAAGGATCA
 CTCCAACACCGGAAATGAGTCAAAGAAAACAGATGATCCAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216133 representing NM_001159952
 Red=Cloning site Green=Tags(s)

MESPTKEIEEFESNSLKHLPQEQIEKIWLRLRGLLRSLVKQLERGEASVVDLKKNLEYAATVLESVYIDE
 TRRLDTEDELSDIQSDAVPSEVRDWLASTFTRQMGMLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSN
 MVGLSYPPAVIDALKDVDTWSDVFLNEASGDHALKIFYELLTRYDLISRFKIPIALSIVFVEALEVGV
 YSKHKNPYHNLMAADVTQTQVHYLLYKTVANWLTELEIFAIIFSAAIHDIYEHTGTTNNFHIQTRSDPAI
 LYNDRSVLENHHL SAAAYRLLQEDEEMNILVNL SKDDWREFRFLV IEMVMTDMSCHFQQIKAMKTAQQP
 EAIEKPKALSLMLHTADISHPAKAWDLHHRWTMSLLEEFRRQGDREAELGLPFSPLCDRSTMVAVSQVGV
 FIDFIVEPTFTVL TDMTEKIVSPLIDESSQTGGTGQRSSLSINS SDAKRSGVKSSGSDGSAPINNSVI
 PVDYKSFKATWTEVVQINRERWRKVPKEEKAKKEAEKARLAAEEKQKEMEAKSQAEQGTTSKGEKKT
 SGEAKSQVNGTRKGDNPRGKNSKGEKAGEKQNGDLKDGKNKADKKDHSNTGNEKKTDDPEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

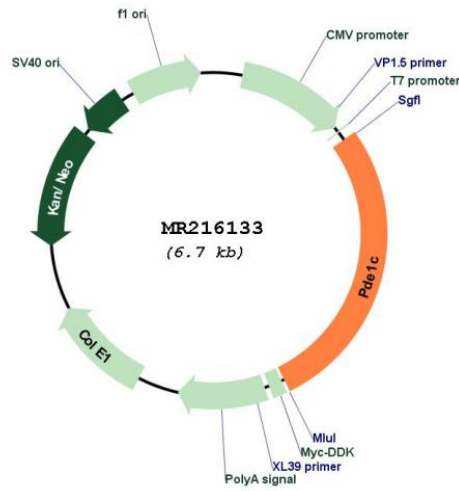
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001159952
 ORF Size: 1866 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:	<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:	NM_001159952.1 , NP_001153424.1
RefSeq Size:	8837 bp
RefSeq ORF:	1869 bp
Locus ID:	18575
UniProt ID:	Q64338
Cytogenetics:	6 27.65 cM
MW:	71 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]