

Product datasheet for **RR208616**

Ppm1b (NM_033096) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1b (NM_033096) 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
ORF Nucleotide Sequence:	>RR208616 representing NM_033096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGCATTTTGGATAAACCCAAAACCTGAAAAGCACAATGCTCACGGTGCAGGGAACGGTCTGCGTT
ACGGTCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGACGCACACTGCTGTTGTGGGAATTCC
TCACGGCTTGGAGGACTGGTCGTTTTTTCAGTCTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
TGTTCAACACATCTATTAGAACACATCACTACCAATGAAGACTTTAGGGCAGCTGACAAATCAGGCTTTG
CTCTTGAGCCGTCAGTGGAAAATGTTAAGACTGGTATCCGAACCTGGCTTTTTGAAAATTGATGAATATAT
GCGTAACCTTTTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCTACCGCAGTGGGCGTGATGATTTCA
CCGACACACATCTACTTTATCAACTGCGGTGACTCGAGAGCTGTTCTGTGTAGGAATGGACAAGTCTGCT
TTTCTACCCAGGATCACAAACCTTGAATCCAATGGAAAAGGAGCGCATCCAAATGCAGGAGGCAGTGT
AATGATACAGCGTGTGAATGGTTCGTTAGCAGTGTCTCGTGTCTGGGGACTATGATTACAAGTGTGTT
GATGGCAAGGGCCACAGAGCAGCTTGTTCCTCAGAGCCTGAGGTTTATGAGATTCTAAGAGCAGAAG
AGGATGAATTTGTCGCTGGCTTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT
TGTTAACTTAGGCTTGAGGTGTCAGACGACCTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
CATAAGGGAAGTCGAGATAACATGAGTATTGTGTTAGTTTGTCTTTCGAAATGCCCAAGTCTCAGATG
AAGCCGTGAAAAGAGATTTAGAGTTGGACAAGCACTTGAATCACGGGTGGAAGAAATCATGCAGAAGTC
TGGAGAGGAAGGAATGCCTGATCTTGCCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCAAATTTA
CCTCCCGGGGAGGCCTCGCTGGCAAGCGCAATGTTATTGAAGCTGTTTATAGTAGACTTAATCCAAACA
AAGACAATGATGGGGCGCTGGCGATCTAGAAGACTCATTGGTAGCCTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208616 representing NM_033096
Red=Cloning site Green=Tags(s)

MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYDGHAGSRVANY
 CSTHLLLEHITTNEFDRAADKSGFALEPSVENVKTGIRTGFLKIDEYMRNFDLNRNGMDRSGSTAVGVMIS
 PTHIYF INCGDSRAVLCRNGQVCFSTQDHPKPCNPMEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
 DGKGPTEQLVSPPEVYEILRAEDEFVVLACDGIWDVMSNEELCEFVNSRLEVSDDLLENVCNWWVDTCL
 HKGSRDNMSIVLVCFANAPKVSDEAVKRDLLELDKHLSESRVEEIMQKSGEEGMPDLAHVMRILSAENIPNL
 PPGGGLAGKRNVIEAVYSRLNPNKDNDGGAGDLEDLSLVAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

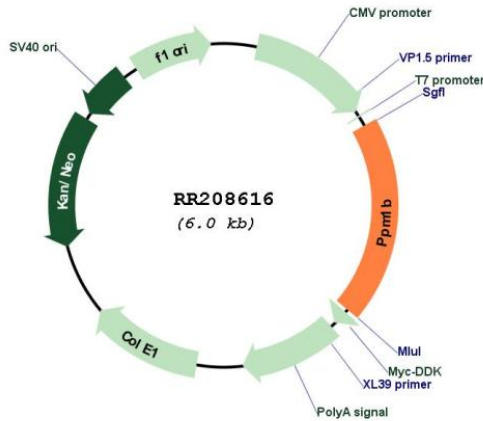
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_033096

ORF Size:	1170 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_033096.2 , NP_149087.1
RefSeq Size:	3267 bp
RefSeq ORF:	1173 bp
Locus ID:	24667
UniProt ID:	P35815
Cytogenetics:	6q12
MW:	42.9 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]