

Product datasheet for **RN216734**

Ppm1b (NM_001270619) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN216734 representing NM_001270619
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGCATTTTTGGATAAACCCAAAACCTGAAAAGCACAATGCTCACGGTGCAGGGAACGGTCTCGCTT
 ACGGTCTGAGCAGTATGCAAGGATGGAGAGTAGAAATGGAAGACGCACACTGCTGTTGTGGGAATTCC
 TCACGGCTTGGAGGACTGGTCGTTTTTGCAGTCTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
 TGTTCAACACATCTATTAGAACACATCACTACCAATGAAGACTTTAGGGCAGCTGACAAAATCAGGCTTTG
 CTCTTGAGCCGTCAGTGGAAAAATGTTAAGACTGGTATCCGAACGGCTTTTTGAAAATTGATGAATATAT
 GCGTAACTTTTAGACCTGAGGAACGGGATGGACAGGAGCGGCTCTACCGCAGTGGGCGTGATGATTCA
 CCGACACACATCTACTTTATCAACTGCGGTGACTCGAGAGCTGTTCTGTGTAGGAATGGACAAGTCTGCT
 TTTCTACCGAGGATCACAAACCTTGAATCCAATGGAAAAGGAGCGCATCCAAAATGCAGGAGGCAGTGT
 AATGATACAGCGTGAATGGGTCGTTAGCAGTGTCTCGTCTCTGGGGACTATGATTACAAGTGTGTT
 GATGGCAAGGGCCACAGAGCAGCTTGTTCCTCCAGAGCCTGAGGTTTATGAGATTCTAAGAGCAGAAG
 AGGATGAATTTGTCGTCCTGGCTTGTGATGGGATCTGGGATGTGATGAGCAATGAGGAGCTCTGTGAGTT
 TGTTAACTCTAGGCTTGGAGTGTGAGACGACTGGAGAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
 CATAAGGGAAGTCGAGATAACATGAGTATTGTGTTAGTTTGTCTTGCAAAATGCCCAAGGTCTCAGATG
 AAGCCGTGAAAAGAGATTTAGAGTTGGACAAGCACTTGGAAATCACGGGTGGAAGAATCATGCAGAAGTC
 TGGAGAGGAAGGAATGCCTGATCTTGCCATGTGATGCGCATTTTGTCTGCAGAAAATATCCCAAATTA
 CCTCCCGGGGAGGCCTCGCTGGCAAGCGCAATGTTATTGAAGCTGTTTATAGTAGACTTAATCCAAACA
 AAGCAAATGATGGGGCCTCCGAGGAAGCAGAGGAAGTGGATCACAGGGGAAATTTGGTGGAAAGCTCAG
 GCAAATGAGAGTTAACCATAGGGGCAACTACCGACAACCTGCTGGAGGAGATGCTGACTAGTTACAGGCTA
 GCTAAAGTAGAGGAGAAGAGAGCCCGGCTGGCCAGCTGCTGCAACTGCTTCTCGAACAGTGTGCTG
 GAAACCCAGTGGCAGTGCAGGAGAGACACTGAAAGTGGTCTGCTGAATTAGACAGCCCTAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001270619
- Insert Size:** 1398 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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

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]
Transcript Variant: This variant (2) contains an alternate 3' terminal exon compared to variant 1, which results in a longer isoform (2) with a distinct C-terminus compared to isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.