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Product datasheet for MC225592

Pym1 (NM_001253705) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pym1 (NM_001253705) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pym1
Synonyms:	A030010B05Rik; Pym; Wibg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225592 representing NM_001253705 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAAACCGCCAGCACCCCCGAGGCCACGGGGACAGGCAAGTACATTGCCTCAACACAGAGACCCGACG GGACGTGGCGAAAGCAGCGGAGGGTCAAAGAAGGATACGTGCCCCAAGAGGAGGTCCCAGTGTGCGTGGT TAGGCTTAACAAGGGGTTTTTAATGGGTTCCTACACAAGTATAGCATATTATGCCGTGGAGTTCAGGGAT GAATCGTCTGGGCCCGAAAGAAATGGAAGGAGGGACAACGGTCTCGGGAGAGGAAGGAGCTGGGCTTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001253705
Insert Size:	279 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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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_001253705.1, NP_001240634.1
RefSeq Size:	1324 bp
RefSeq ORF:	279 bp
Locus ID:	78428
Cytogenetics:	10 D3
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] Transcript Variant: This variant (4) uses an alternate splice site that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (4) has a distinct and shorter C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.