

Product datasheet for **RC233095**

PDE1C (NM_001191059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE1C (NM_001191059) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE1C
Synonyms:	cam-PDE 1C; DFNA74; hCam-3; Hcam3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC233095 representing NM_001191059
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGTCGCCAACCAAGGAGATTGAAGAATTTGAGAGCAACTCTCTGAAATACCTGCAACCGGAACAGA
TCGAGAAAATCTGGCTTCGGCTCCGCGGGCTGAGGAAATATAAGAAAACGTCCCAGAGATTACGGTCTTT
GGTCAAACAATTAGAGAGAGGGGAAGCTTCAGTGGTAGATCTTAAGAAAGATTTGGAATATGCAGCCACA
GTGCTTGAATCTGTGTATATTGATGAAACAAGGAGACTCCTGGATACAGAGGATGAGCTCAGTGACATTC
AGTCAGATGCTGTGCCTTCTGAGGTCCGAGACTGGCTGGCCTCCACCTTCACGCGGCAGATGGGGATGAT
GCTCAGGAGGAGCGACGAGAAGCCCGTTCAAGAGCATCGTTCACGCAGTGCAGGCTGGGATATTTGTG
GAGAGAATGTATAGACGGACATCAAACATGGTTGGACTGAGCTATCCACCAGCTGTTATTGAGGCATTAA
AGGATGTGGACAAGTGGTCTTTGACGCTTTTTCCCTCAATGAGGCCAGTGGGGATCATGCACTGAAATT
TATTTTCTATGAACTACTCACACGTTATGATCTGATCAGCCGTTTCAAGATCCCCATTTCTGCATTGTCT
TCAATTTGTGGAGGCCCTGGAAGTGGGATACAGCAAGCACAAAAATCCTTACCATAACTTAATGCACGCTG
CCGATGTTACACAGACAGTGCATTACCTCCTCTATAAGACAGGAGTGGCGAACTGGCTGCAGGAGCTGGA
GATCTTTGCTATAATCTTCTCAGCTGCCATCCATGACTACGAGCATACCGGAACCAACAATTTCCAC
ATTCAGACTCGGTCTGATCCAGCTATTCTGTATAATGACAGATCTGTACTGGAGAATCACCATTTAAGTG
CAGCTTATCGCCTTCTGCAAGATGACGAGGAAATGAATATTTTGATTAACCTCTCAAAGGATGACTGGAG
GGAGTTTCAACCTTGGTAATTGAAATGGTGATGGCCACAGATATGTCTTGTCACTTCCAACAAATCAA
GCAATGAAGACTGCTCTGCAGCAGCCAGAAGCCATTGAAAAGCCAAAAGCCTTATCCCTTATGCTGCATA
CAGCAGATATTAGCCATCCAGCAAAAAGCATGGGACCTCCATCATCGCTGGACAATGTCACCTCTGGAGGA
GTTCTTACAGACAGGGTGACAGAGAAGCAGAGCTGGGGCTGCCTTTTTCTCCTCTGTGTGACCGAAAAGTCC
ACTATGGTTGCTCAGTCAACAAGTAGGTTTCATTGATTTTATCGTGAACCCACCTTCACTGTGCTTACGG
ACATGACCGAGAAGATTGTGAGTCCATTAATCGATGAAACCTCTCAAACCTGGTGGACAGGACAGAGGCG
TTCGAGTTTGAATAGCATCAGCTCGTCAGATGCCAAGCGATCAGGTGTCAAGACCTCTGGTTCAGAGGGA
AGTGCCCCGATCAACAATCTGTCATCTCCGTTGACTATAAGAGCTTTAAAGCTACTTGGACGGAAGTGG
TGCACATCAATCGGGAGAGATGGAGGGCAAGGTACCCAAAGAGGAGAAGGCCAAGAAGGAAGCAGAGGA
AAAGGCTCGCCTGGCCGAGAGGAGCAGCAAAAAGGAAATGGAAGCCAAAAGCCAGGCTGAAGAAGGCGCA
TCTGGCAAAGCTGAGAAAAGACGTCTGGAGAACTAAGAATCAAGTCAATGGAACACGGGCAAACAAA
GTGACAACCCCTGTGGGAAAAACTCCAAAGCCGAGAAGTCAATCAGGAGAACAGCAACAGAATGGTGA
CAAGATGGTAAAAATAAGACAGACAAGAAGGATCACTCTAACATCGGAAATGATTCAAAGAAAACAGAT
GGCAGAAAACAGCGTTCTCACGGCTCACAGCCCCAAGCACCAGCTCCACGTGTGCGCTTACGTTGCCAG
TCATCAAGCCTCCTTTGCGTCAATTTAAACGCCCTGCTTACGCATCTAGCTCCTATGCACCTCAGTCTC
AAAGAAAACCTGATGAGCATCCTGCAAGGTACAAGATGCTGGATCAGAGGATCAAATGAAAAAGATTTCAG
AACATCTCACATAACTGGAACAGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233095 representing NM_001191059
 Red=Cloning site Green=Tags(s)

