

Product datasheet for **RR207991**

Pde4a (NM_013101) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde4a (NM_013101) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde4a
Synonyms:	PHOSA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207991 representing NM_013101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCTCCGGCCGCCCTCGGAAAGGAGCCTGTCTCTCTCTTCCGGGGCCCGGGAGGGCCAGG
 CCACCCTGAAGCCGCCCCCCAGCACCTGTGGCGGACCGAGGACCCCGATCCGCATCCAGCAACGCGG
 CTACCCGGACAGTGCCGAGCGCTCAGAGACAGAGCGCTCACCGCACCGGCCCATAGAGCGCGCCGACGCC
 GTGGACTGGGACCGGCCAGGCTGCGGACTACCCGCATGTCTGGCCCTCGTCTTCCACGGCACCG
 GTACCGGCGGAGGACAGTGGCGCTTGGAGGCAGAAAATGGGCCAACGCCATCCCCTGGCCGACGCC
 CCTGGACTCGCAGGCGAGCCGGGGCTTGTGCTGCATGCTGGGGCCACCACCAGCCAGCGCCGCGAGTCC
 TTCCTCTACCGCTCAGACAGCGACTATGACATGTACCGAAGGCTGTGTCCAGGAGCTCGTCTGTGCCA
 GCGAAGCGCACGCTGAGGACCTATTGTGACACATTTGCCAGGTGCTGGCCAGTCTCCGACGCTTCCG
 AAGCAACTTCTACTCTTAACCAATGTGCCATCCCAGCAACAAGAGGTCTCCACTGGGTGGCCACCC
 TCTGTCTGCAAGGCCACACTGTCAGAGGAGACGTGCCAGCAGCTGGCCCGGAGACCCCTGGAAGAGCTGG
 ATTGGTGCCTGGAGCAGCTGGAGACCATGCAGACCTACCGCTCTGTGACGAGATGGCCTCACACAAGTT
 CAAAAGGATGCTGAACCGTGAGCTCACACACCTGTCCGAAATGAGCAGGTGAGGAAACAGGTCTCAGAG
 TACATTTCCAACACATTCCTGGACAAGCAGAATGAAGTGGAGATCCCCTCACCCACACCTCGGCAGAGAG
 CTTTCCAGCAGCCCCGCCGTGAGTGTGCGACAGTCCCAGCCATGTCTCAGATCACAGGGCTGAAAAA
 GCTGGTACACACTGGAAGCTTGAACACCAACGTCCCACGGTTTGGAGTCAAGACAGATCAAGAGGACCTC
 TTAGCACAAAGAACTGGAGAATGAGCAATGGGGCTGAACATCTTTTGTGTGTCGGAGTACGCTGGAG
 GCGGCTCACTCAGCTGTATCATGTATCATGATATCCAGGAGCGGGACCTACTGAAGAAATTCACATCCC
 TGTGGACACCATGATGATGTACATGCTGACCCCTGGAGGACCACTACCATGCCGAGTGGCCTACCACAAC
 AGCCTGCACGCAGCGGATGTGCTGCAGTCCACACAGTGTGCTGGCCACGCCCGCACTGGACGCTGTGT
 TCACAGACCTGGAGATTCTGCTGCCCTCTCGCTGCTGCCATCCACGATGTGGACCACCCTGGCGTCTC
 CAACCAGTTCTAATCAACACCAATTCCGAGCTGGCGTTGATGTACAACGATGAGTCTGTGCTTGAGAAC
 CACCACCTGGCTGTGGGATTCAAGCTGTGCAAGAAGAGAAGTGGCAGATCTTCCAGAACCTCAGCAAGC
 GCCAGCGGAGAGCCTGCGCAAGATGGTCATCGACATGGTGTGGCCACAGACATGTCCAAACACATGAC
 CCTCTGGCTGACCTGAAGACTATGGTGGAGACGAAGAAAGTACCAGCTCCGGAGTTCTTTGCTGGAC
 AACTACTCTGACCGTATCCAGGTCTCAGGAACATGGTGCATGTGCAGACCTCAGCAATCCCACCAAGC
 CCCTGGAGCTGTACCGACAGTGGACCGACCGCATCATGGCTGAGTTCTTCCAGCAGGGCGACCGAGAACG
 GGAGCGTGGAAATGGAGATCAGCCCCATGTGCGACAAGCACACAGCCTCTGTGGAGAAGTCTCAGGTGGGC
 TTCATCGACTACATTGTTTCATCCATTGTGGGAGACATGGGCAGATCTCGTCCACCCGGATGCCAAAGACA
 TCCTGGACACGCTGGAAGACAACCGGGACTGGTACCACAGTGCCATTCGGCAGAGTCTTCCCCACCCCT
 GGAAGAGGAGCCAGGGGGCTTGGCCATCCGTCCCTGCCTGACAAGTTCCAATTTGAGCTCACCTTGGAG
 GAAGAGGAGGAAGAGGATTCTTGGAGGTTCCAGGATTGCCTACCACTGAGGAAACCTTCTGGCTGCAG
 AGGATGCCAGAGCTCAAGCTGTGGACTGGTCAAAGGTCAAAGGCCCGAGCACTACAGTGGTGAAGTGGC
 AGAGCGCTTGAAGCAGGAGACCGCCTCAGCATATGGTGTCTCCTCAGGAGTCCATGGAGGCTGTAGGCTGT
 TCCTTCAGCCCTGGGACCCCTATTCTGCCTGACGTGAGGACCCTATCCTCCTCAGAGGAGGCCCCGGGCC
 TCCTGGGCTCCCTCCACGGCGCAGAGGTGGAGGCCCAAGAGACCATCTGGCTGCCACGAGGGCTTGTG
 TTCTGCCTGCTCTGGACCTCAGGAGACAATTCTGCCATCATCTGCTCCAGGCAGGTGGGGTTCAGGC
 GGAGACCCTGCC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207991 representing NM_013101
Red=Cloning site Green=Tags(s)

