

Product datasheet for **RC231398**

PDE4D (NM_001197218) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4D (NM_001197218) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE4D
Synonyms:	ACRDYS2; DPDE3; HSPDE4D; PDE4DN2; PDE43; STRK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC231398 representing NM_001197218
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAGCAGACAAGCCCGGACACTTTAACAGTACCTGAAGTGGATAATCCGCATTGTCCAAACCCGT
 GGCTGAACGAAGACCTTGTGAAATCCTTGCAGAGAAAACCTGTTGCAGCATGAGAAGTCCAAGACAGCGAG
 GAAATCGGTTTCTCCAAGCTCTCTCCAGTGATCTCTCCGAGAAAATCCCCAGGCTTCTGCGCAGAATG
 CTTCTCAGCAGCAACATCCCAAACAGCGGCGTTTACGGTGGCACATACATGTTTTGATGTGGACAATG
 GCACATCTGCGGGACGGAGTCCCTTGGATCCCATGACCAGCCCAGGATCCGGGCTAATTCTCCAAGCAAA
 TTTTGTCCACAGTCAACGACGGGAGTCTTCTGTATCGATCCGACAGCGATTATGACCTCTCTCCAAAG
 TCTATGTCCCGAACTCCTCCATTGCCAGTGATACACGGAGATGACTTGATTGTGACTCCATTGCTC
 AGGTCTTGCCAGTCTGCGAACTGTACGAAACAACCTTTGCTGCATTAACATAATTTGCAAGATCGAGCACC
 TAGCAAAAGATCACCCATGTGCAACCAACCATCCATCAACAAAGCCACCATAACAGAGGAGGCCTACCAG
 AAAGTGGCCAGCGAGACCTGGAGGAGCTGGACTGGTGTCTGGACCAGCTAGAGACCTACAGACCAGGC
 ACTCCGTCAGTGAGATGGCTCCAAAGTTTAAAAGGATGCTTAATCGGGAGCTCACCCATCTCTCTGA
 AATGAGTCGGTCTGAAAATCAAGTGTGAGAGTTTATATCAAACACATTCTTAGATAAGCAACATGAAGTG
 GAAATTCCTTCTCCAAGTCAAGAGGAAAAGGAGAAAAAGAAAGACCAATGTCTCAGATCAGTGGAGTCA
 AGAAATGATGCACAGCTCTAGTCTGACTAATCAAGTATCCCAAGTGGAGTTAAAAGTGAACAAGA
 AGATGTCTTGCAGGAACTAGAAGATGTGAACAATGGGGTCTTCATGTTTTGAGAAATAGCAGAGTTG
 TCTGGTAACCGGCCCTTGACTGTTATCATGCACACCATTTTTCAGGAACGGGATTTAAAAACATTTA
 AAATTCAGTAGATACTTTAATTACATATCTTATGACTCTCGAAGACCATTACCATGCTGATGTGGCCTA
 TCACAACAATATCCATGCTGCAGATGTTGTCAGTCTACTCATGTGCTATTATCTACACCTGCTTTGGAG
 GCTGTGTTTACAGATTTGGAGATTCTTGCAGCAATTTTTGCCAGTGCAATACATGATGTAGATCATCCTG
 GTGTGTCCAATCAATTTCTGATCAATACAACTCTGAACCTGCCTTGATGTACAATGATTCTCAGTCTT
 AGAGAACCATCATTTGGCTGTGGGCTTTAAATTGCTTCAGGAAGAAAAGTGTGACATTTTCCAGAATTTG
 ACCAAAAACAAAGACAATCTTTAAGGAAAATGGTCATTGACATCGTACTTGCAACAGATATGTCAAAC
 ACATGAATCTACTGGCTGATTTGAAGACTATGGTTGAACTAAGAAAGTGACAAGCTCTGGAGTTCTTCT
 TCTTGATAATTATCCGATAGGATTGAGTTCTCAGAATATGGTGCAGTGTGCAGATCTGAGCAACCCA
 ACAAGCCTCTCCAGCTGTACCCAGTGGACGGACCGGATAATGGAGGAGTTCTTCCGCCAAGGAGACC
 GAGAGAGGGAACGTGGCATGGAGATAAGCCCCATGTGTGACAAGCACAATGCTTCCGTGGAAAAATCACA
 GGTGGGCTTCATAGACTATATTGTTATCCCTCTGGGAGACATGGGCAGACCTCGTCCACCCTGACGCC
 CAGGATATTTGGACACTTTGGAGGACAATCGTGAATGGTACCAGAGCACAATCCCTCAGAGCCCCTCTC
 CTGCACCTGATGACCCAGAGGAGGGCCGGCAGGGTCAAAGTGAAGAAATCCAGTTTGAACAACTTTAGA
 GGAAGATGGTGTGAGTGCAGACCGGAAAAGGACAGTGGCAGTCAAGTGAAGAAGACACTAGCTGCAGTGAC
 TCCAAGACTCTTTGACTCAAGACTCAGAGTCTACTGAAATCCCTTGTGAACAGGTTGAAGAGGAGG
 CAGTAGGGGAAGAAGAGGAAAAGCCAGCCTGAAGCCTGTGTATAGATGATCGTTCTCTGACACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231398 representing NM_001197218
Red=Cloning site Green=Tags(s)

