OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC214622

PPM1E (NM_014906) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1E (NM_014906) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPM1E
Synonyms:	caMKN; CaMKP-N; CAMKPN; POPX1; PP2CH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214622 representing NM_014906
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGGCTGCATCCCTGAGGAGAAAACTTACCGGCGCTTCCTGGAGCTATTCCTGGGCGAGTTTCGCG
GACCGTGCGGCGGCGGCGAGCCGGAGCCGGAACCCGAACCCGAACCCGAACCCGAACCCGAGTCCGAGCC
CGAGCCCGAACCTGAACTGGTAGAAGCTGAGGCGGCCGAGGCTTCGGTAGAGGAACCCGGGGAGGAGGCG
GCCACGGTAGCCGCGACGGAGGAGGGGGACCAGGAGCAAGACCCGGAGCCCGAGGAGGAGGCGGCGGTTG
AGGGTGAGGAGGAGGAGGAGGGCGCGGCGACGGCGGCGGCAGCCCCGGGGCACTCGGCCGTGCCGCCGCC
GCCGCCCCAGCTGCCGCCTTTGCCCCCGCTCCCGCGACCGCTGTCAGAGCGCATCACCCGCGAGGAGGTG
GAGGGCGAAAGCCTGGACCTGTGCCTGCAGCAGCTCTACAAATATAATTGCCCTTCCTTTTTGGCTGCTG
CTTTAGCCAGAGCCACATCAGATGAAGTCCTTCAGAGTGATCTTTCTGCACATTATATCCCAAAGGAAAC
GGATGGCACAGAAGGGACTGTGGAGATTGAGACAGTGAAATTGGCCCGTTCTGTCTTCAGCAAACTACAC
GAGATTTGCTGCAGCTGGGTGAAAGACTTCCCCCTCCGCAGGAGACCCCAGCTTTATTATGAGACATCAA
TCCATGCCATCAAAAACATGCGCAGGAAAATGGAGGACAAACATGTCTGCATTCCTGACTTTAATATGCT
CTTCAACCTAGAGGACCAGGAAGAACAAGCTTACTTTGCAGTGTTTGATGGCCATGGGGGAGTAGATGCT
GCTATTTATGCCTCCATTCACCTCCACGTTAACTTAGTCCGCCAGGAGATGTTCCCCCATGATCCTGCTG
AGGCCCTGTGCAGGGCCTTCCGGGTCACTGATGAGCGGTTTGTGCAGAAAGCAGCCAGGGAGAGCTTAAG
ATGTGGGACCACAGGAGTGGTGACTTTCATCAGAGGCAACATGCTACATGTGGCCTGGGTGGGTGATTCC
CAGGTTATGCTTGTGAGAAAGGGCCAAGCTGTTGAACTAATGAAGCCACACAAACCAGACAGAGAGGATG
AAAAGCAGAGAATTGAGGCCCTTGGAGGTTGCGTAGTCTGGTTTGGTGCCTGGAGGGTGAATGGAAGTCT
GTCGGTTTCCAGAGCTATTGGAGATGCTGAACATAAGCCATATATCTGTGGGGATGCAGATTCTGCCTCC
ACTGTTCTGGATGGGACCGAAGACTACCTCATTCTGGCCTGTGATGGCTTCTATGACACCGTGAACCCTG
ATGAGGCAGTGAAAGTTGTGTCCGACCACCTGAAAGAGAATAATGGAGACAGCAGCATGGTTGCCCACAA
ATTAGTGGCATCAGCTCGTGATGCTGGGTCAAGTGATAACATCACGGTTATTGTGGTATTCCTGAGGGAC
ATGAACAAAGCTGTAAATGTTAGTGAGGAATCAGATTGGACAGAGAACTCTTTTCAAGGAGGGCAAGAAG
ATGGTGGGGATGATAAGGAGAATCATGGAGAGTGCAAACGCCCTTGGCCTCAGCACCAGTGCTCAGCACC
AGCCGACCTAGGCTATGATGGGCGTGTGGATTCATTCACTGATAGAACTAGCCTGAGCCCAGGGTCCCAA
ATCAACGTGCTGGAAGACCCAGGCTACCTAGATCTCACACAAATAGAAGCAAGCAAACCTCACAGTGCCC
AGTTTTTGCTACCAGTTGAGATGTTTGGTCCTGGTGCACCAAAGAAAGCAAATCTTATTAATGAGTTAAT
GATGGAGAAAAAATCAGTTCAGTCATCATTGCCTGAATGGAGTGGTGCTGGAGAGTTTCCCACTGCTTTC
AATTTGGGTTCAACAGGGGAGCAGATATACAGAATGCAGAGCTTGTCTCCTGTCTGTTCAGGGTTGGAAA
ATGAACAGTTCAAATCCCCGGGAAACAGAGTTTCTAGATTGTCTCATTTACGCCACCACTACTCAAAGAA
GTGGCACAGATTCAGGTTTAATCCAAAGTTTTATTCATTTCTCTCTGCTCAAGAGCCTTCCCACAAAATA
GGCACTAGCCTGTCCTCACTTACTGGAAGTGGGAAGAGAAATAGGATAAGAAGTTCTCTGCCATGGAGGC
AAAATAGTTGGAAAGGGTACAGTGAAAACATGAGGAAGCTCAGAAAGACTCATGATATTCCATGCCCAGA
TCTTCCTTGGAGCTATAAAATAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