MEPPAAPSERLSLSLPGPREGQATLKPPPQHLWRQPRTPIRIQQRGYPDSAERSETERSPHRPIERADA
VDTGDRPGLRTRMSWPSSFHGTGTGGSSRRLEAENGPTSPGRSPLDSQASPLVLHAGATTSQRRES
FLYRSDSDYDMSPKAVSRSSSVASEAHAEDLIVTFPAQVLASLRVRSNFSLLTNVPIPSNKRSPGGPP
SVCKATLSEETCQQLARETLEELDWCLEQLETMQTYRSVSEMASHKFKRMLNRELTHLEMSRSGNQVSE
YISNTFLDKQNEVEIPSPTPRQRAFQPPPSVLRQSQPMSQITGLKLVHTGSLNTNVPRFGVKTDQEDL
LAQELENLSKWGLNIFCVSEYAGGRSLSCIMYTIQERDCLKKFHIPVDMMMYMLTLEDHYHADVAYHN
SLHAADVLSQSTHVLLATPALDAVFTDLEILAALFAAAIHDVDHPGVSNQFLINTNSELALMYNDESLEN
HHLAVGFKLLQEENCDFQNLKRQRQSLRKMVIDMVLATDMSKHMTLLADLKTMVETKKVTSSGVLLLD
NYSRIQVLRNMVHCADLSNPTKPLELYRQWTDRI MAEFFQQGDRERERGMEISPMCDKHTASVEKSQVG
FIDYIVHPLWETWADLVHPDAQILDLEDNRDWYHSAIRQSPSPLEEEPGGLGHPSLPDKFQFELTLE
EEEEEDSLEVPGLPTTEETFLAAEDARAQAVDWSKVKGPSSTTVVEAERLKQETASAYGAPQESMEAVGC
SFSPGTPILPDVRTLSSSEEAPGLLGLPSTAAEVEAPRDHLAATRACSACSGTSGDNSAIISAPGRWGS
GDPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

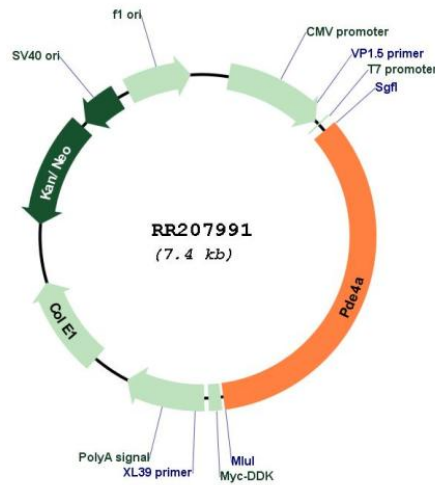
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_013101
ORF Size:	2532 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:	<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_013101.3 , NP_037233.3
RefSeq Size:	2914 bp
RefSeq ORF:	2535 bp
Locus ID:	25638
UniProt ID:	P54748
Cytogenetics:	8q13
MW:	93.4 kDa
Gene Summary:	human homolog catalyzes the hydrolysis of cAMP; activity is inhibited by rolipram [RGD, Feb 2006]