

Product datasheet for **MC221946**

PPP4R3A (NM_001160214) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP4R3A (NM_001160214) 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: >MC221946 representing NM_001160214
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCGACACCCGACGGCGGGTGAAGGTCTACACGCTCAACGAGGACCGGCAGTGGGACGACCGGGGTA
 CTGGCCATGTGTCTCCGGCTACGTGGAGAGGCTGAAGGGCATGTCCCTGCTCGTCAGGGCGGAGAGCGA
 CGTTCTCTTCTAGAGTCCAAAATAAATCCTAACACTGCATACCAGAAAACAAGGATACTCTGATT
 GTGTGGTCTGAAGCAGAAAATTGACTTGGCCCTTAGCTTTCAAGAAAAAGCTGGATGCGATGAAATTT
 GGGAGAAAATATGTCAGGTTCAAGGAAAGGACCTTCAGTGGACATCACTCAGGACCTGGTAGATGAATC
 TGAAGAGGAGCGATTTGATGATATGTCCTCACCAGGTTTAGAATTGCCGTATGTGAGTTAAGTCGACTT
 GAGGAAATTCAGAGCTTGTGGCATCATCTTTACCTTCCCCCTCCGACGTGAGAACTCGCACTAGCAC
 TGGAAAATGAGGGTTATATTAAGGCTTTTAGAGCTTTTCATGTGTGAGGATTTGGAAAACATTGA
 AGGACTGCACCCTTATATGAAATTTAAAGGGATCTTCTCTGAATCGAACTGCTCTTTTTGAAGTT
 ATGTTCTCTGAGGAATGATAATGGACGTCATTGGATGCTTGGAAATATGACCCAACCTTTATCACAACCAC
 GTAACACAGGGAATTTTAACAAAACAGCCAAGTTAAAGAAGTAATCCCATATCAGATCCTGAGCT
 GAAACAAAAATTCATCAGACATACAGATTCAGTATATAACAAGATATGGTTCTCCCTACCCCTCAGTC
 TTCGAAGAAAACATGTTATCAACTTCACTCCTTTATCTTTTTCAACAAGGTAGAAATCGTTGGTATGT
 TACAGGAAGATGAAAAATTTCTGACAGATTTGTTTGCACAACACAGATGAAGCAACAGATGAGGAAAA
 AAGACAAGAAATGGTTAACTTTTTAAAAGAAATTTGTGCATTTTCTCAAACGCTACAACCCAAAAACAGA
 GATGCTTTTTCAAGACTTTGTCAAATATGGGCATATTACCAGCTTTAGAAGTCATCCTTGGCATGGTACG
 ATACACAGGTGCGAAGTCTGCTACGGATATTTCTCATACTTGGTTGAATATAATCCATCCATGGTACG
 AGAGTTTGTATGCAGGAGGCACAACAGAATGATGATGAAGTAAGAAGTTAACAGAGCAAAAAATAACC
 AGCAAGGATATTTTGTCTCATCAACCTCATTATAGAACATATGATTTGTGATACAGATCCCGAGCTTGGAG
 GGGCAGTCCAACCTATGGGCTGCTTCAACTTTAGTTGACCCAGAGAACATGCTAGCCACTGCCAATAA
 AACAGAAAAGACTGAATTTCTGGGTTCTTCTACAAGCACTGTATGCATGTTCTCACTGCTCCCTACTA
 GCAATACAACAGAAAGACAAGCCTAGTAAAGATGATTTTCAAACGCGCAGTTACTAGCACTGTATTGG
 AATTGCTAACATTTTGTGTGGAGCACCATACCTACCACATAAAGAAGTATATTATCAACAAGGACATTCT
 TCGCAGAGTGTAGTTCTTATGGCCTCCAAGCATGCTTTCTTGGCATTATGTGCCCTCCGTTTTAAGAGA
 AAAATCATTGGATTAAGATGAATTTATAACCGCTACATAATGAAAAGTTTTTTATTTGAACCTGTAG
 TCAAAGCATTCTCAACAACGGATCTCGTTACAATCTGATGAACTCCGCCATAATAGAAATGTTTGAATT
 TATTAGAGTGGAAGATATAAAATCATTAACTGCCCATGTAATTGAGAATTATTGGAAAGCACTAGAAGAT
 GTAGATTATGTACAGACGTTTAAAGGATTAATAATGAGGTTTGAACAGCAAGAGAAAGGCAAGCAACC
 CCAAACCTTGATAGCATGCGGTCTATCTTGGGAATCATCGATATCGACGAGATGCCAGAACACTAGAAGA
 CGAAGAAGAGATGTGGTTCAACACAGATGAAGATGACATGGAAGATGGAGAAGCTGTGGTGTCTCCATCT
 GACAAAACGAAGAATGACGATGATATTATGGATCCAATAAGTAAATTTATGGAAAGGAAGAAATGAAAG
 AAAGTGAAGAGAAGGAGGTGCTTCTGAAAATAATCTTCTGGACGACAGAGCCCAAGTTTCAAACCTTC
 CTTGCCAGTGGGACAAAGACTAACCTCACCAGCCAGTCATCCGCAACAAGCCTGCCTGGTTCTCCAGGG
 TCACCTGGCTCCCGGGCTCTCCGGGCTCTCTGGATCCGTCCTAAGAGTACATCTCAGACGGCAGCTA
 TTACCACAAAGGAGGACTCGTGGGCTGGTAGATTATCCTGATGATGATGAAGATGATGATGAGGATGA
 AGACAAGGAAGACACACTACCAGTGTCAAAGAAAGCAAAATTTGAGTCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001160214
Insert Size: 2502 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_001160214.1 , NP_001153686.1
RefSeq Size:	4594 bp
RefSeq ORF:	2502 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 (2) uses an alternate in-frame donor splice site at one of the coding exons compared to variant 1, resulting in a longer isoform (2) with an internal protein segment not found in isoform 1.</p>