

Product datasheet for **MC221838**

PPP4R3A (NM_211355) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP4R3A (NM_211355) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP4R3A
Synonyms:	1110034C04Rik; BC064465; mKIAA2010; Smek1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221838 representing NM_211355
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCGACACCCGACGGCGGGTGAAGGTCTACACGCTCAACGAGGACCGGCAGTGGGACGACCGGGGTA
 CTGGCCATGTGTCTCCGGCTACGTGGAGAGGCTGAAGGGCATGTCCCTGCTCGTCAGGGCGGAGAGCGA
 CGTTCTCTTCTAGAGTCCAAAATAAATCCTAACACTGCATACCAGAAAACAAGGATACTCTGATT
 GTGTGGTCTGAAGCAGAAAATTGACTTGGCCCTTAGCTTTCAAGAAAAAGCTGGATGCGATGAAATTT
 GGGAGAAAATATGTCAGGTTCAAGGAAAGGACCTTCAGTGGACATCACTCAGGACCTGGTAGATGAATC
 TGAAGAGGAGCGATTTGATGATATGTCCTCACCAGGTTTAGAATTGCCGTCATGTGAGTTAAGTCGACTT
 GAGGAAATTCAGAGCTTGTGGCATCATCTTTACCTTCCCCCTCCGACGTGAGAACTCGCACTAGCAC
 TGGAAAATGAGGGTTATATTAAGGCTTTTAGAGCTTTTTCATGTGTGAGGATTTGGAAAACATTGA
 AGGACTGCACCCTTATATGAAATTTAAAGGGATCTTCTCTGAATCGAACTGCTCTTTTTGAAGTT
 ATGTTCTCTGAGGAATGATAATGGACGTCATTGGATGCTTGGAAATGACCCAACCTTTATCACAACCAC
 GTAACACAGGGAATTTTAACAAAAACAGCCAAGTTAAAGAAGTAATCCCATATCAGATCCTGAGCT
 GAAACAAAAAATTCATCAGACATACAGATTCAGTATATAACAAGATATGGTTCTCCCTACCCCTTCACTC
 TTCGAAGAAAACATGTTATCAACTTCACTCCTTTATCTTTTTCAACAAGGTAGAAATCGTTGGTATGT
 TACAGGAAGATGAAAAATTTCTGACAGATTTGTTTGCACAACACAGATGAAGCAACAGATGAGGAAAA
 AAGACAAGAAATGGTTAACTTTTTAAAAGAATTTGTGCATTTTCTCAAACGCTACAACCCCAAAACAGA
 GATGCTTTTTTCAAGACTTTGTCAAATATGGGCATATTACCAGCTTTAGAAGTCATCCTTGGCATGGTACG
 ATACACAGGTGCGAAGTCTGCTACGGATATATCTCATACTTGGTTGAATATAATCCATCCATGGTACG
 AGAGTTTGTGTCAGGAGGCACAACAGAATGATGATGATATTTTGTCTCATCAACCTCATTATAGAACAT
 ATGATTTGTGATACAGATCCCGAGCTTGGAGGGCAGTCCAACCTTATGGGCTGCTTCAACTTTAGTTG
 ACCCAGAGAACATGCTAGCCACTGCCAATAAAACAGAAAAGACTGAATTTCTGGGTTTCTTCTACAAGCA
 CTGTATGCATGTTCTCACTGCTCCCTTACTAGCAAATACAACAGAAAGACAAGCCTAGTAAAGATGATTTT
 CAACTGCGCAGTTACTAGCACTTGTATTGGAATTGCTAACATTTTGTGTGGAGCACCATACCTACCACA
 TAAAGAATATATTCAACAAGGACATTTCTCGCAGAGTGTAGTTCTTATGGCTCCAAGCATGCTTT
 CTTGGCATTATGTCCCTCCGTTTTAAGAGAAAAATCATTGGATTAAGATGAATTTTATAACCGCTAC
 ATAATGAAAAGTTTTTTATTTGAACCTGTAGTCAAAGCATTCTCAACAACGGATCTCGTTACAATCTGA
 TGAATCCGCCATAATAGAAATGTTGAATTTATTAGAGTGAAGATATAAAATCATTAACTGCCCATGT
 AATTGAGAATTATTGAAAGCACTAGAAGATGTAGATTATGTACAGACGTTTAAAGGATTAATTTGAGG
 TTTGAACAGCAAAGAGAAAGGCAAGACAACCCCAACTTGATAGCATGCGGTCTATCTTGAGGAATCATC
 GATATCGACGAGATGCCAGAACTAGAAGACGAAGAAGAGATGTGGTTCAACACAGATGAAGATGACAT
 GGAAGATGGAGAAGCTGTGGTGTCTCCATCTGACAAAACGAAGAATGACGATGATATTATGGATCCAATA
 AGTAAATTTATGGAAAGGAAGAAATTGAAAGAAAGTGAAGAGAAGGAGGTGCTTCTGAAAACATACTTT
 CTGGACGACAGACCCCAAGTTTCAAACCTTCTTGTCCAGTGGGACAAAGACTAACCTCACCAGCCAGTC
 ATCCGCAACAAGCCTGCCTGGTTCTCCAGGGTCACTGGCTCCCGGGCTCTCCGGGCTCCTGGATCC
 GTCCCTAAGAGTACATCTCAGACGCGAGCTATTACCACAAGGGAGGACTCGTGGGCTGTGGTAGATTATC
 CTGATGATGATGAAGATGATGATGAGGATGAAGACAAGGAAGACACACTACCAGTGTCAAAGAAAGCAAA
 ATTTGAGTCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_211355
Insert Size: 2463 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:	NM_211355.2 , NP_997594.1
RefSeq Size:	4555 bp
RefSeq ORF:	2463 bp
Locus ID:	68734
UniProt ID:	Q6P2K6
Cytogenetics:	12 E
Gene Summary:	<p>Regulatory subunit of serine/threonine-protein phosphatase 4. May regulate the activity of PPP4C at centrosomal microtubule organizing centers. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on 'Ser-140' (gamma-H2AFX) generated during DNA replication and required for DNA DSB repair (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes isoform 1.</p>