MAQQTSPDRTLTVPEVDNPHCPNPWLNEDLVKSLRENLLQHEKSKTARKSVSPKLSPVISPRNSPRLRRM
 LLSNIPKQRRFTVAHTCFDVDNGTSAGRSPLDPMTSPGSGILIQANFVHSQRRESFLYRSDSDYDLSPK
 SMSRNSSIASDIHGDDLIVTPFAQVLA SLRTVRNNFAALTNLQDRAPSKRSPMCNQPSINKATITEEAYQ
 KLASETLEELDWC LDQLETLQTRHSVSEMASNFKRMLNRELTHLSEMSRSGNQVSEFISNTFLDKQHEV
 EIPSPQTQKEKEKKRPM SQISGVKLMHSSSLTNSSIPRFGVKTEQEDVLAKELEDVKNWGLHVFRI AEL
 SGNRPLTVIMHTIFQERDLLKTFKIPVDLITLYLMTLEDHYHADVAYHNNIHAADVQSTHVLLSTPALE
 AVFTDLEILAAIFASAIHDVDHPGVSNQFLINTNSELALMYNDSSVLENHHLAVGFKLLQEENCDFQNL
 TKKQRQSLRKMVIDIVLATDMSKHMNLLADLKT MVETKKVYSSGVLLLDNYSDRIQVLQNMVHCADLSNP
 TKPLQLYRQWTRIMEEFFRQGDRE RERGMEISPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDA
 QDILD TLEDNREWYQSTIPQSPSPAPDDPEEGRQGQTEKFQFELTLEEDGESDTEKDSGSQVEEDTSCSD
 SKLTCTQDSESTEIPLDEQVEEEAVGEEESQPEACV IDDRSPDT

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_001197218

ORF Size: 2235 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_001197218.2](#)

RefSeq ORF: 2238 bp

Locus ID: 5144

UniProt ID: [Q08499](#)

Cytogenetics: 5q11.2-q12.1

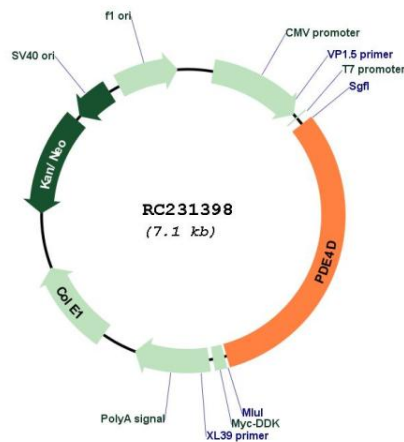
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 84.9 kDa

Gene Summary: This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RC231398