

## Product datasheet for MC212940

### PPP4r2 (NM\_182939) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP4r2 (NM_182939) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP4r2
Synonyms:	BE691708; C230060M08Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC212940 representing NM_182939 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGTCGAGAGGCTGCAGGAGGCGCTGAAAGATTTTGAGAAGAGAGGGAAAAAGGAAGTTTGCCTG  
TACTGGATCAGTTTCTCTGTGCATGTAGCTAAAAGTGGAGAAACAATGATTCAGTGGTCCCAATTTAAAGG  
CTATTTCAATTTCAAAGTGGAGAAAGTGGATGGATGATTCAGAATTCAGCTCCTGAACCAAGAGGTCTCT  
CCCAATCCTAATGTTGAATATATCCCTTTGATGAAATGAAGGAAAGAATACTGAAAATTGTCACCTGGAT  
TTAATGGTATCCCTTTTACTATTCAGCGCTATGTGAATTGCTAACGGATCCGAGAGAAACTATACAGG  
AACAGACAAGTTTCTCAGAGGAGTAGAGAAGAATGTGATGGTTGTTAGCTGCGTTTGCCATCCTCAGAG  
AAGAACAATTCTAATAGCTTAAATAGAATGAATGGTGTATGTTTCTGGAAACTCACCAAACTATACTG  
ACAGGTCTAATAAAACGGGCTGGAACACCTAGGCCACTTAATCGACCAAGCTTTCTTTGTCAGCCCC  
CTTGACAACAAATGGTTTGCCTGAGAGCACAGATAGCAAAGATTTCTGAGCTGCAGCTAAGTGAAGAGAAA  
GGCCACAGTGATCTTCAGCCTCTGAATCAGAAGTTTCTTACTGAGCCCTGTTAAAAATAACATCCAG  
ATGAAGATGCTGTGGAGCTGAGGAACATGAGGTGAAAAGACTGAAGTTTGACAAAAGAGGTGACGTCAG  
AGAGACAGCTAGCAAACGGTGTCTGGTGAAGTCTCTCAGTTAGAGCAGAGGAAACGGAAACAGCAGCT  
CCCCCTCCTGACAAGGACAGAGAAAGTCAACAGGACAGCACTGTACAGAAGAGGAGGAGGAGGAGGAGG  
AAGAAGAGGAAGAGGAGGAGGAAGAATCGTTTATGACACCAAGAGAAATGGTCCCAGAAAGAAAAATCA  
AGAAAAGGAATCTGATGACGCCTTAACTGTGAATGAAGAGACTTCAGAGGAGAGCCATCAGATGGAAGGC  
TCTGGTGTCTCCAGCTCAGACAGACTCCACTTCAGAAAGGAGTGACAGTGACAGGGCCCTCAAGGAGTG  
GCTCTGACTGCCTGGAGACAGGAGTCAAGAGGGCCCCCTTCCAGTAAGACTGGAGAGAGTGTGTCAGT  
GCCGTCGTCATGGAGAGTGAGGAAGCCGAGAAGTCAAGATGACCAATGGAGCAAGACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_182939
<b>Insert Size:</b>	1254 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_182939.4</a> , <a href="#">NP_891984.1</a>
<b>RefSeq Size:</b>	3641 bp
<b>RefSeq ORF:</b>	1254 bp
<b>Locus ID:</b>	232314
<b>UniProt ID:</b>	<a href="#">Q0VGB7</a>
<b>Cytogenetics:</b>	6 D3
<b>Gene Summary:</b>	Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers. Its interaction with the SMN complex leads to enhance the temporal localization of snRNPs, suggesting a role of PPP4C in maturation of spliceosomal snRNPs. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on 'Ser-140' (gamma-H2AFX) generated during DNA replication and required for DNA double strand break repair (By similarity). Mediates RPA2 dephosphorylation by recruiting PPP4C to RPA2 in a DNA damage-dependent manner. RPA2 dephosphorylation is required for the efficient RPA2-mediated recruitment of RAD51 to chromatin following double strand breaks, an essential step for DNA repair (By similarity). [UniProtKB/Swiss-Prot Function]