

Product datasheet for **RC226179**

PDE4D (NM_001104631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE4D (NM_001104631) 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:

>RC226179 representing NM_001104631
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCAGAGGGCAGCAGCGCGCCGGCCGGCGGGCAGCGGAGAGGGCAGCGACAGCGCCGGCGGG
 CCACGCTCAAAGCCCCAAGCATCTCTGGAGGCACGAGCAGCACCACAGTACCCGCTCCGCGAGCCCCA
 GTTCCGCCTCCTGCATCCCCATCACACCTGCCCCCGCCGCCACCCTCGCCCCAGCCCCAGCCCCAG
 TGTCCGCTACAGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGGGCTGCCCGCGCC
 GCTACGCCTCGAGCGGGGCCACCGCGCGTCCGGCATCGCGGCTACTCGGACCCGAGCGCTACCTGTA
 CTGTGCGCCATGGACCGCACCTCTACCGGTGGAGACCGGCCACCGCCCGCCCTGAAGAAATCCAGG
 ATGTCCTGGCCCTCCTCGTTCAGGGACTCAGCGTTTTGATGTGGACAATGGCACATCTCGGGACGGA
 GTCCTTGGATCCATGACCAGCCAGGATCCGGGCTAATCTCCAAGCAATTTTGTCCACAGTCAACG
 ACGGGAGTCTTCTGTATCGATCCGACAGCGATTATGACCTCTCTCAAAGTCTATGTCCCGAACTCC
 TCCATTGCCAGTGATATACACGGAGATGACTTGATTGTGACTCCATTTGCTCAGGCTTTGGCCAGTCTGC
 GAACTGTACGAAACAACCTTTGCTGCATTAATAATTTGCAAGATCGAGCACCTAGCAAAAGATCACCCAT
 GTGCAACCAACCATCCATCAACAAAGCCACCATAACAGAGGAGGCCTACCAGAACTGGCCAGCGAGACC
 CTGGAGGAGCTGGACTGGTGTCTGGACCAGCTAGAGACCTACAGACCAGGCACTCCGTCAGTGAGATGG
 CCTCCAACAAGTTTAAAAGGATGCTTAATCGGGAGCTCACCCATCTCTGAAATGAGTCGGTCTGGAAA
 TCAAGTGCAGAGTTTATCAACACATTCTTAGATAAGCAACATGAAGTGAAATTCCTTCTCCAAC
 CAGAAGGAAAAGGAGAAAAAGAAAGACCAATGTCTCAGATCAGTGGAGTCAAGAAATGATGCACAGCT
 CTAGCTGACTAATCAAGTATCCCAAGTTTGGAGTTAAAAGTGAACAAGAAGATGCTTCCCAAGGA
 ACTAGAAGATGTGAACAATGGGGTCTTCATGTTTTCAGAATAGCAGAGTTGTCTGGTAACCGGCCCTTG
 ACTGTTATCATGCACACCATTTTTAGGAACGGGATTTATTAACAACTTTAAAATTCAGTAGATACTT
 TAATTACATATCTTATGACTCTCGAAGACCATTACCATGCTGATGTGGCCTATCACAACAATATCCATGC
 TGCAGATGTTGTCCAGTCTACTCATGTGCTATTATCTACACCTGCTTTGGAGGCTGTGTTTACAGATTTG
 GAGATTCTTGCAATTTTTGCCAGTGAATACATGATGATGATCATCCTGGTGTGTTCAATCAATTTT
 TGATCAATACAACTCTGAACTTGCTTGATGTACAATGATTCTCAGTCTTAGAGAACCATCATTTGGC
 TGTGGCTTTAAATGCTTCAGGAAGAAAAGTGTGACATTTCCAGAATTTGACCAAAAAACAAAGACAA
 TCTTTAAGGAAAATGGTCATTGACATCGTACTTGAACAGATATGTCAAACACATGAATCTACTGGCTG
