

Product datasheet for MR218272

Pym1 (NM_030100) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pym1 (NM_030100) 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: >MR218272 representing NM_030100
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACCGCCAGCACCCCCGAGGCCACGGGGACAGGCAAGTACATTGCCTCAACACAGAGACCCGACG
 GGACGTGGCGAAAGCAGCGGAGGGTCAAAGAAGGATACGTGCCCCAAGAGGAGGTCCAGTCTATGAAAA
 CAAGTATGTGAAGTTTTCAAGAGTAAACCAGAACTTCCCCAGGGCTGAGCCCTGAGGCCACCACACCG
 GTCACCCCATCCAGACCTGAAGGTGGTGAACAGGCTCTCCAAGACAGCCAAACGAAACCTGAAGCGGA
 AGGAGAAGAGGGCGCAGCAACAGGAGAAAGAAGCAGAGGCCTTGAGCAGGACTCTTGATAAGGTGTCTCT
 GGGAGACACAGCCAGATACCTAGTGCTCTCCAAGGCCCCAGGCCACGCCTCTAGCTGCCTCTGATCCA
 TCCGACTCTGCTGCCACCACAGAGAAAGCAAGAAGATCAAGAACCTGAGGAAGAAGCTTCGGCAGGTGG
 AGGAGCTGCAGCAACGCATCCAGGCCGGGGAGGTGAGCCAGCCAGCAGAGAACAGCTGGAGAAGCTGGC
 TCGACGGAGGGTTCTGGAGGAGGAGCTGGAGGACTTGAGTTGGGCCTG

A**CGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218272 representing NM_030100
 Red=Cloning site Green=Tags(s)

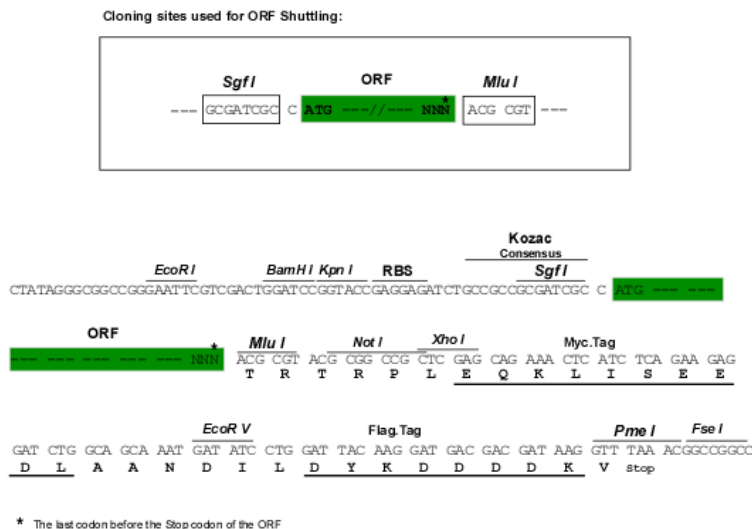
METASTPEATGTGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVKFFKSKPELPPGLSPEATTP
 VTPSRPEGGETGLSKTAKRNLKRKEKRRQQQEKEAEALSRITDKVSLGDTAQIPSAIQGPATPLAASDP
 SDSAATTEKAKKIKNLKKLRQVEELQQRIQAGEVSQPSREQLKLARRRVLEEELEDLELGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_030100

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030100.4](#), [NP_084376.2](#)

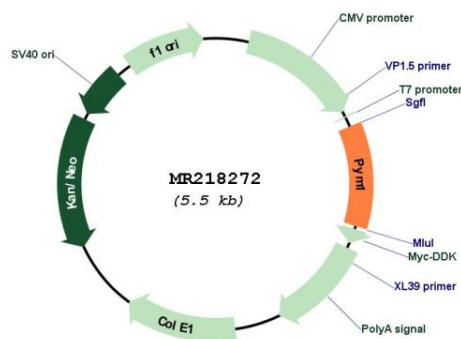
RefSeq Size: 1186 bp

RefSeq ORF: 612 bp

Locus ID: 78428
 UniProt ID: [Q8CHP5](#)
 Cytogenetics: 10 D3
 MW: 23.1 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 MR218272