

Product datasheet for **MR216161**

Pde1c (NM_001159956) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde1c (NM_001159956) 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:

>MR216161 representing NM_001159956
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTACAGTATTCAGTTACGGTCTTTGGTCAAGCAATTAGAACGAGGAGAGGCCCTCTGTGGTAGACC
 TTAAGAAGAATCTGGAATATGCAGCCACAGTGCCTGAATCTGTATATATTGATGAAACAAGCGACTGCT
 GGATACAGAGGATGAGCTTAGTGACATTCAATCAGATGCTGTGCCTTCAGAAGTTCGGGATTGGCTGGCC
 TCCACCTTACACCGGCAGATGGGGATGATGCTTAGGAGAAGTGTAGAGAAGCCAGGTTCAAGAGCATCG
 TCCATGCGGTGCAAGCTGGGATATTTGTGGAAAGAATGTACAGACGGACATCAAACATGGTTGGGCTGAG
 CTATCCACCGGCTGTAATCGATGCATTGAAGGATGTGGATACGTGGTCTTCGATGTCTTTCCCTCAAT
 GAGGCCAGTGGAGATCATGCACTGAAGTTCATTTCTATGAATTACTCACAGTTATGACCTGATCAGCC
 GTTTTAAGATACCGATTTCTGCACTTGTCTCATTTGTGGAGGCCCTCGAAGTGGTTACAGCAAGCACAA
 AAATCCTTACCATAACCTGATGCATGCAGCTGACGTACACAGACTGTGCATTACCTCCTTTATAAGACA
 GGAGTAGCAAACCTGGCTGACAGAGCTGGAGATCTTTGCAATAATCTTTTCGGCTGCCATCCATGACTATG
 AACATACTGGAAC TACAACAATTTCCACATTCAGACTCGGT CAGATCCAGCTATCCTGTACAATGACAG
 ATCTGTCTGGAGAACCACCTGAGTGCAGCCTACCGCCTTCTGCAGGAAGACGAAGAGATGAATATT
 CTGGTTAACCTCTCAAAGGATGACTGGAGGGAGTTTCAACTTTGGTTATTGAGATGGTAATGGCCACAG
 ATATGTCTGTCAATTCAGCAAATCAAAGCCATGAAGACAGCCCTGCAGCAACCAGAAGCAATTGAGAA
 GCCGAAAGCCTTATCCCTCATGTTACACACAGCAGACATCAGTCATCCTGCGAAAGCATGGGACCTGCAC
 CACCGTGGACCATGTCTCTCTGGAGGAGTCTTTAGACAGGGTGACAGAGAAGCAGAGCTGGGGCTGC
 CATTTTCTCCTCTTTGTGACAGAAAGTCAACCATGGTTGCTCAGTCACAAGTGGGTTTTATTGACTTCAT
 TGTGGAGCCACCTTCACTGTGCTCACGGACATGACCGAGAAGATTGTGAGTCCATTAATTGACGAAAGC
 TCCAGACTGGTGGGACAGGGCAGAGGAGATCAAGTTTGAACAGCATCAACTCATCAGATGCAAAGCGAT
 CCGGTGTCAAGAGTTCTGGGTGAGATGGAAGTGTCCCATCAACAATTCTGTCTTCTGTTGACTATAA
 GAGTTTTAAAGCCACTTGGACTGAGGTGGTGCAGATCAATCGGGAGCGGTGGCGAGCCAAGGTACCCAAA
 GAAGAAAAGCCAAGAAGGAAGCTGAAGAGAAGGCTCGCCTGGCTGTGAGGAAAAGCAAAGGAAATGG
 AAGCCAAAAGCCAAGCTGAACAAGGCACAACCAGCAAAGGCGAGAAAAGACATCAGGAGAAGCCAAAAG
 TCAAGTCAATGGAACACGCAAGGGTGATAACCCTCGTGGGAAGAACTCCAAGGAGAAAAGCAGGCGAA
 AAGCAGCAGAACGGTACTTGAAGACGGTAAAAATAAGGCAGACAAGAAGGATCACTCCAACACCGGAA
 ATGAGTCAAAGAAAACAGATGGTACAAAGAAGCGTTCTCATGGCTCACCTGCTCCGAGCACTAGTCCAC
 AAGTCGCATTACCTTGCCAGGAGACTACGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216161 representing NM_001159956
 Red=Cloning site Green=Tags(s)

MAYSIQLRSLVKQLERGEASVVDLKKNLEYAATVLESVYIDETRRLDTEDELSDIQSDAVPSEVRDWLA
 STFTRQMGMLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSNMVGLSYPPAVIDALKDVDTWSDVFSLN
 EASGDHALKIFIFYELLTRYDLISRFKIPIISALVSFVEALEVGYSKHKNPYHNLMAADVTQTVHYLLYKT
 GVANWLTELEIFAIIFSAIHDYEHTGTTNNFHIQTRSDPAILYNDRSVLENHHL SAAYRLLQEDEEMNI
 LVNLSKDDWREFRTLVIEMVMATDMSCHFQQIKAMKTALQQPEAIEKPKALSLMLHTADISHPAKAWDLH
 HRWTMSLLEEFFRQGDREAELGLPFSPLCDRKSTMVAQSQVGFIDFIVEPTFTVL TDMTEKIVSPLIDES
 SQTGGTGQRRSSLNSINSSDAKRSVKS SSGSDGSAPINNSVIPVDYKSFKATWTEVVQINRERWRKVPK
 EEKAKKEAEKARLAAEEKQKEMEAKSQAEQGTTSKGEKTSGEAKSQVNGTRKGDNPRGKNSKGEKAGE
 KQQNGDLKDGKKNADKKDHSNTGNESKKTGDKKRSHGSPAPSTSSTSRITLPGDYG

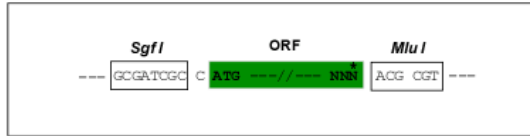
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

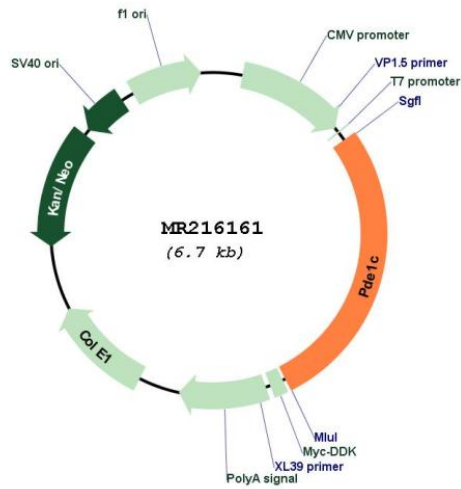
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001159956

ORF Size: 1851 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_001159956.1 , NP_001153428.1
RefSeq Size:	4118 bp
RefSeq ORF:	1854 bp
Locus ID:	18575
Cytogenetics:	6 27.65 cM
MW:	69.9 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]