

Product datasheet for **RR216734**

Ppm1b (NM_001270619) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1b (NM_001270619) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppm1b
Synonyms:	Pp2c2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR216734 representing NM_001270619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGCATTTTTGGATAAACCCAAAACCTGAAAAGCACAAATGCTCACGGTGCAGGGAACGGTCTCGCTT
 ACGGTCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGACGCACACTGCTGTTGTGGGAATTCC
 TCACGGCTTGGAGGACTGGTCGTTTTTGCAGTCTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
 TGTTCAACACATCTATTAGAACACATCACTACCAATGAAGACTTTAGGGCAGCTGACAAATCAGGCTTTG
 CTCTTGAGCCGTCAGTGGAAAAATGTTAAGACTGGTATCCGAACGGCTTTTTGAAAATTGATGAATATAT
 GCGTAACTTTTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCTACCGCAGTGGCGTGATGATTCA
 CCGACACACATCTACTTTATCAACTGCGGTGACTCGAGAGCTGTTCTGTGTAGGAATGGACAAGTCTGCT
 TTTCTACCGAGGATCACAAACCTTGTAAATCCAATGAAAAAGGAGCGCATCCAAAATGCAGGAGGCAGTGT
 AATGATACAGCGTGTGAATGGGTGTTAGCAGTGTCTCGTCTCTGGGGACTATGATTACAAGTGTGTT
 GATGGCAAGGGCCACAGAGCAGCTTGTTCCTCAGAGCCTGAGTTTTATGAGATTCTAAGAGCAGAAG
 AGGATGAATTTGTCGTCCTGGCTTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT
 TGTTAACTCTAGGCTTGGGTGTGAGACGACTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
 CATAAGGGAAGTCGAGATAACATGAGTATTGTGTTAGTTTGTCTTTCGAAATGCCCAAGGTCTCAGATG
 AAGCCGTGAAAAGAGATTTAGAGTTGGACAAGCACTTGGAAATCACGGGTGGAAGAAATCATGCAGAAGTC
 TGGAGAGGAAGGAATGCCTGATCTTGCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCAAATTTA
 CCTCCCGGGGAGGCCTCGTGGCAAGCGCAATGTTATTGAAGCTGTTTATAGTAGACTTAATCCAAACA
 AAGCAATGATGGGGCCTCCGAGGAAGCAGGAAAGTGGATCACAGGGGAAATTTGGTGGAAAGCTCTCAG
 GCAAAATGAGAGTTAACCATAGGGGCAACTACCGACAACCTGCTGGAGGAGATGCTGACTAGTTACAGGTA
 GCTAAAGTAGAGGAGAAGAGAGCCCGGCTGGCCAGCTGCTGCAACTGCTTCTTGAACAGTGTGCTG
 GAAACCCAGTGGCAGTGCAGGAGAGACACTGAAAGTGGTCTGCTGAATTAGACAGCCCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216734 representing NM_001270619
 Red=Cloning site Green=Tags(s)

MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYDGHAGSRVANY
 CSTHLLHEITTNEFDRAADKSGFALEPSVENVKTGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMS
 PTHIYFINGDSRAVLCRNGQVCFSTQDHPKPCNPEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
 DGKGPTEQLVSPEPEVYEILRAEDEFVVLACDGIWDVMSNEELCEFVNSRLEVSDDL ENVCNWWVDTC
 HKGSRDNMSIVLVCFANAPKVSDEAVKRDLELDKHLESRVEEIMQKSGEEMPDLAHVMRILSAENIPNL
 PPGGGLAGKRNVEAVYSRLNPNKDNLDGASEEAEESGSQKLEALRQMRVNHARGNYRQLLEMLTSYRL
 AKVEGEESPAGPAAATASSNSDAGNPVAVQERHTESGPAELDSPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

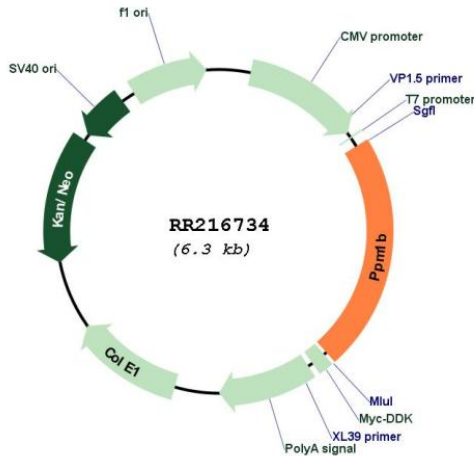
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270619

ORF Size: 1395 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_001270619.1](#), [NP_001257548.1](#)

RefSeq Size: 2587 bp

RefSeq ORF: 1398 bp

Locus ID: 24667

Cytogenetics: 6q12

MW: 51 kDa

Gene Summary: Enzyme with a broad specificity. Dephosphorylates PRKAA1 and PRKAA2. Inhibits TBK1-mediated antiviral signaling by dephosphorylating it at 'Ser-172'. Plays an important role in the termination of TNF-alpha-mediated NF-kappa-B activation through dephosphorylating and inactivating IKBKB/IKKB (By similarity).[UniProtKB/Swiss-Prot Function]