

## Product datasheet for **MR208409**

### **Ppp1r16a (NM\_033371) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppp1r16a (NM_033371) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppp1r16a
Synonyms:	2900084E10Rik; Mypt3; R75527
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208409 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGAGCACCTGGAGCTGCTGGCAGAGATGCCCATGGTAGGCAGGATGAGTACCCAGGAGCGCCTGA  
 AGCATGCCAGAAGCGAGCTGCCAGCAGGTAAGATGTGGGCCAGGCTGAGAAGGAGGCTCACAGCAA  
 GAAGGGCCATGGGGAGCGACCATGGAAGGAGGTGGCTGGCCTCAGGCCTCGGAAGCATGTCTCTCCCT  
 CCCAGCGTTGCCCTTCTGGAGGCTGCTGCCGAAACGACTTGGAGGAAGTCCGCCAGTTCCTTACCAGTG  
 GGGTTAGCCCCAACCTGGCCAATGAAGATGGCTTACTGCACTGCACCAAGTGTGATTGACGACTTCCA  
 AGAGATGGCACAGCAGCTCCTGGACGCTGGGGCTGATGTCAATGCTCGAGACAGTGTGCTGGACACCT  
 CTGCATGCTGCAGCTACCTGTGGCCATCTGCATCTGGTGAACCTCTTATTTACGTTGGTGCAGATCTCC  
 TTGCAGTCAATTCGATGGGAATATGCCCTACGACCTGTGTGAGGACGCACAGACGCTGGATTGCCCTTGA  
 GACTGCCATGGCCAACCGAGGTATCACCAGGAGGGCATTGAGGAGGCCCGGGCAGTCCAGAGCTGTGC  
 ATGCTGAATGACCTCCAGAACCGCTGCAAGCTGGGGCCAACCTCAGTGACCTTTGGATCATGGGGCTA  
 CTCTGCTGCACATCGCCGCTGCTAATGGGTTCACTGAGGTGGCTACCTGCTGCTGGAGCAAGGCCCGAG  
 CCTGAGCGCTAAGGACCATGATGGCTGGGAGCCTCTGCATGCTGCGGCTTACTGGGGCCAGGTACACCTG  
 GTAGAATTGCTTGTGGCACATGGGGCTGATCTGAATGGAAAATCTCTGGTGGACGAGACCCCTCGATG  
 TATGTGGTGTGAGGAGGTGAGAGCCAACTGCTGGAGCTCAAGCACAAGCAAGATGCACTCCTGCGGGC  
 CCAGGGCCGCCAGCGCTCCCTGCTGCGCCGCGTACCTTAGTGCAGGCAGCCGTGGGAAGTGGTGA  
 CGAGTGAAGCTGACACATCGCACCAACCTGTACCGCAAGGAGCATGCCAAGAGGCCATTGTGTGGCAGC  
 AGCCGCCACCCACAGTCCAGAACCTTAGAGGATGAGGACAGGCAGACAGCAGCTGAGTCCGGCTGCA  
 GCCCCCGGAGGACGATGGTCTGAGGTGGCCAGACCACACAATGGCCAAGTAGGGGCCCCCGGGGAGA  
 CACCTGTACTCCAAGCGTCTAGATCGGAGTGTCTCCTATCATCTGAGTCTGAGGAGAACAGTGGCCCTG  
 ATGCCCTCGTCCGGGACAAGGCCACCACACACTGGCAGAACTGAAACGCCAGCGAGCGGCTGCAAAGCT  
 TCAGCGACCTGCCCTGAAGGGCTGAGACTTTTGGCCTGGCCTGTCTGTTGATGCTGGGACCTCCAG  
 CCTGACTGTGGCTTCAAGCAATTGGGGACCCGCCCTGCTCAAGCTCACTGCTCCCTCGGAGGAGCGT  
 CTGTGGAGAAGAGGCCGTGTGCTTGTCTCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208409 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEHELLELAEMPMVGRMSTQERLKHAKRRAQQVKMWAQAEKEAHSKKGHGERPWKEVAGLRPRKHVLF  
 PSVALLEAAARNDL EEVRQFLTSGVSPNL ANEDGLTALHQCCIDDFQEMAQQLLDAGADVNARDSECWTP  
 LHAATCGHLHLVELLISRGADLLAVNSDGNMPYDLCEDAQTLDCL ETAMANQGITQEGIEEARAVPELC  
 MLNDLQNRLQAGANLSDPLDHGATLLHIAANGFSEVATLLLEQGASLSAKDHDGWEPLHAAAYWGQVHL  
 VELLVAHGADLNGKSLVDETPLDVCGDEEVRAKLELKHKQDALLRAQGRQRSLRRRTSSAGSRGKVV  
 RVSLTHRTNLYRKEHAQEAIWVQQPPPT SPEPLEDEDRTDAELRLQPPEDDGPEVARPHNGQVGA  
 PGRHLYSKRLDRSVSYHLSPEENSAPDALVRDKAHTLAELKRQRAAAKLQRPAPPEGPETFEPLSVDAGTSQ  
 PDCGFSTIGDPPLLKLTAPSEEASVEKRPCLLM

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_033371

ORF Size: 1575 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_033371.1](#)

RefSeq Size: 2675 bp

RefSeq ORF: 1575 bp

Locus ID: 73062

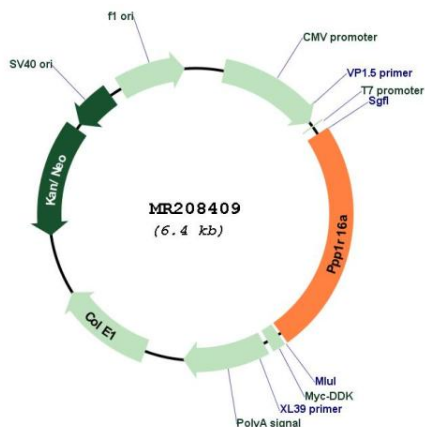
UniProt ID: [Q923M0](#)

**Cytogenetics:** 15 36.25 cM

**MW:** 57.5 kDa

**Gene Summary:** Inhibits protein phosphatase 1 activity toward phosphorylase, myosin light chain and myosin substrates.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208409