

## Product datasheet for **RC233033**

### **PDE1C (NM\_001191056) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE1C (NM_001191056) 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:

>RC233033 representing NM\_001191056  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGAGTCGCCAACCAAGGAGATTGAAGAATTTGAGAGCAACTCTCTGAAATACCTGCAACCGGAACAGA  
TCGAGAAAATCTGGCTTCGGCTCCGCGGCTGAGGAAATATAAGAAAACGTCCCAGAGATTACGGTCTTT  
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GTGCTTGAATCTGTGTATATTGATGAAACAAGGAGACTCCTGGATACAGAGGATGAGCTCAGTGACATTC  
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AGGATGTGGACAAGTGGTCTTTGACGCTTTTTCCCTCAATGAGGCCAGTGGGGATCATGCACTGAAATT  
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TCAATTTGTGGAGGCCCTGGAAGTGGGATACAGCAAGCACAAAAATCCTTACCATAACTTAATGCACGCTG  
CCGATGTTACACAGACAGTGCATTACCTCCTCTATAAGACAGGAGTGGCGAACTGGCTGACGGAGCTGGA  
GATCTTTGCTATAATCTTCTCAGCTGCCATCCATGACTACGAGCATACCGGAACCAACAATTTCCAC  
ATTCAGACTCGGTCTGATCCAGCTATTCTGTATAATGACAGATCTGTACTGGAGAATCACCATTTAAGTG  
CAGCTTATCGCCTTCTGCAAGATGACGAGGAAATGAATATTTTGATTAACCTCTCAAAGGATGACTGGAG  
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TCTGGCAAAGCTGAGAAAAGACGTCTGGAGAACTAAGAATCAAGTCAATGGAACACGGGCAAACAAA  
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CAAAGATGGTAAAAATAAGACAGACAAGAAGGATCACTCTAACATCGGAAATGATTCAAAGAAAACAGAT  
GATTCACAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233033 representing NM\_001191056  
 Red=Cloning site Green=Tags(s)

MESPTKEIEEFESNSLKYLQPEQIEKIWLRLRGLRKYKKTSQLRSLVKQLERGEASVVDLKKNLEYAAT  
 VLESVYIDETRRLLDTEDELSDIQSDAVPSEVRDWLASTFTRQMGMLRRSDEKPRFKSIVHAVQAGIFV  
 ERMYYRRTSNMVGLSYPPAVIEALKDVKWSFDVFSLNEASGDHALKFIYELLTRYDLISRFKIPISALV  
 SFVEALEVGYSKHKNPYHNLMAADVTQTVHYLLYKTGVANWLTELEIFAIIFSAAIHDIYEHTGTTNNFH  
 IQTRSDPAILYNDRSVLENHHL SAAAYRLQDDEEMNILINLSKDDWREFRTLVIEMVMATDMSCHFQQIK  
 AMKTALQPEAIEKPKALSLMLHTADISHPAKAWDLHHRWTMSLLEEFFRQGDREAELGLPFSPLCDRKS  
 TMVAQSQVGFIDFIVEPTFTVL TDMTEKIVSPLIDETSQTGGTGQRRSSLNSISSDAKRSVKTSVSGSEG  
 SAPINNSVISVDYKSFKATWTEVVHINRERWRKVPKEEKAKKEAEEKARLAAEEQQKEMEAKSQAEEGA  
 SGKAEKKTSGETKNQVNGTRANKSDNPRGKNSKAEKSSGEQQQNGDFKDGKNTDKKDHNSI GNDSSKKT  
 DSQE

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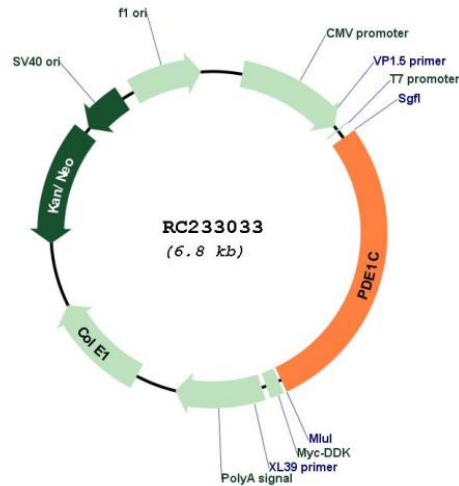
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



Plasmid Map:



ACCN: NM\_001191056

ORF Size: 1902 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\\_001191056.3](#)

RefSeq Size:	2979 bp
RefSeq ORF:	1905 bp
Locus ID:	5137
UniProt ID:	<a href="#">Q14123</a>
Cytogenetics:	7p14.3
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Olfactory transduction, Progesterone-mediated oocyte maturation, Purine metabolism
MW:	72.7 kDa
Gene Summary:	<p>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]</p>