

Product datasheet for **RR216822**

Ppm1h (NM_001271079) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppm1h (NM_001271079) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppm1h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216822 representing NM_001271079
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTCACTCGGGTGAATCTGCCGTGGCCAATTCATGGCGGCATCATGGCTGGCAGCTCCGGCTCCG
 AGCACGGCGGCAGCGGCTGCGGAGGCTCGGACCTGCCCTGCGCTTCCCGTACGGCGGCCAGAGTTCCT
 CGGGCTGTCTCAGGATGAGGTGGAGTGCAGCGCAGACCACATCGCCCGCCCATCCTCATCTCAAGGAG
 ACCCGGGCGTGCCTGGGCCACGGGCTACGCAGAGGTTATTAATGCTGGAAAGAGCACACAAATGAGG
 ACCAAGCCAGCTGCGAGGTGCTCACAGTGAAGAAGAAAGTTGGGACCATTACTTCCACCCGAACAGAAA
 TTCCAAGCGAAGTTCATCCCTCCCAACGGGGAAGGCCTGCAGTTAAAGGAGAACTCTGAGTCTGAGGGC
 ATCTCTGCCACTACTGGTCCCTGTTTGTATGGCCACGCAGGCTCAGGTGCTGCTGTGGTGGCATCGCGCC
 TGCTGCAGCACCACATCACACAACAGCTGCAGGACATCGTGGAGATCCTGAAGAACTCCGCCATCCTTCC
 CCCGACCTGCCTAGGGGAGGAGCCAGAGAGCACGCCGGCCATGGCAGGACCCTAACCCGCGCAGCTCA
 CTGCGTGGAGGGTGGGTGCCCCGGCTCCCCAGCACACCACCCACGCGCTTCTTACGGAGAAGAAGA
 TTCTCATGAGTGTGGTTCATCGGGCCCTGGAGAGCGCCTTCAAGGAAATGGACCTTCAAATGAACG
 GGAGAGGAGTGCATATAATATATCCGGTGGCTGCACGGCCCTCATCGTGGTTTGCCTTCTGGGGAAGCTC
 TACGTGGCAAATGCAGGTGACAGCAGGGCCATAATCATCCGAAATGGAGAAATCATCCCCATGTCTTCCG
 AATTCACCCCTGAGACTGAGCGTCAGAGACTTCAGTACCTGGCGTTTATGCAGCCTCACTGTGGGAAA
 TGAGTTACACACTTGGAGTTTCCAAGGAGAGTACAGAGGAAAGAACTCGGGAAGAAGATGCTGTACCGG
 GACTTTAACATGACAGGCTGGGCATACAAAACCATTGAGGATGATGACTTGAAGTTTCCCCTTATATATG
 GAGAAGGCAAGAAGCCCGGGTAATGGCAACTATTGGAGTGACAAGGGGACTTGGGACCATGACCTGAA
 GGTTTCATGACTCCAACATCTACATAAAAACCATTCTGTCTTTCAGCTCCAGAGGTACAGAGTCTACGATCTC
 TCCAAATACGAGCACGGAGCGGATGACGTGCTGATCCTGGCTACTGATGACTCTGGGATGTCTTATCAA
 ATGAAGAAGTAGCGGAAGCAATCACTCAGTTTCTTCTAACTGTGATCCAGATGACCCTCACAGGTACAC
 ACTGGCAGCTCAGGACCTGGTATGCGTGCCCGAGGCGTCTGAAGGACCGAGGATGGCGGATATCAAAT
 GACCGACTGGGCTCAGGAGATGACATTTCTGTATACGTCATTCTTTAATACACGGAAACAACTGTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216822 representing NM_001271079
 Red=Cloning site Green=Tags(s)

MLTRVKSAVANFMGGIMAGSSGSEHGSGCGSDPLRFPYGRPEFLGLSQDEVECSADHIARPILILKE
 TRRLPWATGYAEVINAGKSTHNEDQASCEVLTVKKKVGITITSTPNRNSKRRSSLPNGEGLQKENSESEG
 ISCHYWSLFDGHAGSAAVVASRLLQHITQQLQDIVEILKNSAILPPTCLGEEPESTPAHGRTLTRAAS
 LRGGVGPSPSTPPTRFFTEKKIPHECLVIGALESAFKEMDLQIERERSAYNISGGCTALIVVCLLGKL
 YVANAGDSRAIIRNGEIIPMSSEFTPETERQLQYLAFMQPHLLGNEFTHLEFPRRVQRKELGKMLYR
 DFNMTGWAYKTIEDDLKFPLIYGEGKKARVMATIGVTRGLGDHDLKVHDSNIYIKPFLSSAPEVRVYDL
 SKYEHGADDVLILATDGLWDVLSNEEVAEAITQFLPNCDDPDRHYTLAAQDLVMRARGVLKDRGWIRISN
 DRLGSGDDISVYVIPLIHGNKLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3486_g10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271079

ORF Size: 1539 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

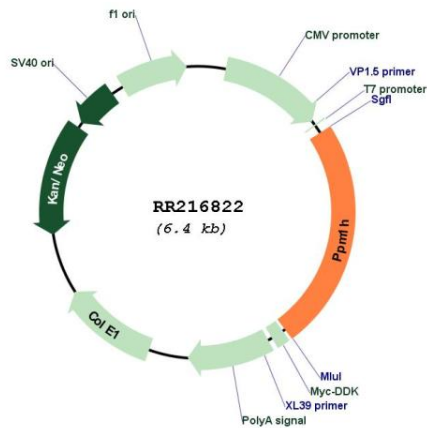
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
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_001271079.2](#), [NP_001258008.1](#)

RefSeq Size:	2794 bp
RefSeq ORF:	1542 bp
Locus ID:	314897
UniProt ID:	<u>Q5M821</u>
Cytogenetics:	7q22
MW:	56.4 kDa
Gene Summary:	Dephosphorylates CDKN1B at 'Thr-187', thus removing a signal for proteasomal degradation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR216822