

Product datasheet for **SC316553**

PDE4C (NM_001098819) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4C (NM_001098819) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE4C
Synonyms:	DPDE1; PDE21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

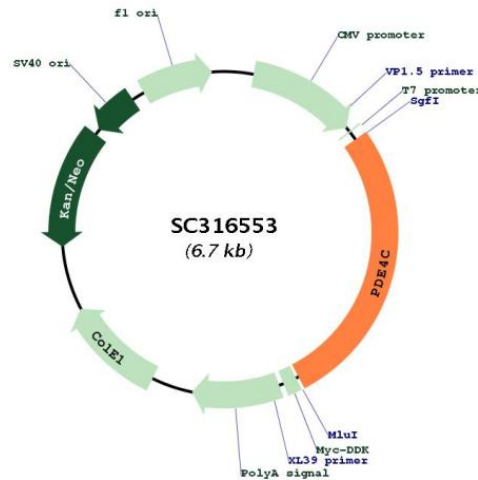
Fully Sequenced ORF: >SC316553 representing NM_001098819.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGGCTCCAGTCCCACAGCCAGCGCGCGAGTCCTTCTGTACCGCTCAGATAGCGACTATGAA
CTCTCGCCCAAGGCCATGTCTCGAACTCCTCTGTGGCCAGCGACCTACATGGAGAGGACATGATTGTG
ACGCCCTTTGCCAGGTCTGGCCAGTCTGCGGACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAG
CAATGCCTAGGAGCAGCCAAGCAGGGACCCGTCGAAACCTTTCATCCAGCAATCAGTCCCTCCTGCA
GAGGACACGGGGCAGAAGCTGGCATTGGAGACGCTAGACGAGCTGGACTGGTGCCTGGATCAGTTGGAG
ACGCTGCAGACCCGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAGCGGATCCTGAACCGGGAG
TTGACCCACCTGTCCGAAACCAGCCGCTCCGGAAACCAGGTGTCCGAGTACATCTCCCGACCTTCTG
GACCAGCAGACCGAGGTGGAGCTGCCAAGGTGACCGCTGAGGAGGCCCCACAGCCCATGTCCCGGATC
AGTGGCCTACATGGGCTCTGCCACAGTCCAGCCTCTCCTCAGCCACTGTCCACGCTTTGGGGTCCAG
ACTGACCAGGAGGAGCAACTGGCCAAGGAGCTAGAAGACACCAACAAGTGGGGACTTGATGTGTTCAAG
GTGGCGGAGCTAAGTGGGAACCGGCCCTCACAGCTATCATATTCAGCATTTTTTCAGGAGCGGGACCTG
CTGAAGACATTCCAGATCCCAGCAGACACACTGGCCACCTACCTGCTGATGCTGGAAGGTCACTACCAC
GCCAATGTGGCCTACCACAACAGCCTACATGCCGCCGACGTGGCCAGTCCACGCATGTGCTGCTGGCT
ACGCCCGCCCTCGAGGCTGTGTTTACAGACTTGGAAATCCTGGCTGCCCTCTTTGCAAGCGCCATCCAC
GACGTGGACCATCCTGGGGTCTCCAACCAGTTTCTGATTAACACCAACTCAGAGCTGGCGCTTATGTAC
AACGACGCCTCGGTGCTGGAGAACCATCACCTGGCTGTGGGCTTCAAGCTGCTGCAGGCAGAGAAGTGC
GATATCTTCCAGAACCTCAGCGCCAAGCAGCGACTGAGTCTGCGCAGGATGGTCATTGACATGGTGTG
GCCACAGACATGTCCAACACATGAACCTCCTGGCCGACCTCAAGACCATGGTGGAGACCAAGAAGGTG
ACAAGCCTCGGTGTCTCCTCCTGGACAACCTATTCCGACCGAATCCAGGTCTTGCAGAACCTGGTGAC
TGTGCTGATCTGAGCAACCCACCAAGCCGCTGCCCTGTACCGCCAGTGACGGACCGCATCATGGCC
GAGTTCTTCCAGCAGGGAGACCGGAGCGTGTGAGTGGGCTGGACATCAGTCCCATGTGTGACAAGCAT
ACGGCCTCAGTGGAGAAGTCCCAGGTGGGTTTCATTGACTACATTGCTCACCCACTGTGGGAGACTTGG
GCTGACCTGGTCCACCCAGATGCACAGGACCTGCTGGACACGCTGGAGGACAATCGAGAGTGGTACCAG
AGCAAGATCCCCGAAGTCCCTCAGACCTACCAACCCCGAGCGGGACGGGCCTGACAGATTCCAGTTT
GAACTGACTCTGGAGGAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGGAGGGGGAAGAGACAGCTTA
GCCAAGAGGCCCTTGAGTTGCCTGACACTGAACTCCTGTCCCTGAAGCCGGCCAGACCTGGGGAC
TTACCCCTCGACAACCAGAGGACTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001098819

Insert Size: 1821 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001098819.2](#)

RefSeq Size: 5126 bp

RefSeq ORF: 1821 bp

Locus ID: 5143

UniProt ID: [Q08493](#)

Cytogenetics: 19p13.11

Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	67.8 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE4 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>