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Product datasheet for RC212067

PML Protein (PML) (NM_033239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PML Protein (PML) (NM_033239) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PML
Synonyms:	MYL; PP8675; RNF71; TRIM19
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

ORF Nucleotide Sequence:

>RC212067 representing NM_033239
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCTGCACCCGCCCGATCTCCGAGGCCCCAGCAGGACCCCGCCCGGCCCCAGGAGCCCACCATGC
CTCCCCCCGAGACCCCCTCTGAAGGCCGCCAGCCCAGCCCCAGCCCCAGCCCTACAGAGCGAGCCCCCGC
TTCGGAGGAGGAGTTCCAGTTTCTGCGCTGCCAGCAATGCCAGGCGGAAGCCAAGTGCCCGAAGCTGCTG
CCTTGTCTGCACACGCTGTGCTCAGGATGCCTGGAGGCGTCGGGCATGCAGTGCCCCATCTGCCAGGCGC
CCTGGCCCCTAGGTGCAGACACACCCGCCCTGGATAACGTCTTTTTCGAGAGTCTGCAGCGGCGCCTGTC
GGTGTACCGGCAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGC
TTTGAGTGCGAGCAGCTCCTCTGCGCCAAGTGCTTCGAGGCACACCAGTGGTTCCTCAAGCACGAGGCCC
GGCCCCTAGCAGAGCTGCGCAACCAGTCGGTGCGTGAGTTCCTGGACGGCACCCGCAAGACCAACAACAT
CTTCTGCTCCAACCCCAACCACCGCACCCCTACGCTGACCAGCATCTACTGCCGAGGATGTTCCAAGCCG
CTGTGCTGCTCGTGCGCGCTCCTTGACAGCAGCCACAGTGAGCTCAAGTGCGACATCAGCGCAGAGATCC
AGCAGCGACAGGAGGAGCTGGACGCCATGACGCAGGCGCTGCAGGAGCAGGATAGTGCCTTTGGCGCGGT
TCACGCGCAGATGCACGCGGCCGTCGGCCAGCTGGGCCGCGCGCGTGCCGAGACCGAGGAGCTGATCCGC
GAGCGCGTGCGCCAGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCTGTGGACGCGC
GGTACCAGCGCGACTACGAGGAGATGGCCAGTCGGCTGGGCCGCCTGGATGCTGTGCTGCAGCGCATCCG
CACGGGCAGCGCGCTGGTGCAGAGGATGAAGTGCTACGCCTCGGACCAGGAGGTGCTGGACATGCACGGT
TTCCTGCGCCAGGCGCTCTGCCGCCTGCGCCAGGAGGAGCCCCAGAGCCTGCAAGCTGCCGTGCGCACCG
ATGGCTTCGACGAGTTCAAGGTGCGCCTGCAGGACCTCAGCTCTTGCATCACCCAGGGGAAAGATGCAGC
TGTATCCAAGAAAGCCAGCCCAGAGGCTGCCAGCACTCCCAGGGACCCTATTGACGTTGACCTGCCCGAG
GAGGCAGAGAGAGTGAAGGCCCAGGTTCAGGCCCTGGGGCTGGCTGAAGCCCAGCCTATGGCTGTGGTAC
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TGTCTCCAATACAACGACAGCCCAGAAGAGGAAGTGCAGCCAGACCCAGTGCCCCAGGAAGGTCATCAAG
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CCAAGGCAGTCTCACCACCCCACCTGGATGGACCGCCTAGCCCCAGGAGCCCCGTCATAGGAAGTGAGGT
CTTCCTGCCCAACAGCAACCACGTGGCCAGTGGCGCCGGGGAGGCAGAGGAACGCGTTGTGGTGATCAGC
AGCTCGGAAGACTCAGATGCCGAAAACTCGTGCATGGAGCCCATGGAGACCGCCGAGCCACAGTCCTCGC
CAGCCCACTCCTCGCCAGCCCACTCCTCGCCAGCCCACTCCTCGCCAGTCCAGTCTCTGCTGAGAGCACA
AGGAGCCTCCAGCCTGCCCTGTGGCACATACCACCCCCCAGCTTGGCCTCCCCACCAGCCCGCTGAGCAG
GCTGCCACCCCCGATGCTGAGCCTCACAGCGAGCCTCCTGATCACCAGGAGCGCCCTGCCGTCCACCGTG
GGATCCGCTACCTGTTGTACAGAGCACAGAGAGCCATCCGCCTTCGCCATGCCCTCCGCTTGCACCCTCA
ATTGCATCGGGCCCCTATTCGGACTTGGTCTCCCCATGTGGTCCAAGCCAGCACTCCTGCCATCACAGGG
CCCCTCAACCATCCTGCCAATGCCCAGGAACATCCTGCCCAGCTGCAAAGGGGCATCAGCCCACCCCACC
GGATACGAGGGGCTGTGCGATCCCGCAGCCGCTCCCTCCGGGGCTCCTCCCATTTATCCCAGTGGCTCAA
CAACTTTTTTGCCCTCCCCTTCTCCTCCATGGCTTCCCAGCTTGACATGTCTTCCGTGGTGGGGGCAGGG
GAAAGCAGAGCCCAGACTCTTGGAGCAGGTGTTCCCCCTGGGGACTCTGTCAGAGGCTCCATGGAGGCCT
CTCAAGTCCAAGTGCCTCTGGAAGCCTCTCCAATTACATTCCCACCACCCTGTGCCCCAGAAAGGCCCCC
CATCAGCCCAGTCCCAGGCGCCCGTCAAGCAGGCCTC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

