

Product datasheet for RN211341

Ppm1a (NM_017038) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ppm1a (NM_017038) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Ppm1a
 Synonyms: Pp2c1
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN211341 representing NM_017038
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGGAGCATTTTATAGACAAGCCAAAGATGAAAAAGCATAATGCCAGGGCCAGGGGAACGGTTGCGAT
 ACGGCCTAAGCAGCATGCAAGGTTGGCGAGTTGAAATGGAGGATGCACATACGGCTGTGATCGGTTTGCC
 AAGTGGACTTGAGACATGGTCATTCTTTGCTGTATATGATGGGCATGCTGTTTCTCAGGTTGCCAAATAC
 TGCTGTGAGCACTTGTTAGATCACATCACCAATAACCAGGATTTTAAAGGCTCTGCAGGAGCACCTCTG
 TGGAAAACGTAAGAACGGAATCAGAACAGGTTTTCTGGAGATTGATGAACACATGAGAGTTATGTCAGA
 GAAGAAACACGGTGCAGATAGAAGTGGGTCAACAGCTGTGGGTGTCTTAATTTCTCCCAACATACTTAT
 TTCATTAAGTGTGGGACTCAAGAGGTTTACTTTGTAGAAATAGAAAAGTTCACTTCTTCACTCAAGACC
 ATAAACCAAGTAATCCTCTGGAAAAGAACGAATTCAGAATGCAGGGGGCTCTGTGATGATTACGCGTGT
 CAATGGCTCTCTGGCTGTATCAAGAGCTCTGGGGATTTGATTACAAATGTGTCCATGGAAAAGTCCC
 ACAGAGCAGCTTGTCTCGCCAGAGCCTGAAGTCCATGATATTGAAAGTCTGAAGAAGATGACCAGTTCA
 TCATTCTTGATGTGATGGCATCTGGGACGTGATGGCAACGAAGAGCTCTGTGACTTTGTGATCCAG
 ACTTGAAGTCACTGATGACCTTGAGAAAAGTTGCAATGAAGTAGTCGACACCTGTTTGTATAAGGGAAGT
 CGAGACAACATGAGTGTGATTTTGTCTGCTTTCCAAACGCGCCTAAAGTCTCAGCAGAGCGGTGAAGA
 AGGAGGCAGAGCTGGACAAGTACCTGGAGAACAGAGTAGAAGAAATCATAAAGAAGCAGGGGGAAGGCGT
 CCCTGACTTAGTCCATGTGATGCGCACGTTAGCCAGTGAAGAACATCCCCAGCCTCCACCAGGGGTGAA
 CTGGCAAGCAAGCGGAATGTAATTGAAGCCGTTTACAATAGACTGAACCTTACAAAAACGACGACTG
 ATTCTGCGTCAACTGATGATATGTGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_017038
Insert Size:	1149 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).
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:	<u>NM_017038.1</u> , <u>NP_058734.1</u>
RefSeq Size:	1602 bp
RefSeq ORF:	1149 bp
Locus ID:	24666
UniProt ID:	<u>P20650</u>
Cytogenetics:	6q24
Gene Summary:	Enzyme with a broad specificity. Negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear export of the SMADs and termination of the TGF-beta-mediated signaling (By similarity). Dephosphorylates PRKAA1 and PRKAA2. 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]