MESPTKEIEEFESNSLKYLQPEQIEKIWLRLRGLRKYKKTSQLRSLVKQLERGEASVVDLKKNLEYAAT
 VLESVYIDETRRLLDTEDELSDIQSDAVPSEVRDWLASTFTRQMGMLRRSDEKPRFKSIVHAVQAGIFV
 ERMYYRRTSNMVGLSYPPAVIEALKDVKWSFDVFSLNEASGDHALKFIYELLTRYDLISRFKIPISALV
 SFVEALEVGYSKHKNPYHNLMAADVTQTVHYLLYKTGVANWLTELEIFAIIFSAAIHDIYEHTGTTNNFH
 IQTRSDPAILYNDRSVLENHHL SAAAYRLQDDEEMNILINLSKDDWREFRTLVIEMVMATDMSCHFQQIK
 AMKTALQQPEAIEKPKALSLMLHTADISHPAKAWDLHHRWTMSLLEEFFRQGDREAEGLPFSPLCDRKS
 TMVAQSQVGFIDFIVEPTFTVL TDMTEKIVSPLIDETSQTGGTGQRRSSLNSISSDAKRSGVKTSGSEG
 SAPINNSVISVDYKSFKATWTEVVHINRERWRKVPKEEKAKKEAEKARLAAEEQKEMEAKSQAEEGA
 SGKAEKKTSGETKNQVNGTRANKSDNPRGKNSKAEKSSGEQQQNGDFKDGKNKTDKDKHSNIGNDSKKT
 GTKQRSHGSPAPSTSSTCRLTLPVIKPLRHFKRPAYASSYAPSVSKTDEHPARYKMLDQRIKMKKIQ
 NISHNWRK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

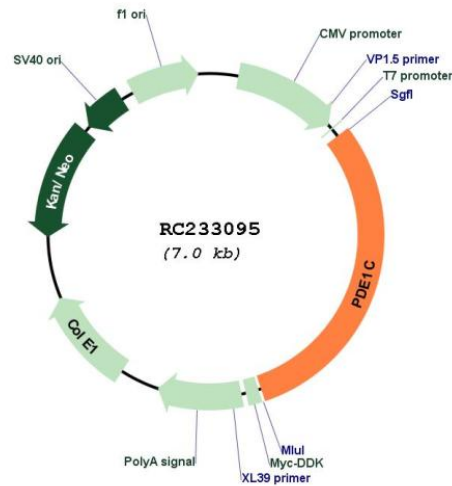
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001191059

ORF Size: 2127 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_001191059.3](#)

RefSeq Size: 2888 bp

RefSeq ORF: 2130 bp

Locus ID: 5137
UniProt ID: [Q14123](#)
Cytogenetics: 7p14.3
Protein Families: Druggable Genome
Protein Pathways: Calcium signaling pathway, Olfactory transduction, Progesterone-mediated oocyte maturation, Purine metabolism
MW: 81.2 kDa

Gene Summary: This gene encodes an enzyme that belongs to the 3'5'-cyclic nucleotide phosphodiesterase family. Members of this family catalyze hydrolysis of the cyclic nucleotides, cyclic adenosine monophosphate and cyclic guanosine monophosphate, to the corresponding nucleoside 5'-monophosphates. The enzyme encoded by this gene regulates proliferation and migration of vascular smooth muscle cells, and neointimal hyperplasia. This enzyme also plays a role in pathological vascular remodeling by regulating the stability of growth factor receptors, such as PDGF-receptor-beta. [provided by RefSeq, Jul 2016]