

Product datasheet for **SC128164**

PML Protein (PML) (NM_033244) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PML Protein (PML) (NM_033244) Human Untagged Clone
Tag:	Tag Free
Symbol:	PML Protein
Synonyms:	MYL; PP8675; RNF71; TRIM19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128164 sequence for NM_033244 edited (data generated by NextGen Sequencing)

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ATGGAGCCTGCACCCGCCGATCTCCGAGGCCCCAGCAGGACCCCGCCGGCCCCAGGAG
CCCACCATGCCTCCCCCGAGACCCCTCTGAAGGCCGCCAGCCAGCCCGCCAGCCCCAGC
CCTACAGAGCGAGCCCCCGCTTCGGAGGAGGAGTTCCAGTTTCTGCGCTGCCAGCAATGC
CAGGCGGAAGCCAAGTCCCCGAAGCTGCTGCCTGTCTGCACACGCTGTGCTCAGGATGC
CTGGAGGCGTCGGGCATGCAGTGCCCATCTGCCAGGCCCTGGCCCTAGTGCGAGAC
ACACCCGCCCTGGATAAAGTCTTTTTTCGAGAGTCTGCAGCGGCGCCTGTGGTGTACCGG
CAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGC
TTTGAGTGCAGCAGCTCCTCTGCGCAAGTGCTTCGAGGCACACCAGTGGTTCTCAAG
CACGAGGCCCGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCTGGACGGC
ACCCGCAAGACCAACAACATCTTCTGCTCAACCCCAACCACCGCACCCCTACGCTGACC
AGCATCTACTGCCGAGGATGTTCCAAGCCGCTGTGCTGCTCGTGCAGCCTCTTGACAGC
AGCCACAGTGAGCTCAAGTGCAGCATCAGCGCAGAGATCCAGCAGCGACAGGAGGAGCTG
GACGCCATGACGCAGGCGCTGCAGGAGCAGGATAGTGCCTTTGGCGCGGTTACGCGCAG
ATGCACGCGGCCCTCGGCCAGCTGGGCCGCGCGGTGCCGAGACCGAGGAGCTGATCCGC
GAGCGCGTGCGCCAGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCT
GTGGACGCGCGGTACCAGCGCGACTACGAGGAGATGGCCAGTCGGCTGGGCCGCCTGGAT
GCTGTGCTGCAGCGCATCCGCACGGGCAGCGCGCTGGTGCAGAGGATGAAGTGCTACGCC
TCGGACCAGGAGGTGCTGGACATGCACGGTTTCTGCGCCAGGCGCTCTGCCGCTGCGC
CAGGAGGAGCCCCAGAGCCTGCAAGCTGCCGTGCGCACCGATGGCTTCGACGAGTTCAAG
GTGCGCCTGCAGGACCTCAGCTCTTGCATCACCCAGGGGAAAGATGCAGCTGTATCCAAG
AAAGCCAGCCAGAGGCTGCCAGCACTCCAGGGACCCTATTGACGTTGACCTGCCCGAG
GAGGCAGAGAGAGTGAAGGCCAGGTTTCAGGCCCTGGGGCTGGCTGAAGCCAGCCTATG
GCTGTGGTACAGTCAGTGCCCGGGCACACCCCGTCCAGTGTACGCCTTCTCCATCAA
GGCCCTTCTATGGAGAGGATGTCTCCAATAACAACGACAGCCAGAAAGAGGAAAGTGCAGC
CAGACCCAGTGCCCGAGGAAGGTCATCAAGATGGAGTCTGAGGAGGGAAAGGAGGCAAGG
TTGGCTCGGAGCTCCCCGGAGCAGCCAGGCCAGCACCTCCAAGGCAGTCTCACACCC
CACCTGGATGGACCGCTAGCCCCAGGAGCCCCGTATAGGAAGTGAAGTCTTCTGCC
AACAGCAACCACGTGGCCAGTGGCGCCGGGAGGCAGGTAGGGAGAGGAACGCGTTGTGG
TGA
    
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Clone variation with respect to NM_033244.3

