

## Product datasheet for **RG214274**

### **PDE4C (NM\_001098818) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDE4C (NM_001098818) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE4C
Synonyms:	DPDE1; PDE21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG214274 representing NM\_001098818  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGACAGGGCCCCCGCGCCCGCCCGGTCCCGGGCCCGGCTCCCTCGGGGATCCCCGCGCGGCTCCC  
 CCGGGCTCTTCAGGAAGCTTTTGGTGAATCAGAGCATCCGCTGCAGCGCGCTTACGGTGGCCATCC  
 GCTGTGCTTTGACCTGGAATGGGCTCTCGTGTGGGAGGAGGGCCCTGGACCCTCAGTCCAGCCCTGGC  
 CTGGGCGGATTATGCAGGCTCCAGTCCCGCACAGCCAGCGCGGAGTCTTCTGTACCCTCAGATA  
 GCGACTATGAACTCTCGCCAAGGCCATGTCTCGAACTCCTGTGGCCAGCGACCTACATGGAGAGGA  
 CATGATTGTGACGCCCTTTCAGGCTCTGGCCAGTCTGCGGACCGTTCGGAGCAACGTGGCGGCCCTT  
 GCCCGCCAGCAATGCCTAGGAGCAGCAAGCAGGGACCCGTGGAAACCTTTCATCCAGCAATCAGTCC  
 CTCTGCAGAGGACACGGGCGAGAAGCTGGCATTGGAGACGCTAGACGAGCTGGACTGGTGCCTGGATCA  
 GTTGGAGACGCTGCAGACCCGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAGCGGATCCTGAAC  
 CGGGAGTTGACCCACCTGTCCGAAACCAGCCGCTCCGGGAACCAGGTGTCCGAGTACATCTCCCGGACCT  
 TCTGGACCAGCAGACCGAGGTGGAGCTGCCAAAGGTGACCGCTGAGGAGCCCCACAGCCCATGTCCC  
 GATCAGTGGCCTACATGGGCTCTGCCACAGTGCAGCCTCTCCTCAGCCACTGTCCCACGCTTTGGGGT  
 CAGACTGACCAGGAGGCAACTGGCAAGGAGCTAGAAGACCAACAAGTGGGGACTTGATGTGTTCA  
 AGGTGGCGGAGCTAAGTGGGAACCGGCCCTCACAGCTATCATATTCAGCATTTTTCAGGAGCGGGACCT  
 GCTGAAGACATTCAGATCCCAGCAGACACTGGCCACTACCTGCTGATGCTGGAAGTCACTACCAC  
 GCCAATGTGGCCTACCACAACAGCCTACATGCCCGCAGTGGCCAGTCCACGCATGTGCTGTGGCTA  
 CGCCCGCCCTCGAGGCTGTGTTACAGACTTGGAAATCCTGGCTGCCCTTTTGAAGCGCCATCCACGA  
 CGTGGACCATCCTGGGGTCTCAACCAGTTTCTGATTAACACCAACTCAGAGCTGGCGCTTATGTACAAC  
 GACGCCTCGGTGCTGGAGAACCATCACCTGGCTGTGGGCTTCAAGCTGCTGCAGGAGAGAACTGCGATA  
 TCTTCCAGAACCTCAGCGCCAAGCAGCGACTGAGTCTGCGCAGGATGGTCAATGACATGGTGTGGCCAC  
 AGACATGTCCAAACACATGAACCTCCTGGCCGACCTCAAGACCATGGTGGAGACCAAGAAGTGACAAGC  
 CTCGGTGTCTCCTCCTGGACAATTTCCGACCGAATCCAGGTCTTGCAGAACCTGGTGCAGTGTGCTG  
 ATCTGAGCAACCCACCAAGCCGCTGCCCTGTACCGCCAGTGGACGACCGCATCATGGCCGAGTTCTT  
 CCAGCAGGAGACCGCGAGCGTGTGAGTGGGCTGGACATCAGTCCATGTGTGACAAGCATAACGGCCTCA  
 GTGGAGAAGTCCCAGGTGGGTTTCAATTGACTACATTGCTCACCCACTGTGGGAGACTTGGGCTGACCTGG  
 TCCACCCAGATGCACAGGACCTGTGGACAGCTGGAGGACAATCGAGAGTGGTACCAGAGCAAGATCCC  
 CCGAAGTCCCTCAGACCTCACCAACCCGAGCGGGACGGGCTGACAGATTCCAGTTTGAAGTACTCTG  
 GAGGAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGGAGGGGAAGAGACAGCTTTAGCCAAAGAGGCT  
 TGGAGTTGCCTGACACTGAACTCCTGTCCCCTGAAGCCGGCCAGACCCTGGGGACTTACCCCTCGACAA  
 CCAGAGGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG214274 representing NM\_001098818  
Red=Cloning site Green=Tags(s)

```

MQGPPAPAPVPGPGSPRGSPRGSPGLFRKLLVNQSIQLRQRFVAHPLCFDLENGLSCGRRALDPQSSPG
LGRIMQAPVPHSQRRSEFLYRSDSDYELSPKAMSRNSSVASDLHGEMIVTPFAQVLAASLRTVRSNVAAL
ARQQCLGAAKQGPVGNPSSSNQLPPAEDTGQKLALETLDLDELWCLDQLETLQTRHSVGMASNKFKRILN
RELTHLSETSRSGNQVSEYISRTFLDQQTEVELPKVTAEEAPQPMRSISGLHGLCHSASLSSATVPRFGV
QTDQEEQLAKELEDTNKWGLDVFKVAELSGNRPLTAIIFSIQERDLLKTFQIPADTLATYLLMLEGHYH
ANVAYHNSLHAADVAQSTHVLLATPALEAVFTDLEILAALFASAIHDVDHPGVSNOFLINTNSELALMYN
DASVLENHHLAVGFKLLQAENCDFQNLQNLAKQRLSLRRMVIDMVLATDMSKHMNLLADLKTMYETKQVTS
LGVLLLDNYSDRIQVQLNLVHCADLSNPTKPLPLYRQWTDRIAEFFQQGDRERESGLDISPMCDKHTAS
VEKSQVGFIDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSKIPRSPDLTNPERDGPDRFQFELTL
EEAEEEEEEEEEEGETALAKEALELPDELLSPEAGPDPGLPLDNQRT
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001098818

**ORF Size:** 2040 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\\_001098818.4](#)

**RefSeq Size:** 5034 bp

**RefSeq ORF:** 2043 bp

**Locus ID:** 5143

**UniProt ID:** [Q08493](#)

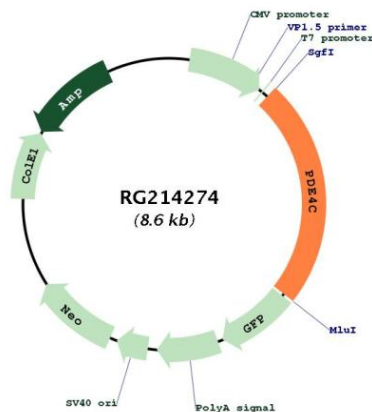
**Cytogenetics:** 19p13.11

**Protein Families:** Druggable Genome

**Protein Pathways:** 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]

## Product images:



Circular map for RG214274