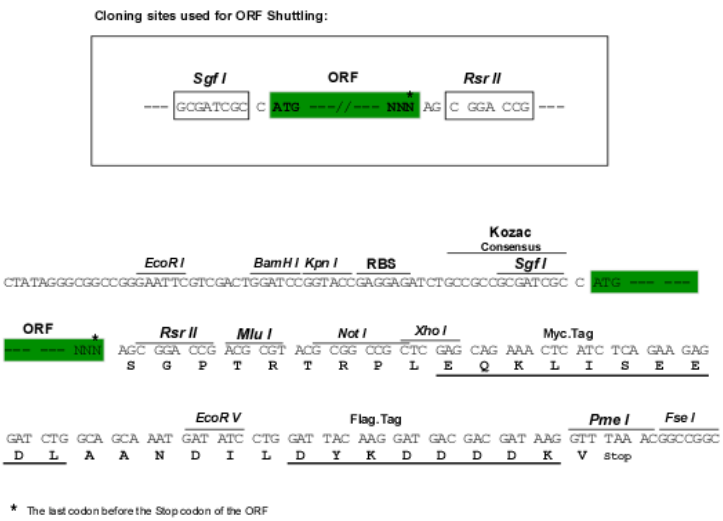
>RC212067 representing NM_033239
Red=Cloning site Green=Tags(s)

MEPAPARSPRPQQDPARPQEPTMPPPETPSEGRQPSPSPSPTERAPASEEEFQFLRCQQCQAEAKCPKLL
PCLHTLCSGCLEASGMQCPICQAPWPLGADTPALDNVFFESLQRRLSVYRQIVDAQAVCTRCKESADFWC
FECEQLLCAKCFEAHQWFLKHEARPLAELRNQSVREFLDGTRKTNNIFCSNPNHRTPTLTSIYCRGCSKP
LCCSCALLDSSHSELKCDISAEIQQRQEELDAMTQALQEQDSAFGAVHAQMHAAVGQLGRARAETEELIR
ERVRQVVAHVRAQERELLEAVDARYQRDYEEMASRLGRLDAVLQRIRTGSALVQRMKCYASDQEVLDMHG
FLRQALCRLRQEEPQSLQAAVRTDGFDEFKVRLQDLSSCITQGKDAAVSKKASPEAASTPRDPIDVDLPE
EAERVKAQVQALGLAEAQPMAVVQSVPGAHPVPVYAFSIKGPSYGEDVSNTTTAQKRKCSQTQCPRKVIK
MESEEGKEARLARSSPEQPRPSTSKAVSPPHLDGPPSPRSPVIGSEVFLPNSNHVASGAGEAEERVVVIS
SSEDSDAENSCMEPMETAEPQSSPAHSSPAHSSPAHSSPVQSLLRAQGASSLPCGTYHPPAWPPHQPAEQ
AATPDAEPHSEPPDHQERPAVHRGIRYLLYRAQRAIRLRHALRLHPQLHRAPIRTWSPHVVQASTPAITG
PLNHPANAQEHPAQLQRGISPPHRIRGAVRSRSRSLRGSSHLSQWLNNFFALPFSSMASQLDMSSVVGAG
ESRAQTLGAGVPPGDSVRGSMEASQVQVPLEASPITFPPPCAPERPPISPVPGARQAGL

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

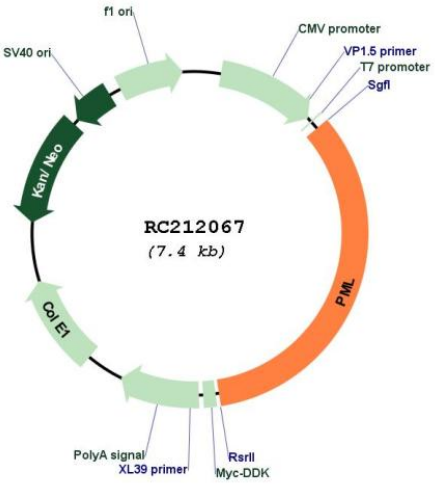
Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

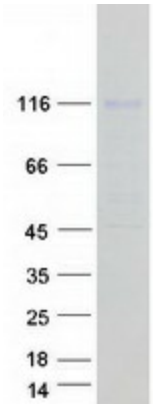
Plasmid Map:



ACCN:	NM_033239
ORF Size:	2487 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_033239.3
RefSeq Size:	3088 bp
RefSeq ORF:	2490 bp
Locus ID:	5371
UniProt ID:	P29590

Cytogenetics:	15q24.1
Domains:	zf-B_box, RING
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer, Ubiquitin mediated proteolysis
MW:	90.5 kDa
Gene Summary:	The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This phosphoprotein localizes to nuclear bodies where it functions as a transcription factor and tumor suppressor. Its expression is cell-cycle related and it regulates the p53 response to oncogenic signals. The gene is often involved in the translocation with the retinoic acid receptor alpha gene associated with acute promyelocytic leukemia (APL). Extensive alternative splicing of this gene results in several variations of the protein's central and C-terminal regions; all variants encode the same N-terminus. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified PML protein (Cat# [TP312067]). The protein was produced from HEK293T cells transfected with PML cDNA clone (Cat# RC212067) using MegaTran 2.0 (Cat# [TT210002]).