

Product datasheet for **RR216552**

Ppm1b (NM_001270620) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppm1b (NM_001270620) 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: >RR216552 representing NM_001270620
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGTGCATTTTGGATAAACCCAAAACCTGAAAAGCACAATGCTCACGGTGCAGGGAACGGTCTGCGTT
ACGGTCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGACGCACACTGCTGTTGTGGGAATTCC
TCACGGCTTGGAGGACTGGTCGTTTTTTCAGTCTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
TGTTCAACACATCTATTAGAACACATCACTACCAATGAAGACTTTAGGGCAGCTGACAAATCAGGCTTTG
CTCTTGAGCCGTCAGTGGAAAATGTTAAGACTGGTATCCGAACCTGGCTTTTTGAAAATTGATGAATATAT
GCGTAACTTTTCAGACCTGAGGAACGGGATGGACAGGAGCGGCTCTACCGCAGTGGGCGTGATGATTTCA
CCGACACACATCTACTTTATCAACTGCGGTGACTCGAGAGCTGTTCTGTGTAGGAATGGACAAGTCTGCT
TTTCTACCCAGGATCACAAACCTTGAATCCAATGGAAAAGGAGCGCATCCAAAATGCAGGAGGCAGTGT
AATGATACAGCGTGTGAATGGGTCGTTAGCAGTGTCTCGTGTCTGGGGACTATGATTACAAGTGTGTT
GATGGCAAGGGCCACAGAGCAGCTTGTTCCTCAGAGCCTGAGGTTTATGAGATTCTAAGAGCAGAAG
AGGATGAATTTGTCGCTGGCTTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT
TGTTAACTTAGGCTTGAGGTGTCAGACGACCTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
CATAAGGGAAGTCGAGATAACATGAGTATTGTGTTAGTTTGTCTTTCGAAAATGCCCAAGGTCCTCAGATG
AAGCCGTGAAAAGAGATTTAGAGTTGGACAAGCACTTGAATCACGGGTGGAAGAAATCATGCAGAAGTC
TGGAGAGGAAGGAATGCCTGATCTTGCCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCAAATTTA
CCTCCCGGGGAGGCTCGCTGGCAAGCGCAATGTTATTGAAGCTGTTTATAGTAGACTTAATCCAAACA
AAGACAATGATGGGTTTTACCAACCTTCAATCCATACAGTGACAATGTTTTCTATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216552 representing NM_001270620
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MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYDGHAGSRVANY
 CSTHLLLEHITTNEFDRAADKSGFALEPSVENVKTGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMIS
 PTHIYFINCGDSRAVLCRNGQVCFSTQDHPKPCNPMEKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
 DGKGPTEQLVSPPEVYEILRAEDEFVVLACDGIWDVMSNEELCEFVNSRLEVSDDLLENVCNWWVDTCL
 HKGSRDNMSIVLVCFANAPKVSDEAVKRDLLELDKHLSESRVEEIMQKSGEEGMPDLAHVMRILSAENIPNL
 PPGGGLAGKRNVEAVYSRLNPNKDNDGFYQPSIPYSDNVFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

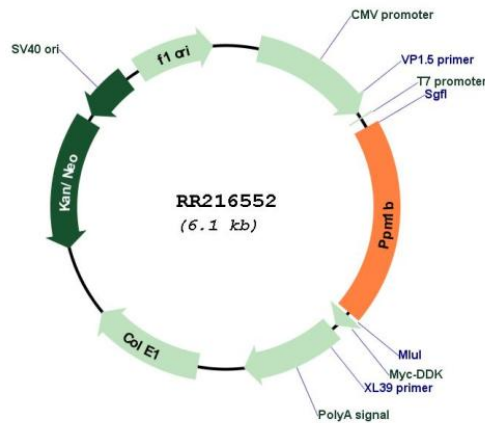
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270620

ORF Size:	1179 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_001270620.1 , NP_001257549.1
RefSeq Size:	2375 bp
RefSeq ORF:	1182 bp
Locus ID:	24667
Cytogenetics:	6q12
MW:	43.5 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]