

## Product datasheet for **RG214622**

### PPM1E (NM\_014906) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1E (NM_014906) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPM1E
Synonyms:	caMKN; CaMKP-N; CAMKPN; POPX1; PP2CH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG214622 representing NM\_014906  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGGCTGCATCCCTGAGGAGAAAACCTACCGCGCTTCTGAGGCTATTCCTGGGCGAGTTTCGCCG  
 GACCGTGCAGCGCGCGGAGCCGGAGCCGGAACCCGAACCCGAACCCGAACCCGAACCCGAGTCCGAGCC  
 CGAGCCCGAACCTGAACTGGTAGAAGCTGAGGCGCGCAGGCTTCGGTAGAGGAACCCGGGAGGAGGCCG  
 GCCACGGTAGCCGCGACGGAGGAGGGGGACCAGGAGCAAGACCCGGAGCCCGAGGAGGAGCGCGGTTG  
 AGGGTGTAGGAGGAGGAGGGCGCGGCGACGGCGCGGCGAGCCCGGGGCACTCGGCCGTGCCCGCC  
 GCCGCCAGCTGCCGCTTTGCCCGCTCCCGCAGCCGCTGTCAGAGCGCATCACCCGCGAGGAGGTG  
 GAGGGCGAAAGCCTGGACCTGTGCCTGCAGCAGCTCTACAATAAATTGCCCTTCTTTTTGGCTGCTG  
 CTTTAGCCAGAGCCACATCAGATGAAGTCTTCAGAGTATCTTCTGCACATTATATCCAAAGGAAAC  
 GGATGGCACAGAAGGACTGTGGAGATTGAGACAGTGAATTTGGCCGTTCTGTCTTCAGCAAACACTACAC  
 GAGATTTGCTGCAGCTGGGTGAAAGACTTCCCCCTCCGCAGGAGACCCGAGCTTTATTATGAGACATCAA  
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 CTTCAACCTAGAGGACCAGGAAGAACAAGCTTACTTTGACGTGTTTGATGGCCATGGGGGAGTAGATGCT  
 GCTATTTATGCCTCCATTCACCTCCACGTTAACTTAGTCCGCCAGGAGATGTTCCCCCATGATCCTGCTG  
 AGGCCCTGTGCAGGGCCTCCGGGTCACTGATGAGCGGTTTGTCAGAAAAGCAGCCAGGGAGAGCTTAAG  
 ATGTGGGACCACAGGAGTGGTGACTTTCATCAGAGGCAACATGCTACATGTGGCCTGGGTGGGTGATTCC  
 CAGGTTATGCTTGTGAGAAAGGGCAAGCTGTTGAACTAATGAAGCCACAAAACCAGACAGAGAGGATG  
 AAAAGCAGAGAATTGAGGCCCTTGAGGTTGCGTAGTCTGGTTTGGTGCCTGGAGGTGAATGGAAGTCT  
 GTCGGTTTCCAGAGCTATTGGAGATGCTGAACATAAGCCATATATCTGTGGGGATGCAGATTCTGCCTCC  
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 ATCAACGTGCTGGAAGACCCAGGCTACCTAGATCTCACAAAATAGAAGCAAGCAAACCTCACAGTGCCC  
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 GATGGAGAAAAAATCAGTTCAGTCATCATTGCCTGAATGGAGTGGTGTCTGGAGAGTTTCCACTGCTTTC  
 AATTTGGGTTCAACAGGGGAGCAGATATACAGAAATGCAGAGCTTGTCTCCTGTCTGTTACAGGGTTGAAA  
 ATGAACAGTTCAAATCCCGGGAACAGAGTTTCTAGATTGTCTCATTTACGCCACCACTACTCAAAGAA  
 GTGGCACAGATTGAGTTAATCCAAAGTTTTATTCAATTTCTCTGCTCAAGAGCCTTCCACAAAATA  
 GGCCTAGCCTGTCTCACTTACTGGAAGTGGGAAGAGAAATAGGATAAGAAGTTCTCTGCCATGGAGGC  
 AAAATAGTTGAAAGGTTACAGTGAACATGAGGAAGCTCAGAAAGACTCATGATATCCATGCCCAGA  
 TCTTCTTGGAGCTATAAATAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG214622 representing NM\_014906  
Red=Cloning site Green=Tags(s)

```
MAGCIPEEKTYRRFLELFLGFRGPCGGGEPPEPEPEPEPEPEPEPEPEPEPEPEPELVEAEAAEASVEEPGEEA
ATVAATEEGDQEODPEPEEEEEAVEGEEEEEGAATAAAPGHSVAPPPPQLPPLPPLPRPLSERITREEV
EGESLDLCLQLYKYNCPFLAAALARATSDEVLQSDL SAHYIPKETDGTGEGTVEIETVKLARSVF SKLH
EICCSWVKDFPLRRRPQLYYETSIIHAIKNMRRKMEDKHVCIPDFNMLFNLEDQEEQAYFAVFDGHGGVDS
AIYASIIHLHVNLVRQEMFPHDPAEALCRAFRVTDERFVQKAARESLRCGTTGVVTFIRGNMLHVAWVGDS
QVMLVRKQGAVELMFKPHKPDREDEKQRIEALGGCVVWFGAWRVNGSLSVSRAIGDAEHKPYICGDADSAS
TVLDGTEDYLILACDGFYDTPNPDEAVKVVSDHLKENGDSSMVAHKLVASARDAGSSDNITIVVFLRD
MNKAVNVSEESDWTENSFQGGQEDGGDDKENHGECKRPWPQHQSAPADLGYDGRVDSFTDRTSLSPGSQ
INVLEDPGYLDLQIEASKPHSAQFLLPVEMFGPGAPKKANLINELMMEKKSQSSLPEWSGAGEFPTAF
NLGSTGEQIYRMSQLSPVCSGLENEQFKSPGNRVSRSLSHLRHHYSKKWHRFRFNPKFYSLSAQEP SHKI
GTSLSLTSLSGGRNRIRSSLPWRQNSWKGYS ENMRKLRKTHDIPCPDLPWSYKIE
```

TRTRPLE - GFP Tag - V

**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](#)

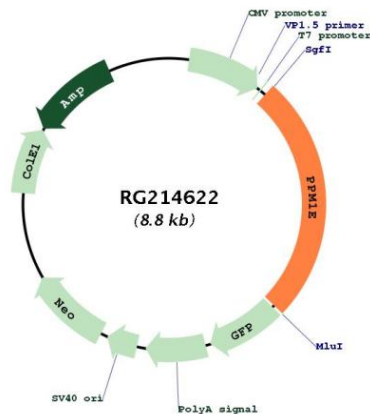
**Cytogenetics:** 17q22

**Domains:** PP2C

**Protein Families:** Druggable Genome, Phosphatase

**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 RG214622