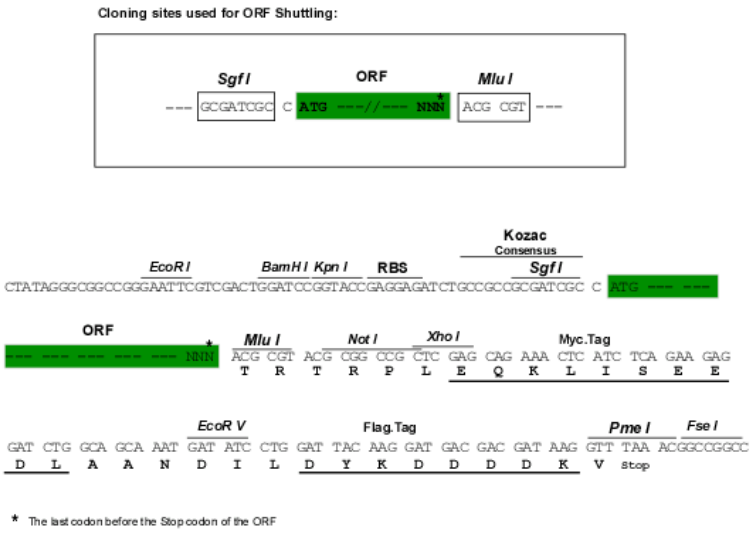
>RC214622 representing NM_014906
Red=Cloning site Green=Tags(s)

MAGCIPEEKTYRRFLELFLGEFRGPCGGGEPEPEPEPEPEPESEPEPEPELVEAEAAEASVEEPGEEA
ATVAATEEGDQEQDPEPEEEAAVEGEEEEEGAATAAAAPGHSAVPPPPPQLPPLPPLPRPLSERITREEV
EGESLDLCLQQLYKYNCPSFLAAALARATSDEVLQSDLSAHYIPKETDGTEGTVEIETVKLARSVFSKLH
EICCSWVKDFPLRRRPQLYYETSIHAIKNMRRKMEDKHVCIPDFNMLFNLEDQEEQAYFAVFDGHGGVDA
AIYASIHLHVNLVRQEMFPHDPAEALCRAFRVTDERFVQKAARESLRCGTTGVVTFIRGNMLHVAWVGDS
QVMLVRKGQAVELMKPHKPDREDEKQRIEALGGCVVWFGAWRVNGSLSVSRAIGDAEHKPYICGDADSAS
TVLDGTEDYLILACDGFYDTVNPDEAVKVVSDHLKENNGDSSMVAHKLVASARDAGSSDNITVIVVFLRD
MNKAVNVSEESDWTENSFQGGQEDGGDDKENHGECKRPWPQHQCSAPADLGYDGRVDSFTDRTSLSPGSQ
INVLEDPGYLDLTQIEASKPHSAQFLLPVEMFGPGAPKKANLINELMMEKKSVQSSLPEWSGAGEFPTAF
NLGSTGEQIYRMQSLSPVCSGLENEQFKSPGNRVSRLSHLRHHYSKKWHRFRFNPKFYSFLSAQEPSHKI
GTSLSSLTGSGKRNRIRSSLPWRQNSWKGYSENMRKLRKTHDIPCPDLPWSYKIE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014906

ORF Size: 2265 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: 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_014906.5

RefSeq Size: 6545 bp

RefSeq ORF: 2268 bp

Locus ID: 22843

UniProt ID: Q8WY54

Cytogenetics: 17q22

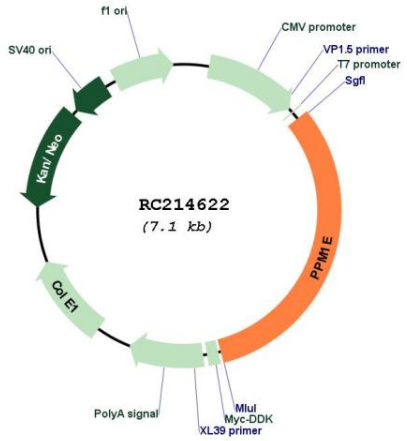
Domains: PP2C

Protein Families: Druggable Genome, Phosphatase

MW: 84.4 kDa

Gene Summary: This gene encodes a member of the PPM family of serine/threonine-protein phosphatases. The encoded protein is localized to the nucleus and dephosphorylates and inactivates multiple substrates including serine/threonine-protein kinase PAK 1, 5'-AMP-activated protein kinase (AMPK) and the multifunctional calcium/calmodulin-dependent protein kinases. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC214622