

Product datasheet for RR211341

Ppm1a (NM_017038) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppm1a (NM_017038) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ppm1a
Synonyms: Pp2c1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211341 representing NM_017038
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGAGCATTTTATAGACAAGCCAAAGATGAAAAGCATAATGCCAGGGCCAGGGGAACGGTTGCGAT
ACGGCCTAAGCAGCATGCAAGGTTGGCGAGTTGAAATGGAGGATGCACATACGGCTGTGATCGGTTTGCC
AAGTGGACTTGAGACATGGTCATTCTTTGCTGTATATGATGGGCATGCTGGTTCTCAGGTTGCCAAATAC
TGCTGTGAGCACTTGTTAGATCACATCACCAATAACCAGGATTTTAAAGGCTCTGCAGGAGCACCCCTCTG
TGGAAAACGTAAGAACGGAATCAGAACAGGTTTTCTGGAGATTGATGAACACATGAGAGTTATGTCAGA
GAAGAAACACGGTGCAGATAGAAGTGGTCAACAGCTGTGGGTGTCTTAATTTCTCCCAACATACTTAT
TTCATTAAGTGTGGGACTCAAGAGGTTACTTTGTAGAAATAGAAAAGTTCACTTCTTCACTCAAGACC
ATAAACCAAGTAATCCTCTGGAAAAGAACGAATTCAGAAATGCAGGGGGCTCTGTGATGATTCAGCGTGT
CAATGGCTCTCTGGCTGTATCAAGAGCTTTGGGATTTTGATTACAAATGTGTCCATGGAAAAGTCCC
ACAGAGCAGCTTGTCTCGCCAGAGCCTGAAGTCCATGATATTGAAAGTCTGAAGAAGATGACCAGTTCA
TCATTCTTGCATGTGATGCATCTGGGACGTGATGGCAACGAAGAGCTCTGTGACTTTGTGAGATCCAG
ACTTGAAGTCACTGATGACCTTGAGAAAAGTTGCAATGAAGTAGTCGACACCTGTTTGTATAAGGGAAGT
CGAGACAACATGAGTGTGATTTTGTCTGCTTTTCAAACGCGCCTAAAGTCTCAGCAGAGCGGTGAAGA
AGGAGGCAGAGCTGGACAAGTACCTGGAGAACAGAGTAGAAGAAATCATAAAGAAGCAGGGGGAAGGCGT
CCCTGACTTAGTCCATGTGATGCGCACGTTAGCCAGTGAAGAACATCCCCAGCCTCCACCAGGGGTGAA
CTGGCAAGCAAGCGGAATGTAATTGAAGCGTTTACAATAGACTGAACCTTACAAAAACGACGACTG
ATTCTGCGTCAACTGATGATATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211341 representing NM_017038
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MGAFLDKPKMEKHNAQQQGNGLRYGLSSMQGWRVEMEDAHTAVIGLPSGLETWSFFAVYDGHAGSQQVAKY
 CCEHLLDHITNNDQDFKGSAGAPSVENVKNGIRTGFLEIDEHMRVMSEKKGADRSSTAVGVLISPHQTY
 FINCGDSRGLLCRNKRVHFFTDHKPSNPLEKERIQNAGGSVMIQRVNGSLAVSRALGDFDYKCVHGKGP
 TEQLVSPEPEVHDIERSEEDDQFIILACDGIWDVMGNEELCDFVRSRLEVTDLEKVCNEVVDTCLYKGS
 RDNMSVILICFPNAPKVSAAVKKEAELDKYLENRVEEIIKKQGEVDPDLVHVMRTLASENIPSLPPGGE
 LASKRNVIEAVYNRLNPYKNDTDSASTDDMW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

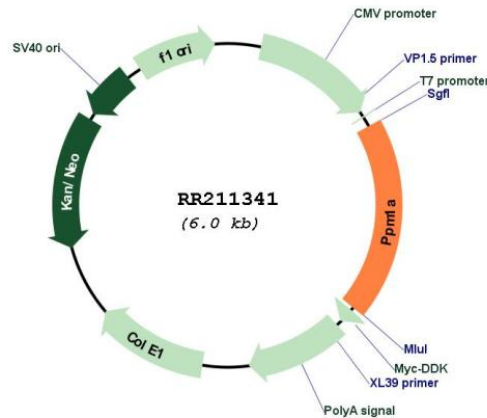
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_017038

ORF Size:	1146 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_017038.1 , NP_058734.1
RefSeq Size:	1602 bp
RefSeq ORF:	1149 bp
Locus ID:	24666
UniProt ID:	P20650
Cytogenetics:	6q24
MW:	42.4 kDa
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]