

Product datasheet for **MC222372**

Pml (NM_178087) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pml (NM_178087) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pml
Synonyms:	1200009E24Rik; AI661194; Trim19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222372 representing NM_178087
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATG**GAAACTGA**ACCAGTTTCCGTGCAGAAAGTACCTGCACCCCTGGATCTCCCTGTCGACAACAGGACT
 CTGCCCTGACCCACGCCACCATGCCTCCCCAGAGGAACCTCCGAAGACTATGAACACAGCCAAAG
 CCCTGCAGAGCAAGCCATACAGGAGGAATTTAGTTTTCTGCGCTGCCGAGCTGCCAGGCCAAAGCCAAG
 TGCCCCAAACTGCTGCCTTGCTGCACACGCTGTCTCCGGATGCCTGGAGGCGCCTGGCCTGCAGTGCC
 CCATCTGCAAGGCTCCTGGGCAGGCCGATGCTAATGGGGAGGCCCTGGATAACGTGTTCTTCGAGAGCT
 GCAGCGGCGCCTGGCGGTGTTCCGGCAGATCGTGGATGCTCAGGCTGCGTGCACCCGCTGCAAAGGCTTG
 GCCGACTTCTGGTGTTCGAGTGTGAACAGCTCATTTGCAGCAAGTGCTTGAAGCACACCAGTGGTACC
 TCAAGCATGAGGCCCGGCCCTGGTGTATCTCCGCGACAATTCAGTGAGCAGCTTCTCGACAGTACGCC
 CAAGTCCAATATCTTCTGCTCCAATACCAACCACCGCAACCTGCGCTGACTGACATCTACTGCCGAGGC
 TGCGCCAAGCCTCTGTGTGCACATGCGCGCTCCTGGACCGCAACCACAGCCATCTCCATTGCGATATTG
 GTGAGGAGATTAGCAGTGGCATGAGGAACTAGGCACCATGACACAGACTCTGGAGGAGCAGGGCAGAAC
 CTTGACAGTGCCCATGCACAGATGTGCTCAGCTATAGGACAGCTGGACCACGCACGCGCAGACATTGAG
 AAGCAGATCCGCGCACGCGTGCGCCAGGTGGTAGACTACGTGCAGGCTCAGGAGCGCGAGCTGCTCGAGG
 CGGTGAATGACCGCTACCAGCGCGACTACCAGGAAATAGCTGGCCAGCTGAGTGCCTGGAAGCTGTGCT
 GCAGCGCATCCGCACTAGTGGGGCGCTGGTCAAGAGGATGAAGCTCTATGCTCCGACCAGGAGGTGCTG
 GATATGCACAGCTTTCTGCGCAAGGCACTCTGTAGCTTGCGCCAGGAGGAGCCCCAGAACCAGAAAGTCC
 AGCTGCTCACCAGAGGTTTCGAGGAGTTCAAGCTGTGCCTGCAGGACTTCATCTCCTGCATACCCAGAG
 GATAAATGCAGCTGTAGCCAGCCAGAGGCGAGCCAGCAATCAACCAGAGGCGAGCCAGCACTCACCCAGTG
 ACAACCAGCACGCTGAGGACCTTGAGCAGCCAAAGAAGTGCAGAGTGTACAGGCTCAGGCCCTAGAGC
 TGTCTAAGACCAACCTGTGGCTATGGTAAAAACAGTGCCTGGAGCACACCCTGTACCAGTGTATGCCTT
 TTCAATGCAAGGCCCCACCTACAGAGAGGAGGCTTCTCAGACAGTCGGCTCCATGAAGAGGAAAGTGTCC
 CACGAAGATTGCTCCAGGAAGATCATCAAGATGGAGTCCACAGAGGAGAACGAGGACAGGTTGGCCACAA
 GCTCCCCGAGCAGTCTGGCCAGCACTTTCAAGGCCACCTCCCCTCCCCTATCGGATGGGACTTCCAA
 CCCTGAGAGCACCGTCCCTGAAAAAAGATCCTCCTGCCCAACAACAATCATGTTACCAGTGACACAGGG
 GAAACAGAGGAGCGAGTTGTGGTGATCAGCAGCTCAGAGGATTCGGACACCGAGAATCTGCTCCTCCACG
 AGTTGGACGATAGCAGCAGTGAAGTCCAGCAGCCTGCAGCTGGAGGGCCCCAATCCCTCAAGGCCTTGA
 TGAGAGCCTCGCCGAACCCCACTTAGAAGACAGGACCCTGGTTTTCTTTGACCTCAAGATTGACAATGAA
 ACCCAGAAAAATTAGCCAGCTGGCCGCGGTGAACCGGAAAGCAAGTTCGGTGTGCTCATCCAGCCCGAGG
 CCTTCAGTGTCTACTCCAAGCTGTCTCCCTGGAGGCGGGGCTCCGGCACTTCTCAGCTTCTCACCAC
 CATGCACCGTCCCCTCTGGCGTGTCTAGGCTGTGGGGGCGGGGACTCCCCATCTTCTCCAGACCCTG
