

## Product datasheet for **RG223947**

### **PP4R1 (PPP4R1) (NM\_001042388) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PP4R1 (PPP4R1) (NM_001042388) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PP4R1
Synonyms:	MEG1; PP4(Rmeg); PP4R1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223947 representing NM\_001042388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACCTCTCGCTGCTTCAGGAGGACCTGCAGGAGGACGCAGACGGATTTGGTGTGGATGACTACA  
 GCTCAGAGTCTGATGTGATTATTATACCTTCAGCCCTGGACTTTGTCTCAAGATGAAATGTTGACGCC  
 CCTGGGGAGATTGGACAAGTATGCTGCAAGTGAGAACATATTTAACAGACAAATGGTGGCCCGGAGTTTG  
 CTCGATACCTTGAGGGAAGTCTGCGATGATGAAAGAGATTGTATTGCTGTTTTGGAAAGAATTAGCAGAT  
 TGGCCGATGATTCAGAACCAACTGTGAGAGCGGAGCTGATGGAACAGGTGCCTCACATCGCACTGTTTTG  
 TCAAGAAAACCGGCTTCAATACCATATGCTTTTTCAAATTTCTACTACCTATTGTGGTTAGATACCTT  
 GCAGATCAGAATAATCAGGTGAGGAAAACAAGTCAGGCAGCTTTGCTGGCTCTGTTGGAGCAGGAGCTCA  
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 CGTCTTATCCTCCCTAGGTTTTGTGAGATGTGCTGCGATTGCAGAATGTTTCACGTTTCGAAAAGGTCTGTG  
 CTGCCAATTTTGGAGATATTTGCAGTGTAGTTGGCCAGCAAGCTACTGAAGAAATGTTGCTGCCAGATT  
 TTTCCAGCTTTGTTCTGATAATGTATGGGGAGTCCGAAAGGCTTGTGCTGAATGCTTCATGGCGGTTTCA  
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 TAGAGCCCCACATTGATGATCCAGATGTTAAAGCACAAGTGAAGTGTGCTGCTCCGCTGCACACTCGTCTC  
 CAGCCTGGATGCACATGAAGAGACCATCAGTATAGAAAAGAGAAGTATTGCAAGATGAACTGGATATA  
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 GGAAAGGAGAACTAAAGTACAAGATGTTGTACCTCAGGCGTTGTTAGATCAGTATTTATCTATGACTGAC  
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 CGGCAAGCCTTTGCTTTGTCTGCCAGACTGTCATTGAGGATGACTGCCTTCCCATGGACCAGTTTGTCTG  
 TGCATCTCATGCCGATCTGCTAACCTTAGCAAATGACAGGGTTCTAACGTGCGAGTGTCTTGGCAA  
 GACATTAAGACAACTCTACTAGAAAAGACTATTTCTTGGCCTCTGCCAGCTGCCACCAGGAGGCTGTG  
 GAGCAGACCATCATGGCTCTTCAGATGGACCGTGACAGCGATGTCAAGTATTTTGAAGCATCCACCCTG  
 CCAGTACCAAAATCTCCGAAGATGCCATGAGCACAGCGTCTCAACCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223947 representing NM\_001042388  
 Red=Cloning site Green=Tags(s)

MADLSLLQEDLQEDADGFGVDDYSSSDVIIIPSALDFVSQDEMLTPLGRLDKYAASENIENRQMVARS  
 LDTLREVCDDERDCI AVLERISRLADDSEPTVRAELMEQVPHIALFCQENRPSIPYAFSKFLLPIVVRYL  
 ADQNNQVRKTSQAALLALLEQELIERFDVETKVCPLIELTAPDSNDDVKTEAVAIMCKMAPVMGKDITE  
 RLILPRFCCEMCCDCRMFHVHRKVCANFNGDICSVVGQQATEEMLLPRFFQLCSDNVWGVKACAECFMAVS  
 CATCQEIIRRTKLSALFINLISDPSRWVRQAAFQSLGPFISTFANPSSSGQYFKEESKSSEEMSVENKRT  
 RDQEAPEVDQVRPEDTPSDLVSNSSVILENTMEDHAAEASGKPLGEISVPLDSSLLCTLSSESHQEAAS  
 NENDKKPGNYKSMRLRPEVGTTSQDSALLDQELYNFHFWRTPLEIDLIELEQNSGGKPSPEGPEESEE  
 GPVSSPNITMATRKELEEMIENLEPHIDDPDKAQVEVLSAALRASSLDAHEETISIEKRSDLQDELDI  
 NELPNCKINQEDSVPLISDAVENMDSTLHYIHSDDLNNSSFSPDEERRTKVQDVVPQALLDQYLSMTD  
 PSRAQTVDTIEIAKHCAYSLPGVALTLGRQNWHLRETYETLASDMQWKVRRRLAFSIELAVILGDQLTA  
 ADLVPIFNGFLKDLDEVRI GVLKHLHDFLKLHIDKRRELYQLQEFVLDNSRNWRFRAELAEQLILL  
 ELYSPRDVYDYLRIALNLCADKVSSVRWISYKLVSEMVKKLHAATPPTFGVDL INELVENFGRCPKWSG  
 RQAFVVFVQTVIEDDCLPMDQFAVHLMPHLLTLANDRVPNVRVLLAKTLRQTLLLEKDYFLASASCHQEA  
 EQTIMALQMDRSDVKYFASIH PASTKISEDAMSTASSTY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

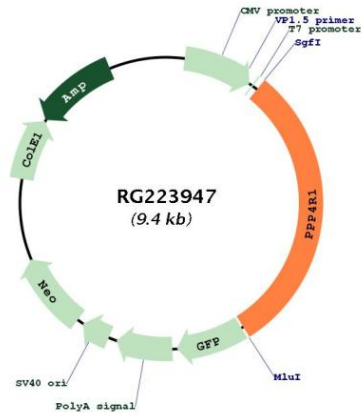


ACCN: NM\_001042388

ORF Size: 2850 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001042388.3</a>
<b>RefSeq Size:</b>	3980 bp
<b>RefSeq ORF:</b>	2853 bp
<b>Locus ID:</b>	9989
<b>UniProt ID:</b>	<a href="#">Q8TF05</a>
<b>Cytogenetics:</b>	18p11.22
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Gene Summary:</b>	This gene encodes one of several alternate regulatory subunits of serine/threonine protein phosphatase 4 (PP4). The protein features multiple HEAT repeats. This protein forms a complex with PP4RC. This complex may have a distinct role from other PP4 complexes, including regulation of HDAC3 (Zhang et al., PMID: 15805470). There is also a transcribed pseudogene on chromosome 20. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RG223947