

## Product datasheet for **SC300152**

### **PDE4C (NM\_000923) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE4C (NM_000923) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDE4C
Synonyms:	DPDE1; PDE21
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```

>OriGene ORF sequence for NM_000923 edited
ATGGAGAACCTGGGGTCGGCGAAGGGCAGAGGCTTGCAGCAGGTTGAGTCGCTCTCGC
GGCCGCCACAGCATGACCAGAGCCCCGAAGCACCTGTGGCGGCAACCCCGGCCCCATC
CGCATCCAACAGCGCTTCTATTCGGATCCGGACAAGTCCGCGGGCTGCCGCGAGAGGGAC
CTGAGCCCGCGGGCCGAGCTCAGGAAGTCGCGGCTCTCTGGCCCGTTTCTCTGCAGG
CGCTTTGACCTGAAAAATGGGCTCTCGTGTGGGAGGAGGGCCCTGGACCTCAGTCCAGC
CCTGGCCTGGGCCGGATTATGCAGGCTCCAGTCCCGCACAGCCAGCGGGCGGAGTCCCTT
CTGTACCGCTCAGATAGCGACTATGAACTCTCGCCCAAGGCCATGTCTCGGAACTCCTCT
GTGGCCAGCGACCTACATGGAGAGGACATGATTGTGACGCCCTTTGCCAGGTCCTGGCC
AGTCTGCGGACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCA
GCCAAGCAGGGACCCGTCGAAACCCCTTCCATCCAGCAATCAGCTCCCTCTGCAGAGGAC
ACGGGGCAGAAGCTGGCATTGGAGACGCTAGACGAGCTGGACTGGTGCCTGGATCAGTTG
GAGACGCTGCAGACCCGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAGCGGATC
CTGAACCGGGAGTTGACCACCTGTCCGAAACCAGCCGCTCCGGAAACCAGGTGTCCGAG
TACATCTCCCGGACCTTCTGGACCAGCAGACCGAGGTGGAGCTGCCAAGGTGACCGCT
GAGGAGGCCCCACAGCCATGTCCCGGATCAGTGGCCTACATGGGCTCTGCCACAGTGCC
AGCCTCTCCTCAGCCACTGTCCCACGCTTTGGGGTCCAGACTGACCAGGAGGAGCAACTG
GCCAAGGAGCTAGAAGACACCAACAAGTGGGGACTTGATGTGTTCAAGGTGGCGGAGCTA
AGTGGGAACCGGCCCTCACAGCTATCATATTCAGCATTTTTTCAGGAGCGGGACCTGCTG
AAGACATTCCAGATCCCAGCAGACACACTGGCCACCTACCTGCTGATGCTGGAAGGTCAC
TACCACGCCAATGTGGCCTACCACAACAGCCTACATGCCCGCCGACGTGGCCAGTCCACG
CATGTGCTGTGGCTACGCCCCCCTCGAGGCTGTGTTACAGACTTGAAATCCTGGCT
GCCCTCTTTGCAAGCGCCATCCACGACGTGGACCATCCTGGGGTCTCCAACCAAGTTTCTG
ATTAACACCAACTCAGAGCTGGCGCTTATGTACAACGACGCTCGGTGCTGGAGAACCAT
CACCTGGCTGTGGCTTCAAGCTGCTGCAGGCAGAGAAGTGCATATCTTCCAGAACCTC
AGCGCCAAGCAGCGACTGAGTCTGCGCAGGATGGTCATTGACATGGTGTGGCCACAGAC
ATGTCCAAACACATGAACCTCCTGGCCGACCTCAAGACCATGGTGGAGACCAAGAAGGTG
ACAAGCCTCGGTGTCTCCTCCTGGACAATAATCCGACCGAATCCAGGTCTTGCAGAAC
CTGGTGCCTGTGCTGATCTGAGCAACCCACCAAGCCGCTGCCCTGTACCGCCAGTGG
ACGGACCGCATCATGGCCGAGTTCTTCCAGCAGGGAGACCGCGAGCGTGAGTCGGGCCTG
GACATCAGTCCCATGTGTGACAAGCATAACGGCCTCAGTGGAGAAGTCCCAGGTGGGTTTC
ATTGACTACATTGCTCACCCACTGTGGGAGACTTGGGCTGACCTGGTCCACCCAGATGCA
CAGGACCTGCTGGACACGCTGGAGGACAATCGAGAGTGGTACCAGAGCAAGATCCCCCGA
AGTCCCTCAGACCTCACCAACCCCGAGCGGGACGGCCTGACAGATTCCAGTTTGAAGTGT
ACTCTGGAGGAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGGAGGGGGAAGAGACAGCT
TTAGCCAAAGAGGCCTTGGAGTTGCCTGACACTGAACTCCTGTCCCCTGAAGCCGGCCCA
GACCCTGGGGACTTACCCTCGACAACCAGAGGACTTAG
    
```

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000923 unedited GTCACATATTTGTATACCACTACTATAGGCGGCCGCAATTCGCACGAGGCAGGACTC CGCAGTGGTGTCTGGGAGTTGGTGGATTCTGGCTTGGCCCTGTGAGCCCCCTTGGTGG TGGTATCATCCGGAGAGGCTTCTCGGGTACCCATTGCTGCCATCGTGCCGAGCCGCCT TGTGTTGCTGGAGAGTTCGAGCCAGTACCCATGTGGTGTTCACCATTGAGGCTTAAGG GACAGAGAAAAGACAGCGTGGTCCCAGATAGCACCATCTGGGCATCGACAGCTCCTCGGT GTCGGCCCCACCTTGAGCCCCAGTTCACCTTCTACCGCTTCAGCACCTCCGGCGCGGAC AGCTCCTCGTGTGCGCTCCACTCCCGGCCCTGGGCCGGACCCGGGAGCAGACGCTCCTC GGCGCCCGCTCACGGGGACGAGTCTGCTCCCTGCTATCCAGACCCCTTCTCTGGCGC ATGGAGAACCTGGGGTTCGGCGAAGGGGAGAGGCTTGCAGCAGTTGAGTCGCTCTCGC GGCCGCCACAGCATGACCAGAGCCCGAAGCACCTGTGGCGGGAACCCCGCGCCCCATC CGCATCCAACAGCGTCTTATTCCGATCCGCTTGAACCTGTTGGAGGCCATCTCCCCAC CGAGTGCCCGGTCTGCAACTTCTCCACTGATCCCGCCCCAGTCCAACCTGTTTAGCG TCCCCATGCCAGTCTGCCCCCTGTCCCCTGCAAAGGGAACCTATGGTTGGAGAAGGG GTTCCCCGGTCCCTGGCTGGGCGCTCCCTAAAATCGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000923
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_000923.2</a></u> , <u><a href="#">NP_000914.2</a></u>
<b>RefSeq Size:</b>	2739 bp
<b>RefSeq ORF:</b>	2139 bp
<b>Locus ID:</b>	5143
<b>UniProt ID:</b>	<u><a href="#">Q08493</a></u>
<b>Cytogenetics:</b>	19p13.11
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Progesterone-mediated oocyte maturation, Purine metabolism

**Gene Summary:**

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]

Transcript Variant: This variant (1) encodes the longest 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.