

Product datasheet for **RC231281**

PDE4D (NM_001197221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4D (NM_001197221) 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:

>RC231281 representing NM_001197221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCCAACAAGTTTAAAAGGATGCTTAATCGGGAGCTCACCCATCTCTGAAATGAGTCGGTCTG
 GAAATCAAGTGTAGAGTTTATATCAAACACATCTTAGATAAGCAACATGAAGTGAAATTCCTTCTCC
 AACTCAGAAGGAAAAGGAGAAAAAGAACCAATGTCTCAGATCAGTGGAGTCAAGAAATGATGCAC
 AGCTCTAGTCTGACTAATTCAAGTATCCAAGTTTGGAGTAAAAGTGAACAAGAAGATGTCCTTGCCA
 AGGAACTAGAAGATGTGAACAAATGGGGTCTTCATGTTTTCAGAAATAGCAGAGTTGTCTGGTAACCGGCC
 CTTGACTGTTATCATGCACACCATTTTTAGGAAACGGGATTTATAAAAACATTTAAATTCAGTAGAT
 ACTTTAATTACATATCTTATGACTCTCGAAGACCATTACCATGCTGATGTGGCCTATCACAACAATATCC
 ATGCTGCAGATGTTGTCCAGTCTACTCATGTGCTATTATCTACACCTGCTTTGGAGGCTGTGTTACAGA
 TTTGGAGATTCTGCAGCAATTTTGGCAGTGAATACATGATGTAGATCATCCTGGTGTGTCGAATCAA
 TTTCTGATCAATACAACTCTGAACTTGCCTTGATGTACAATGATTCTCAGTCTTAGAGAACCATCATT
 TGGCTGTGGGCTTTAAATTTGCTTCAGGAAGAAAAGTGTGACATTTTCCAGAAATTTGACCAAAAAACAAG
 ACAATCTTTAAGGAAAATGGTCATTGACATCGTACTTGAACAGATATGTCAAAACATGAATCTACTG
 GCTGATTTGAAGACTATGGTTGAAACTAAGAAAGTGACAAGCTCTGGAGTTCTTCTTCTTGATAATTATT
 CCGATAGGATTCAGGTTCTTTCAGAAATATGGTGCAGTGTGAGCAACCCAAACAAAGCCTCTCCA
 GCTGTACCGCCAGTGGACGGACCGGATAATGGAGGAGTCTTCCGCCAAGGAGACCGAGAGAGGGAAACGT
 GGCATGGAGATAAGCCCCATGTGTGACAAGCACAATGCTTCCGTGGAAAAATCACAGTGGGCTTCATAG
 ACTAATTGTTTCATCCCCTCTGGGAGACATGGGCAGACCTCGTCCACCCTGACGCCAGGATTTTTGGA
 CACTTTGGAGGACAATCGTGAATGGTACCAGAGCACAATCCCTCAGAGCCCTCTCCTGCACCTGATGAC
 CCAGAGGAGGGCCGCGCAGGGTCAAAGTGAAGAAATTCAGTTTGAAGTAACTTTAGAGGAAGATGGT
 GAGT CAGACACGGAAAAGGACAGTGGCAGTCAAGTGAAGAAGACACTAGCTGCAGTACTCCAAGACTCTTTG
 TACTCAAGACTCAGAGTCTACTGAAATCCCCTTGATGAACAGGTTGAAGAGGAGGCAGTAGGGGAAGAA
 GAGGAAAGCCAGCCTGAAGCCTGTGTCATAGATGATCGTTCTCCTGACACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231281 representing NM_001197221
 Red=Cloning site Green=Tags(s)

MASNFKRMLNRELTHLSEMSRSGNQVSEFISNTFLDKQHEVEIPSPTQKEKEKKRPMPSQISGVKKLMH
 SSSLTNSIPRFGVKTEQEDVLAKELEDVKNKWLHVFRIAE LSGNRPLTVIMHTIFQERDLLKTFKIPVD
 TLITYLMTLEDHYHADVA YHNNIHAADVQSTHVLLSTPALEAVFTDLEILAAIFASAIHVDHPGVSQ
 FLINTNSELALMYNDSSVLENNHLLAVGFKLLQEENCDIFQNLTKKQRQSLRKMVIDIVLATDMSKHMNLL
 ADLKT MVETKKTSSGVLLLDNYS DRIQVLQNMVHCADLSNPTKPLQLYRQWDRIMEEFFRQGDRENER
 GMEISPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDAQDILD TLEDNREWYQSTIPQSPSPAPDD
 PEEGRQQT EKFQFELTLEEDGESDTEKDSGSQVEEDTSCSDSKLCTQDSESTEIPLDEQVEEEAVGEE
 EESQPEACVIDDRSPDT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_b03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001197221

ORF Size: 1521 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

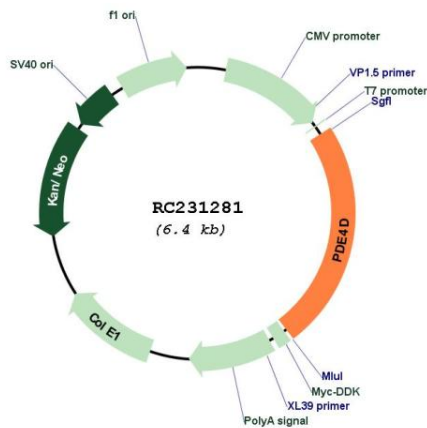
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001197221.2](#)
RefSeq ORF: 1524 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: 58.2 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 RC231281