

## Product datasheet for **MC219405**

### PPP2R1A (NM\_016891) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1A (NM_016891) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R1A
Synonyms:	6330556D22Rik; PP2A; PR65
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219405 representing NM\_016891  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCTGCCGACGGTGACGATTCGCTCTATCCTATTGCGGTGCTCATAGATGAACTCCGCAATGAGG  
 AGTTTCAGCTTCGCTCAATAGTATCAAGAAGCTCTCCACAATTGCCTTGCCCTTGGGGTTGAACGGAC  
 CAGAAGTGAGCTCCTGCCCTTCCTTACAGATACCATTTATGATGAAGATGAGGTCTCTTGGCCTTGGCT  
 GAACAGCTGGGAACCTTCACAACCTTGGTGGGAGGGCCTGAGTATGTGCACTGTCTGCTGCCACCCCTTG  
 AGTCACTGGCCACAGTGAAGAGACAGTGTGCGAGACAAGGCGGTAGAATCCTTGGGGCCATCTCTCA  
 TGAGCACTCACCTCCGATCTAGAGGCTCACTTTGTGCCCTGGTAAAGCGGCTGGCGGGTGAGACTGG  
 TTCACCTCCCGCACCTCGGCCTGTGGTCTCTTCTCAGTTTGTACCCCGAGTATCCAGTGCCGTGAAGG  
 CAGAACCTCGACAGTACTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGCCGCTGCCTC  
 CAAGCTGGGGGAATTTGCCAAGTACTGGAGCTGGACAATGTCAAGAGTGAGATCATTCCATGTTCTCT  
 AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGTGGCAGTGAGGCATGTGTGAATATTGCCCAGC  
 TTCTGCCACAGGAGGACCTGGAGGCCTTAGTGATGCCACCTTGCAGACAGCTGTGAGGACAAGCTTGG  
 GCGTGTTCGCTACATGGTGGCCGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCTGAGATCACCAAG  
 ACAGATCTGGTGCCTGCCCTCCAGAACCTGATGAAGGACTGTGAGGCCGAGGTGAGGGCCGACGCTCCC  
 ACAAGGTCAAAGAGTTCTGTGAAAATCTCTCAGCTGACTGCCGGGAGAATGTGATCATGACTCAGATCTT  
 GCCCTGCATCAAGGAGCTTGTGTCAGATGCCAACCAACATGTCAAGTCAGCACTGGCTTCAGTCATCATG  
 GGCCTCTCTCCATTCTGGGCAAAGACAACACCATCGAACACCTTTGCCCTGTCTTGGCTCAGCTGA  
 AGGATGAGTGTCCCTGAAGTCCGACTGAATATCATCTCCAACCTGGATTGTGTGAACGAGGTGATTGGCAT  
 CAGGCAGCTCTCTCAGTCCCTGCTTCTGCCATCGTGGAAGTGAAGATGCCAAGTGCGGAGTGCGG  
 CTGGCCATCATTGAATACATGCCTCTGCTGGTGGACAGCTTGGTGTGGAATTTTTTATGAGAACTAA  
 ACTCTTTGTGATGGCCTGGCTAGTGGATCATGTCTATGCTATCCGTGAGGCTGCCACCAGCAACCTTAA  
 GAAATTAGTAGAGAAGTTCGGGAAGGAGTGGGCCATGCCACTATCATCCCAAGGTCTTAGCCATGTCT  
 GGAGACCCTAACTACCTGCACCGAATGACTACACTCTTCTGCATCAATGTGTTGTCTGAGGTCTGTGGAC  
 AGGATATACCACCAAGCACATGCTGCCACAGTTCTTCGTATGGCAGGGGACCCAGTTGCCAATGTCCG  
 CTTCAATGTGGCCAAGTCACTCCAGAAGATAGGACCCATTCTTGATAACAGCACCTGCAGAGTGAAGTC  
 AAGCCCATCTGGAGAAGCTGACCCAGGACCAGGATGTGGATGTCAAGTACTTTGCCCAGGAGGCTCTGA  
 CTGTTCTCTCTTGCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_016891

**Insert Size:** 1770 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:**

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\\_016891.3](#), [NP\\_058587.1](#)

**RefSeq Size:** 2256 bp

**RefSeq ORF:** 1770 bp

**Locus ID:** 51792

**UniProt ID:** [Q76MZ3](#)

**Cytogenetics:** 17 A3.2

**Gene Summary:** The PR65 subunit of protein phosphatase 2A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit (PubMed:10100624). Upon interaction with GNA12 promotes dephosphorylation of microtubule associated protein TAU/MAPT (By similarity). Required for proper chromosome segregation and for centromeric localization of SGO1 in mitosis (By similarity).[UniProtKB/Swiss-Prot Function]