

Product datasheet for **RR200500**

Pde4d (NM_001113329) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde4d (NM_001113329) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde4d
Synonyms:	DPDE3; PDE3/IVd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR200500 representing NM_001113329
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGGAACACTTGGCATGTACTTTCTCGGAGCAAAAAGTGCCTCTGAGGAAACATTGCACTCCTGTA
 ATGATGAAGAGGACCCCTTCCGGGGAATGGAGCCCTATCTCGTACGGAGACTTTTCATCCCGCAGCATCCA
 GCTTCCTCCTCTTGCCTTCAAGACAGTTGGAGCAACCGGACTTGGCAAGCGAATCAGAGAACATCCGCGG
 CCAACTAGCCTCCCTTAAAACTCTGCCGCTGATTGCTGTACATCCGCAGACTCGACTGGTTTCGATG
 TGGACAATGGCACATCAGCGGGACGGAGTCCCTTGGATCCCATGACCAGCCAGGGTCTGGGCTAATTCT
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 TCTCAAAGTCTATGTCCAGGAACCTCGATTGCCAGTGATATACATGGAGATGACTTGATTGTGACTC
 CATTGCTCAGGCTTGGCCAGCCTTGAAGTGAAGAAACAACCTTGTGCATTAATAATTTGAAGA
 TCGCGCACCCAGCAAAAGATCACCCATGTGCAACCAACCATCCATCAACAAAGCCACCATCACAGAGGAG
 GCCTACAGAAACTGGCCAGCGAGACCCTGGAGGAGCTGGACTGGTGTCTGGACCAGCTAGAGACCCTGC
 AGACCAGGCACTCCGTCACTGAGTGGCTCCAACAAGTTCAAGAGGATGCTTAATCGGGAGCTCACCCA
 CCTCTCTGAAATGAGTCCGTCTGGCAACCAGGTGTCCGAGTACATATCAAACACGTTCTTAGATAAGCAA
 CATGAAGTAGAAATCCCTCTCCGACTCAGAAGGAAAAAGAGAAGAAGAAAGGCCGATGTCACAGATCA
 GTGGGGTCAAGAAGTTGATGCACAGCTCCAGCCTGACCAATTCCTGCATTCCAAGATTTGGGGTAAAAAC
 AGAGCAGGAAGATGTCTGGCAACCGCCTCTGACTGTTATCATGCACACCATTTTCAGGAACGAGATTTGTTAA
 AAGCTTTAAAAATCCAGTGGACACTTTGATTACGTATCTTATGACTCTAGAAGACCATTACCATGTGA
 CGTGGCCTATCAACAACATCCATGCTGCAGATGCTCCAGTCAACTCATGTGCTGCTCTACACCC
 GCTTTGGAGGCTGTTTTCACTGACTTGGAGATTCTCGCGCCATTTTTGCCAGTGAATACATGATGTGG
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 CTCCGTCTTAGAGAATCATCATTGGCTGTGGCTTTAAGTTGCTCCAGGAAGAAAACGTGACATTTTC
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 AGGGGGACCGGGAGCGTGAGCGTGGCATGGAGATAAGTCCCATGTGTGACAAGCACAACGCCTCTGTGGA
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 CCCGACGCCAGGACATTTTGGACACTTTGGAGGACAATCGTGAGTGGTACCAGAGCACAAATCCCCCAGA
 GCCCTCCCTGCACCTGATGACCAAGAGGACGGCCGTGAGGACAGACTGAAAAATTCAGTTCGAACT
 AACCTTAGAGGAAGATGGCGAGTCAAGCACTGAAAAGGACAGTGGAAAGTCAAGTGGAGGAAGACTAGC
 TGCAGTGACTCTAAGACTCTGTGCACCCAAGACTCAGAGTCCACTGAAATTTCCCTTGCAGAGCAGGTTG
 AAGAGGAGGCTGTAGCAGAAGAGGAAAGCCAGCCCCAACTGGCGTCGCAGACGATTGTTGCTCCTGACAC
 G

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200500 representing NM_001113329
 Red=Cloning site Green=Tags(s)

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MERNTCDVLSRSKSASEETLHSCNDEEDPFRGMEPYLVRRLSSRSIQLPPLAFRQLEQTDLRSESENI  

    PRTSLPLKILPLIAVTSADSTGFVDVNGTSAGRSPLDPMTSPGSLILQANFVHSQRRESFLYRSDSDYDL  

    SPKSMSRNSIASDIHGDDLIVTPFAQVLASLRTVRNFAALTNLQDRAPSKRSPMCNQPSINKATITEE  

    AYQKLASETLEELDWCLELQLETLQTRHSVSEMASNKFKRMLNRELTHLSEMSRSGNQVSEYISNTFLDKQ  

    HEVEIPSPTQKEKEKKRPMISQISGVKMLMHSSSLTNSCIPRFGVKTEQEDVLAKELDVNKWGLHVFRI  

    AELSGNRPLTVIMHTIFQERDLLKTFKIPVDTLITYLMTLEDHYHADVAHNNIHAADVQSTHVLSTP  

    ALEAVFTDLEILAAIFASAIHDVDHPGVSQFLINTNSELALMYNDSSVLENHHLAVGFKLLQEENCDF  

    QNLTKKQRQSLRKAIDIVLATDMSKHMNLLADLKTMTVETKKVTSQGVLLLDNYSRIQVLQNMVHCADL  

    SNPTKPLQLYRQWTDRIEMEEFRQGDREERERGMESPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVH  

    PDAQDILDLEDNREWYQSTIPQSPAPDDQEDGRQGQTEKFQFELTLEEDGESDTEKDSGSQVEEDTS  

    CDSKTLCTQDSESTEIPLDEQVEEEAVAEESQPTGVADDCCPDT
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001113329

ORF Size: 2241 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_001113329.1](#), [NP_001106800.1](#)

RefSeq Size: 2385 bp

RefSeq ORF: 2244 bp

Locus ID: 24627

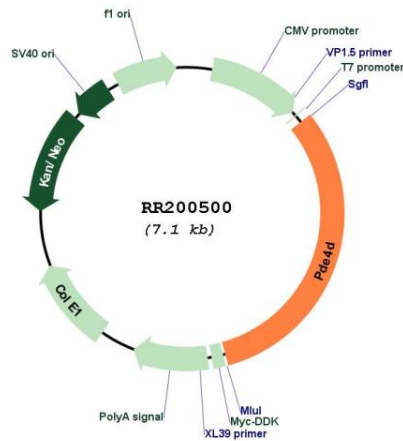
UniProt ID: [P14270](#)

Cytogenetics: 2q14

MW: 84.4 kDa

Gene Summary: may contain eight isoforms that display differential expression and activities; isoforms Pde4D6 and Pde4D7 exhibit high affinity for cyclic AMP and are inhibited by rolipram [RGD, Feb 2006]

Product images:



Circular map for RR200500