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 TAGGATTCAGGTTCTTCAAGATATGGTGCATGTGCGATCTGAGCAACCAACAAAGCCTCTCCAGCTG
 TACCGCCAGTGGACGGACCGGATAATGGAGGAGTTCTCCGCCAAGGAGACCGAGAGAGGGAAACGTGGCA
 TGGAGATAAGCCCCATGTGTGACAAGCACAATGCTTCCGTGGAAAAATCACAGGTGGGCTTCATAGACTA
 TATTGTTTATCCCTCTGGGAGACATGGGCAGACCTCGTCCACCTGACGCCAGGATATTTTGGCACT
 TTGGAGGACAATCGTGAATGGTACCAGAGCACAATCCCTCAGAGCCCCTCTCCTGCACCTGATGACCCAG
 AGGAGGGCCGGCAGGGTCAAACAGAAATCCAGTTTGAACAACTTTAGAGGAAGATGGTGGTGCAG
 CACGAAAAGGACAGTGGCAGTCAAGTGAAGAAGACACTAGTGCAGTACTCCAAGACTTTTGTACT
 CAAGACTCAGAGTCTACTGAAATTTCCCTTGTGAACAGGTTGAAGAGGAGGCAGTAGGGGAAGAAGAGG
 AAAGCCAGCCTGAAGCCTGTGTCATAGATGATCGTTCTCCTGACACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226179 representing NM_001104631
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MEAE GSSAPARAGSGEGSDSAGGATLKAPKHLWRHEQHHQYPLRQPQFRLLHPHHHLPPPPPPSPQPQPQ
CPLQPPPPPLPPPPPPGAARGRYASSGATGRVRHRGYS DTERYL YCRAMDRTSYAVETGHRPGLKKS R
MSWPSSFQGLRRFDVDNGTSAGRSPLDPMTSPGSGLILQANFVHSQRRESFLYRSDSDYDLSPKSMSRNS
SIA SDIHGDDLIVTPFAQVLA SLRTVRNNFAALTNLQDRAPSKRSPMCNQPSINKATITEEAYQKLASET
LEELDWC LDQLETLQTRHSVSEMASNKFKRMLNRELTHLSEMSRSGNQVSEFISNTFLDKQHEVEIPSP T
QKEKEKKKRPMSQISGVK KLMHSSSLTNSSIPRFGVKTEQEDVLAKELEDV NKWGLHVFRIAELSGNRPL
TVIMHTIFQERDLLKTFKIPVDTLITYLMTLEDHYHADVAYHNNIHAADV VQSTHVLLSTPALEAVFDL
EILAAIFASAIHDVDHPGVSNQFLINTNSELALMYNDSSVLENHHLAVGFKLLQEENC DIFQNLTKKQRQ
SLRKMVIDIVLATDMSKHMNLLADLKT MVETKKVTSSGVLLLDNYS DRIQVLQNMVHCADLSNPTKPLQL
YRQWTD RIMEEFFRQGDRE RERGMEISPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDAQDILDT
LEDNREWYQSTIPQSPSPAPDDPEEGRQGQTEKFQFELTLEEDGESDTEKDSGSQVEEDTSCSDSKTLCT
QDSESTEIPLDEQVEEEAVGEEEE SQPEACVIDDRSPDT
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

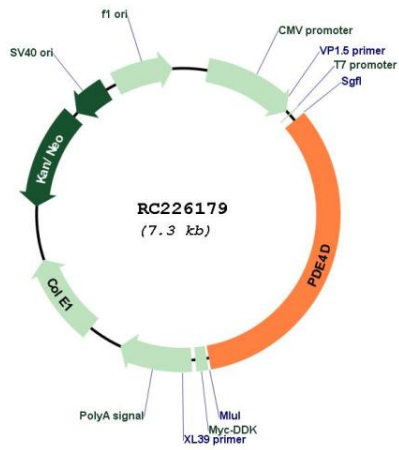


* The last codon before the Stop codon of the ORF

ACCN: NM_001104631
 ORF Size: 2427 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001104631.2
RefSeq ORF:	2430 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:	90.9 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 RC226179