

## Product datasheet for **RC231408**

### **PDE1C (NM\_001191058) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE1C (NM_001191058) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE1C
Synonyms:	cam-PDE 1C; DFNA74; hCam-3; Hcam3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC231408 representing NM\_001191058  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACGGACGCCGCAACAGGAAGGAGGGCTTCAAAAAATGCCGGAGCGCCACTTTCAGCATCGATGGCT  
ACAGCTTCACCATAGTTGCAAATGAAGCTGGAGACAAGAATGCCAGACCACTGGCCCGCTTCTCTCGGT  
TAAGTCACAGAAGTGTCTGTGGAAGTCCCTCATCGATGGGCTCACAGGAATGTCAAGGAGAAGCCAAGG  
CCAACAATTGTCCATGACCCCTCGACCCCGAGGAGATCCTAGCTGATGAATTGCCACAGCTGGATAGCT  
CAGAAGTCTTGGTGAAGACATCCTTCAGATTACGGTCTTTGGTCAACAATTAGAGAGAGGGGAAGCTTC  
AGTGGTAGATCTAAGAAGAATTTGGAATATGCAGCCACAGTGCCTGAATCTGTGTATATTGATGAAACA  
AGGAGACTCCTGGATACAGAGGATGAGCTCAGTGACATTCAGTCAGATGCTGTGCCTTCTGAGGTCGGAG  
ACTGGCTGGCCTCCACCTTCACGCGCAGATGGGGATGATGCTCAGGAGGAGCGACGAGAAGCCCCGGTT  
CAAGAGCATCGTTCACGCAGTGCAGGCTGGGATATTTGTGGAGAGAATGTATAGACGGACATCAAACATG  
GTTGGACTGAGCTATCCACCAGCTGTTATTGAGGCATTAAGGATGTGGACAAGTGGTCTTTGACGTCT  
TTTCCCTCAATGAGGCCAGTGGGGATCATGCACTGAAATTTATTTTCTATGAACTACTCACACGTTATGA  
TCTGATCAGCCGTTTCAAGATCCCCATTTCTGCACTTGTCTCATTGTGGAGGCCCTGGAAGTGGGATAC  
AGCAAGCACAAAAATCCTTACCATAACTTAATGCACGCTGCCGATGTTACACAGACAGTGCATTACCTCC  
TCTATAAGACAGGAGTGGCGAAGTGGCTGACGGAGCTGGAGATCTTTGCTATAATCTTCTCAGTGCCAT  
CCATGACTACGAGCATACCGGAACCACCAACAATTTCCACATTCAGACTCGGTCTGATCCAGCTATTCTG  
TATAATGACAGATCTGTACTGGAGAATCACCATTTAAGTGCAGCTTATCGCCTTCTGCAAGATGACGAGG  
AAATGAATTTTTGATTAACCTCTCAAAGGATGACTGGAGGGAGTTTCGAACCTTGGTAAATGAAATGGT  
GATGGCCACAGATATGTCTTGTCACTTCCAACAATCAAAGCAATGAAGACTGCTCTGCAGCAGCCAGAA  
GCCATTGAAAAGCCAAAAGCCTTATCCCTTATGCTGCATACAGCAGATATTAGCCATCCAGCAAAAAGCAT  
GGGACCTCCATCATCGCTGGACAATGCACTCCTGGAGGAGTTCTTCAGACAGGGTGACAGAGAAGCAGA  
GCTGGGGCTGCCTTTTTCTCTGTGTGACCGAAAGTCCACTATGGTTGCTCAGTCACAAGTAGGTTTC  
ATTGATTCATCGTGAACCCACCTTCACTGTGCTTACGGACATGACCGAGAAGATTGTGAGTCCATTAA  
TCGATGAAACCTCTCAAAGTGGTGGACAGGACAGAGGCGTTCGAGTTTGAATAGCATCAGCTCGTCAGA  
TGCCAAGCGATCAGGTGTCAAGACCTCTGGTTCAGAGGGAAGTGCCTCGATCAACAATTCTGTCATCTCC  
GTTGACTATAAGAGCTTTAAAGCTACTTGGACGGAAGTGGTGCACATCAATCGGGAGAGATGGAGGGCCA  
AGGTACCCAAAGAGGAGAAGGCCAAGAAGGAAGCAGAGGAAAAGGCTCGCCTGGCCGACAGAGGAGCAGCA  
AAAGGAAATGGAAGCCAAAAGCCAGGCTGAAGAAGGCGCATCTGGCAAAGCTGAGAAAAAGCAGTCTGGA  
GAAACTAAGAATCAAGTCAATGGAACACGGGCAAAACAAAAGTACAACCTCGTGGGAAAAACTCCAAAAG  
CCGAGAAGTCAACAGGAGAACAGCAACAGAATGGTACTTCAAAGATGGTAAAAATAAGACAGACAAGAA  
GGATCACTCTAACATCGGAAATGATTCAAAGAAAAACAGATGGCACAAAACAGCGTTCTCACGGCTCACCA  
GCCCAAGCACCAGCTCCACGTGTCGCTTACGTTGCCAGTCATCAAGCCTCCTTTGCGTCATTTTAAAC  
GCCCTGCTTACGCATCTAGCTCCTATGCACCTTCACTCTCAAAGAAAAGTATGATGAGCATCCTGCAAGGTA  
CAAGATGCTGGATCAGAGGATCAAAATGAAAAGATTGAGAATCTCACATAACTGGAACAGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231408 representing NM\_001191058  
 Red=Cloning site Green=Tags(s)

