

Product datasheet for **RC230849**

PDE4D (NM_001197223) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4D (NM_001197223) 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:

>RC230849 representing NM_001197223
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGAAGCAAACATTTACTGTCTGAGTCTTGGGGCTACATAAAGTTTAAAAGGATGCTTAATCGGG
 AGCTACCCATCTCTCTGAAATGAGTCGGTCTGGAAATCAAGTGTGAGAGTTTATATCAAACACATTCTT
 AGATAAGCAACATGAAGTGGAAATTCCTTCTCCAACCTCAGAAGGAAAAGGAGAAAAAGAAAGACCAATG
 TCTCAGATCAGTGGAGTCAAGAAATGATGCACAGCTCTAGTCTGACTAATTCAGTATCCCAAGGTTTG
 GAGTTAAACTGAACAAGAAGATGTCCTTGCCAAGGAACTAGAAGATGTGAACAAATGGGGTCTTCATGT
 TTTCAGAATAGCAGAGTTGTCTGGTAACCGGCCCTTGACTGTTATCATGCACACCATTTTTTCAGGAACGG
 GATTTATAAAAACATTTAAAAATCCAGTAGATACTTTAATTACATATCTTATGACTCTCGAAGACCATT
 ACCATGCTGATGTGGCCTATCACAACAATATCCATGCTGCAGATGTTGTCCAGTCTACTCATGTGCTATT
 ATCTACACCTGCTTTGGAGGCTGTGTTACAGATTTGGAGATTCTGCAGCAATTTTTGCCAGTGAATA
 CATGATGTAGATCATCCTGGTGTGTTCAATCAATTTCTGATCAATACAACTCTGAACCTGCCTTGATGT
 ACAATGATTCTCAGTCTTAGAGAACCATCATTTGGCTGTGGGCTTTAAATTGCTTCAGGAAGAAAACCTG
 TGACATTTCCAGAAATTTGACCAAAAAACAAAGACAATCTTTAAGGAAAAATGGTCATTGACATCGTACTT
 GCAACAGATATGTCAAAACACATGAATCTACTGGCTGATTTGAAGACTATGGTTGAAACTAAGAAAGTGA
 CAAGCTCTGGAGTTCTTCTTCTTGATAATTATCCGATAGGATTCAGGTTCTTCAGAATATGGTGCAGTGT
 GAGTCTGAGCAACCAACAAAGCCTCTCCAACGTACCGCCAGTGGACGGACCGGATAATGGAGGAG
 TTCTTCGCCAAGGAGACCGAGAGAGGGAACGTGGCATGGAGATAAGCCCATGTGTGACAAGCACAAATG
 CTTCCGTGGAAAAATCACAGGTGGGCTTCATAGACTATATTGTTTATCCCCTCTGGGAGACATGGGCGA
 CCTCGTCCACCCTGACGCCAGGATATTTGGACACTTTGGAGGACAATCGTGAATGGTACCAGAGCACA
 ATCCCTCAGAGCCCTCTCCTGCACCTGATGACCCAGAGGAGGGCCGGCAGGGTCAAACCTGAGAAATTC
 AGTTTGAACAACTTTAGAGGAAGATGGTGTGAGTGCAGACACGAAAAGGACAGTGGCAGTCAAGTGGAAAG
 AGACACTAGTGCAGTACTCCAAGACTCTTGTACTCAAGACTCAGAGTCTACTGAAATCCCCTTGAT
 GAACAGGTTGAAGAGGAGGACAGTGGGGAAGAAGAGGAAAGCCAGCCTGAAGCCTGTGTCATAGATGATC
 GTTCTCCTGACACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230849 representing NM_001197223
 Red=Cloning site Green=Tags(s)

MPEANYLLSVSWGVIKFKRMLNRELTHLSEMSRSGNQVSEFISNTFLDKQHEVEIPSPTQKEKEKKRPM
 SQISGVKLMHSSSLTNSIPRFVKTQEEDVLAKELEDVNKWGLHVFRIAEISGNRPLTVIMHTIFQER
 DLLKTFKIPVDTLITYLMTLEDHYHADVAHYHNNIHAADVQSTHVLLSTPALEAVFTDLEILAAIFASAI
 HDVDHPGVFNQFLINTNSELALMYNDSSVLENHHLAVGFKLLQEENCDIFQNLTKKQRQSLRKMVIDIVL
 ATDMSKHMNLLADLKTVMETKKTSSGVLDDNYSDRIQVLQNMVHCADLSNPTKPLQLYRQWTDRIIMEE
 FFRQGDREMERGMEISPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDAQDILDLEDNREWYQST
 IPQSPSPAPDDPEEGRQGQTEKQFELTLEEDGESDTEKDSGSQVEEDTSCSDSKTLCTQDSESTEIPLD
 EQVEEEAVGEEEEEQPEACVIDDRSPDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001197223

ORF Size: 1554 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_001197223.1](#), [NP_001184152.1](#)

RefSeq ORF: 1557 bp

Locus ID: 5144

UniProt ID: [Q08499](#)

Cytogenetics: 5q11.2-q12.1

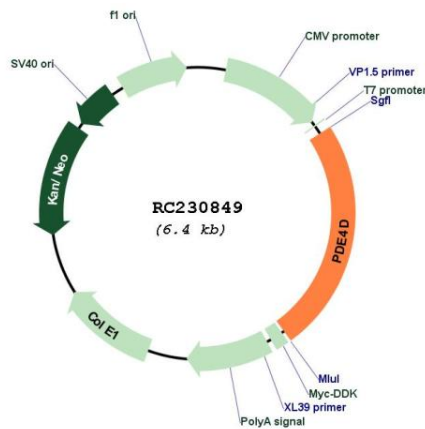
Protein Families: Druggable Genome

Protein Pathways: Progesterone-mediated oocyte maturation, Purine metabolism

MW: 59.6 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 RC230849