

## Product datasheet for MR202089

### Pym1 (NM\_001170869) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pym1 (NM\_001170869) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pym1  
**Synonyms:** A030010B05Rik; Pym; Wibg  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202089 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGACTCCCTATGTAAGTACGAGACCGGGCGCAAGTACATTGCCTCAACACAGAGACCCGACGGGA  
 CGTGGCGAAAGCAGCGGAGGGTCAAAGAAGGATACGTGCCCAAGAGGAGGTCCCAGTCTATGAAAAACA  
 GTATGTGAAGTTTTCAAGAGTAAACCAGAACTCCCCAGGGCTGAGCCCTGAGGCCACACACCGGTC  
 ACCCCATCCAGACTGAAGGTGGTGAACAGGCCTCTCCAAGACAGCCAAACGAAACCTGAAGCGGAAGG  
 AGAAGAGGCGGCAGCAACAGGAGAAAGAAGCAGAGGCCTTGAGCAGGACTCTTGATAAGGTGTCTCTGGG  
 AGACACAGCCCAGATACCTAGTGCTCTCAAGGCCCCAGGCCACGCCTTAGCTGCCTCTGATCCATCC  
 GACTCTGCTGCCACCACAGAGAAAGCAAGAAGATCAAGAACCTGAGGAAGAAGCTTCGGCAGGTGGAGG  
 AGCTGCAGCAACGCATCCAGGCCGGGAGGTGACGCCAGCCAGCAGAGAACAGCTGGAGAAGCTGGCTCG  
 ACGGAGGGTTCTGGAGGAGGAGCTGGAGGACTTGAGTTGGCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR202089 protein sequence  
 Red=Cloning site Green=Tags(s)

MATPYVTDETGGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVFFKSKPELPPGLSPEATTPV  
 TPSRPEGGETGLSKTAKRNLKRKEKRRQQEKEAEALSRTLDKVSLGDTAQIPALQGPQATPLAASDPS  
 DSAATTEKAKKIKNLRKKLRQVEELQRIQAGEVSQPSREQLKARRRVLEEELEDLELGL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001170869

**ORF Size:** 609 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\\_001170869.2](#), [NP\\_001164340.1](#)

**RefSeq Size:** 1165 bp

**RefSeq ORF:** 609 bp

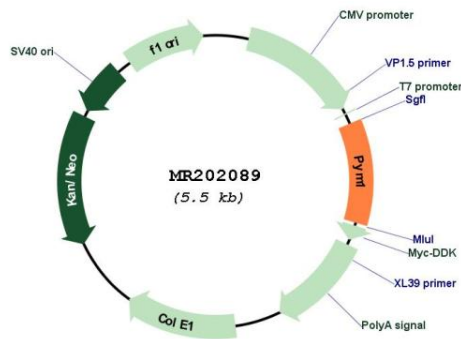
**Locus ID:** 78428

**UniProt ID:** [Q8CHP5](#)

**Cytogenetics:** 10 D3  
**MW:** 22.7 kDa

**Gene Summary:** Key regulator of the exon junction complex (EJC), a multiprotein complex that associates immediately upstream of the exon-exon junction on mRNAs and serves as a positional landmark for the intron exon structure of genes and directs post-transcriptional processes in the cytoplasm such as mRNA export, nonsense-mediated mRNA decay (NMD) or translation. Acts as an EJC disassembly factor, allowing translation-dependent EJC removal and recycling by disrupting mature EJC from spliced mRNAs. Its association with the 40S ribosomal subunit probably prevents a translation-independent disassembly of the EJC from spliced mRNAs, by restricting its activity to mRNAs that have been translated. Interferes with NMD and enhances translation of spliced mRNAs, probably by antagonizing EJC functions (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202089