

Product datasheet for **MC218614**

PPP4R2 (BC110429) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp4r2 (BC110429) 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:	>BC110429 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACGTCGAGAGGCTTCAGGAGGCGCTGAAAGATTTTGAGAAGAGAGGGAAAAAGGAAGTTTGCCTG
TACTGGATCAGTTTCTCTGTGCATGTAGCTAAAAGTGGAGAAACAATGATTCAGTGGTCCCAATTTAAAGG
CTATTTCAATTTCAAAGTGGAGAAAGTGGATGGATGATTTCAAGAACTTCAGCTCCTGAACCAAGAGGTCTC
CCCAATCCTAATGTTGAATATATCCCTTTGATGAAATGAAGGAAAGAATACTGAAAATTGTCACCTGGAT
TTAATGGTATCCCTTTTACTATTAGCGGCTATGTGAATTGCTAACGGATCCGAGAGAAACTATACAGG
AACAGACAAGTTTCTCAGAGGAGTAGAGAAGAATGTGATGGTTGTTAGCTGCGTTTGTCCATCCTCAGAG
AAGAACAATTCTAATAGCTTAAATAGAATGAATGGTGTATGTTTCTGGAAACTCACCAAACTATACTG
ACAGGTCTAATAAAACGGGCTGGAACACCTAGGCCACTTAATCGACCAAGCTTTCTTTGTGAGCCCC
CTTGACAACAAATGGTTTGCCTGAGAGCACAGATAGCAAAGATTCTGAGCTGCAGCTAAGTGAAGAGAAA
GGCCACAGTGATCTTTCAGCCTCTGAATCAGAAGTTTCTTACTGAGCCCTGTTAAAAATAACATCCAG
ATGAAGATGCTGTGGAGCTGAGGAACATGAGGTGAAAAGACTGAAGTTTGACAAAGAAGGTGACGTCAG
AGAGACAGCTAGCAAACGGTGTCTGGTGAAGTCTCTCAGTTAGAGCAGAGGAAACGGAAACAGCAGCT
CCCCCTCCTGACAAGGACAGAGAAAGTCAACAGGACAGCACTGTACAGAAAGAGGAGGAGGAGGAGG
AAGAAGAGGAAGAGGAGGAGGAAGAATCGTTTATGACACCAAGAGAAATGGTCCCAGAAAGAAAAATCA
AGAAAAGGAATCTGATGACGCCTTAACTGTGAATGAAGAGACTTCAGAGGAGAGCCATCAGATGGAAGGC
TCTGGTGTGTCTCAGCTCAGACAGACTCCACTTCAGAAAGGAGTGACAGTGCAGGGCCCTCAAGGAGTG
GCTCTGACTGCCTGGAGACACAGGAGTCAAGAGGGCCCCCTTCCAGTAAGACTGGAGAGAGTGTGTGAGT
GCCGTCGTCCATGGAGAGTGAGGAAGCCACAGAAGTACAGATGACCAATGGAGCAAGACTAA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGAT AAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	BC110429
Insert Size:	1254 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	BC110429 , AAI10430
RefSeq Size:	2959 bp
RefSeq ORF:	1253 bp
Locus ID:	232314
Cytogenetics:	6 D3
Gene Summary:	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]