5' Read Nucleotide Sequence: >Reverse primer walk for NM_033244 unedited

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CATAACAGGGACCAGCACAACCGGTACGTAAATCCTCGGCAGTACAGCTGGTCAGCGTAG
GGGTGCGGTGGTTGGGGTTGGAGCAGAAGAGTTGTTGGTCTTGCGGGTGCCGTCCAGGAA
CTCACGCACCGACTGGTTGCGCAGCTCTGCTAGGGCCGGGCCTCGTGCTTGAGGAACCA
CTGGTGTGCCTCGAAGCACTTGGCGCAGAGGAGCTGCTCGCACTCAAAGCACCAGAAGTC
GGCCGACTCTTTGCAGCGGGTGCACACAGCCTGCGCATCCACAATCTGCCGTTACACCGA
CAGGCGCCGCTGCAGACTCTCGAAAAAGACGTTATCCAGGGCGGGTGTGTCTGCACCTAG
GGGCCAGGGCGCCTGGCAGATGGGGCACTGCATGCCCCAGCCTCCAGGCATCCTGAGCA
CAGCGTGTGCAGACAAGGCAGCAGCTTCGGGCACTTGGCTTCCGCTGGCATTGCTGGCA
GCGCAGAAACTGGAACCTCTCCTCCGAAGCGGGGCTCGCTCTGTAGGGTGGGGCTGGG
GCTGGGCTGGCGCCTTACAGAGGGGTCTCGGGGGAGGCATGGTGGGCTCCTGGGGCCG
GGCGNGTCTGCTGGGGCTCGGAGATCGGGCGGGTGCAGGCTCCATGGACCCAGCTT
AGTTTCGATTCTCGCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCTGATTACAAAA
TTCTGACGGTTCATAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCTACCG
CCCATTTCGCTCAACGGGGCGGGTTATTACGACATTTTGAAAGTCCCCTTGATTTTGG
TGCCCAACAAACTCCCATTGACGTCCATGGGGTGGAGACTTGGAAAATCCCCGTGAGT
CAAACCGTATCCACCG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_033244 unedited GNANGAGCACTGGGGNAGGGTCACAGGGATGCCACCCGGGTTCTGTTTCAGGAAAAGCTAT GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTAAGGCGGACATCTT TATTCAAGCCAGCAAATGACACGCCAGGAGCCAGGTGAGCCGGAGTGCTCTGCCAGCC TGGCTGCAGTTGTTGGCCAGAGCTCAGAGCTCTCTGGCCTGGCAGATGGCTCTGCCTG CACTTCTTTTTGGGACTCAGAGACTAAATTAGAAAGGGTGGGGTAGCCCCAGGAGAAC CCACTTTCATTGTCAATCTTGAGGTCAAAGAAAACCAGAGTCTGTCTTCTGCTTGGGGG TCAGCAAGGTTCTCGTCCAGGACCTGAGGGTGCTGGGGCCTCCAGCTGGAGGTCACTG GACTCACTGCTGTGTCATCCAGCTCTCGGAGGACGAGTTTTTCGCATCTGAGTCTTCC GAGCTGCTGATACCACAACGCTTCTCTCCCTACCTGCCTCCCCGGCGCCACTGGCCA CGTGGTTGCTGTTGGGCAGGAAGACCTCACTTCTATGACGGGGCTCTGGGGCTAGGCG GTCCATCCAGGTGGGGTGGTGGAGTGCCTTGGAGGTGCTGGGCCTGGGCTGCTCCGGG AGCTCCGAGCCAACCTTGCTCCTTCCCCTCCTCAGACTCCATCTTGATGACCTTCTGG GGCACTGGTCTGGCTGCACTTCTTCTGGGCTGTCGTTGATTGGAGACATCCTCTC CATAGGAAGGGCCTTTGATGGAGAAGGCGTACACTGGCACGGGGTGTGCCCCGGGCACT GACTGTACCACAGCCATAGGCTGGGCTTACGCCN
Restriction Sites:	Please inquire
ACCN:	NM_033244
Insert Size:	2100 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:	<u>NM_033244.3</u> , <u>NP_150247.2</u>
RefSeq Size:	3096 bp
RefSeq ORF:	1683 bp
Locus ID:	5371
UniProt ID:	<u>P29590</u>
Cytogenetics:	15q24.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer, Ubiquitin mediated proteolysis

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]

Transcript Variant: This variant (5) differs in the 3' UTR and the 3' coding region compared to variant 1. The resulting isoform (5, also known as PML-3B, PML-VI and TRIM19epsilon) contains a distinct C-terminus compared to isoform 1.