

Product datasheet for **RR206838**

Pdpk1 (NM_031081) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdpk1 (NM_031081) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdpk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206838 representing NM_031081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCAGGACCACCAGCCAGCTGTATGACGCTGTGCCATTTCAGTCCAGTGTGGTGTATGTTCTGCC
 CATCCCCATCAATGGTGAGGTCCCAGACTGAGCCAGCTCGTCCCCTGGCATTCCCTAGTGGTGTAGCAG
 GCAGGGATCCACCATGGACGGCACCACAGCTGAAGCCCGACCAAGCACCACCCCTTGCAGCAGCACCT
 GCCCAGCTGCCACCACAGCCTCGCAAGAAACGCCCTGAAGACTTCAAGTTTGGGAAAATTCTTGGCGAGG
 GCTCTTTTTGCACAGTTGTTCTGGCCCGAGAAGTGGCCACTTCCAGAGAATATGCTATTAATAATTCTGGA
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 GATCACCCCTTCTTTGTAAACTTTACTTTACGTTTCAGGACGACGAAAAGCTGTATTTTGGCCTTAGTT
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 CCCAGACAGCAAAACAGCTAGAGCCAATTCATTTGTAGGAACAGCGCAGTATGTTTCTCCAGAGCTGCT
 CACAGAGAAGTCGGCGTGTAAAAGTTTCCAGACTTTGGGCCCTTGGATGTATAATCTATCAGCTTGTGGCA
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 CCACTCCCTGTGTGCGGTGGATGCCAGCCTGCCAGAGGTCGGGCAGCAACATAGAGCAGTACATTCAT
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 GTGGTGCAGAAAGATCCAGGAGTTTGGAGGCAACAGTACCAGAGCAGTCCAGATGCTGCTGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206838 representing NM_031081
 Red=Cloning site Green=Tags(s)

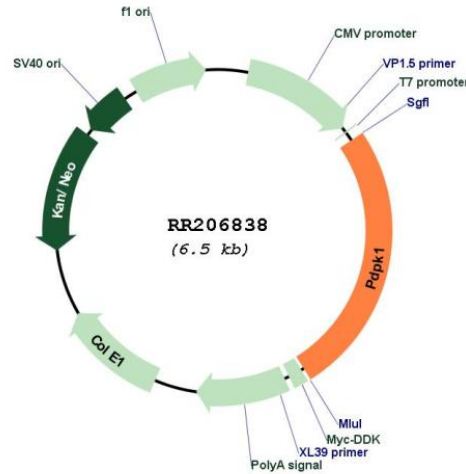
MARTTSQLYDAVPIQSSVVLCSPPSPSMVRSQTEPSSSPGIPSGVSRQGSTMDGTTAEARPSTNPLQQHP
 AQLPPQPRKKRPEDFKFGKILGEGSFSTVVLARELATSREYAIKILEKRHIKENKVPPYVTRERDMSRL
 DHPFFVKLYFTFQDDEKLYFGLSYAKNGELLKYIRKIGSFDECTRFYTAEIVSALEYLHGKGIHRDLK
 PENILLNEDMHIQITDFGTAKVLSKQARANSFVGTAVVSPPELLTEKSACKSSDLWALGCIYQLVA
 GLPPFRAGNEYLIFQKI IKLEYDFPEKFFPKARDLVEKLLVLDATKRLGCEEMEGYGPLKAHPFFESITW
 ENLHQQTTPPKLTAYLPAMSEDDDCYGNYNLLSQFGCMQVSSSSSSHSLCAVDASLPQRSNIEQYIH
 DLDTNSFELDQFSEDEKRLLEKQAGGNPWHQFVENNLI LKMGVPDKRGLFARRRQLLLTEGPHLYYV
 DPVNVKLVKGEIPWSQELRPEAKNFKTFVHTPNRTYYLMDPSGNAHKWCRKIQEVWRQYQSSPDAAVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN:	NM_031081
ORF Size:	1677 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_031081.1](#), [NP_112343.1](#)

RefSeq Size: 1879 bp

RefSeq ORF: 1680 bp

Locus ID: 81745

UniProt ID: [O55173](#)

Cytogenetics: 10q12

MW: 63.6 kDa

Gene Summary: may catalyze the phosphorylation and activation of protein kinase B [RGD, Feb 2006]