 AGTGATATTAACAAGCTGTGGGAATCCAGGACACCATCTCAGGTTTCTTGGCCGTGCTGCCCTCATCC
 GGAACGCATACCCGGCGCTAGCAGCTTCAAACCTGGGAACCTAGCCAAGACCTACCTGGCGAGAAACAT
 GAGCGAACGCAGCGCTCTGGCTTCTGTGCTGGCCATGAGGGACTTGTGCTCCTTCTGAGATCTCCCA
 GGACTGCGCTGGCCAGCATATCTACTCCTTTAGTAGCTTGCAGTGTGTTTCTCCCTGCAGCCCTAA
 TTCAGGCCAGCGTCTGCCACAGTCCGAGGCCCGCTTGGCCCTCCACAATGTGAGCTTTGTAGAGTT
 ACTGAATGCATATCGACCAACAGGCAAGAAGGCTTGAAGAAGTATGTCCACTATCTGAGCCTGCAGACC
 ACCCGTTGTCTCGTCGGCTTCCACCAAGTTGCCAATTCCTGCAGGCTTTCAGCACCATGGAAG
 GACTGTTGGAAGGCCATGCCCTGCTGGGGCAGAAGGCAAGCTGAAAGTAAGGGATGCCTGGCC**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_178087
Insert Size: 2658 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:	<ol style="list-style-type: none">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_178087.4 , NP_835188.2
RefSeq Size:	5378 bp
RefSeq ORF:	2658 bp
Locus ID:	18854
UniProt ID:	Q60953
Cytogenetics:	9 31.63 cM
Gene Summary:	<p>Functions via its association with PML-nuclear bodies (PML-NBs) in a wide range of important cellular processes, including tumor suppression, transcriptional regulation, apoptosis, senescence, DNA damage response, and viral defense mechanisms. Acts as the scaffold of PML-NBs allowing other proteins to shuttle in and out, a process which is regulated by SUMO-mediated modifications and interactions. Positively regulates p53/TP53 by acting at different levels (by promoting its acetylation and phosphorylation and by inhibiting its MDM2-dependent degradation). Regulates phosphorylation of ITPR3 and plays a role in the regulation of calcium homeostasis at the endoplasmic reticulum. Regulates RB1 phosphorylation and activity. Acts as both a negative regulator of PPARGC1A acetylation and a potent activator of PPAR signaling and fatty acid oxidation. Regulates translation of HIF1A by sequestering MTOR, and thereby plays a role in neoangiogenesis and tumor vascularization. Regulates PER2 nuclear localization and circadian function. Cytoplasmic PML is involved in the regulation of the TGF-beta signaling pathway. Required for normal development of the brain cortex during embryogenesis. Plays a role in granulopoiesis or monopoiesis of myeloid progenitor cells. May play a role regulating stem and progenitor cell fate in tissues as diverse as blood, brain and breast. Shows antiviral activity towards lymphocytic choriomeningitis virus (LCMV) and the vesicular stomatitis virus (VSV).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) represents the longest transcript and it encodes the longest protein (isoform 2).</p>