MTDAGNRKEGFKKCRSATFSIDGYSFTIVANEAGDKNARPLARFSRSKSNCLWNSLIDGLTGNVKEKPR  
 PTIVHDPRPPEEILADELPQLDSSEVLVKTFSRLRSLVKQLERGEASVVDLKNLEAYAATVLESVYIDET  
 RRLDTEDELSDIQSDAVPSEVRDLASTFTRQGMMLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSNM  
 VGLSYPPAVIEALKDVKWSFDVFSLNEASGDHALKFIFYELLTRYDLISRFKIPIISALVSFVEALEVGY  
 SKHKNPYHNLMAADVTQTVHYLLYKTVANWLTELEIFAIIFSAAIHDYEHTGTTNNFHIQTRSDPAIL  
 YNDRSVLENHHL SAAYRLLQDDEMNILINL SKDDWREFRTLVIEMMATDMSCHFQQIKAMKTALQQPE  
 AIEKPKALSLMLHTADISHPAKAWDLHHRWTMSLLEEFFRQGDREAELGLPFSPLCDRKSTMVAQSQVGF  
 IDFIVEPTFTVL TDMTEKIVSPL IDETSQTGGTGQRRSSLNSISSDAKRSGVKTSGSEGSAPINNSVIS  
 VDYKSFKATWTEVVHINRERWRKVPKEEKAKKEAEKARLAAEEQQKEMEAKSQAEEGASGKAEEKTSG  
 ETKNQVNGTRANKSDNPRGKNSKAEKSSGEQQQNGDFKDGKNKTDKDHNSIGNDSKKTDTGKQRSHGSP  
 APSTSSTCRLTLPVIKPLRHFKRPAAYASSYAPSVSKTDEHPARYKMLDQRIKMKKIQNI SHNWNRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001191058

**ORF Size:** 2307 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\\_001191058.1](#), [NP\\_001177987.1](#)

**RefSeq ORF:** 2310 bp

**Locus ID:** 5137

**UniProt ID:** [Q14123](#)

**Cytogenetics:** 7p14.3

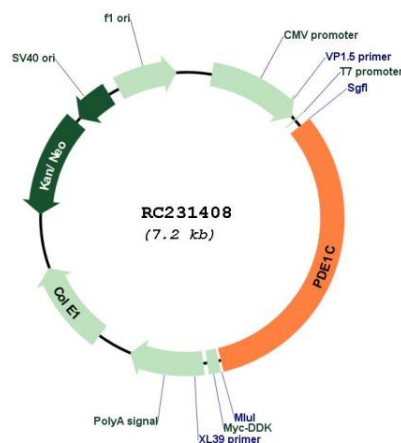
**Protein Families:** Druggable Genome

**Protein Pathways:** Calcium signaling pathway, Olfactory transduction, Progesterone-mediated oocyte maturation, Purine metabolism

**MW:** 87.4 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]

### Product images:



Circular map for RC231408