

Product datasheet for **SC319404**

PML Protein (PML) (NM_033250) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PML Protein (PML) (NM_033250) Human Untagged Clone
Tag:	Tag Free
Symbol:	PML Protein
Synonyms:	MYL; PP8675; RNF71; TRIM19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_033250.2
CTTCAGCTTCTCTTACGCACTCCAAGATCTAAACCGAGAATCGAACTAAGCTGGGGTC
CATGGAGCCTGCACCCGCCGATCTCCGAGGCCAGCAGGACCCCGCCCGCCAGGA
GCCACCATGCCTCCCCCGAGACCCCTCTGAAGGCCGCCAGCCAGCCCGCCAGCCAG
CCCTACAGAGCGAGCCCGCTTCGGAGGAGGATTCCAGTTTCTGCGCTGCCAGCAATG
CCAGGGGAAGCCAAGTGCCCGAAGCTGCTGCCTTGTCTGCACACGCTGTGCTCAGGATG
CCTGGAGCGCTCGGGCATGCAGTGCCCATCTGCCAGGCCCTGGCCCTAGGTGCAGA
CACACCCGCCCTGGATAACGCTCTTTTCGAGAGTCTGCAGCGGCCCTGTGCGGTGTACC
GCAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTG
CTTTGAGTGCGAGCAGCTCCTCTGCGCCAAGTGCTTCGAGGCACACCAGTGGTTCCTCAA
GCACGAGGCCCGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCTGGACGG
CACCCGCAAGACCAACAACATCTTCTGCTCCAACCCCAACCACCGCACCCCTACGCTGAC
CAGCATCTACTGCCGAGGATGTTCCAAGCCGCTGTGCTGCTCGTGCAGCTCCTTGACAG
CAGCCACAGTGATCTCAAGTGCACATCAGCGCAGAGATCCAGCAGCGACAGGAGGAGCT
GGACGCCATGACGCAGGCCTGCAGGAGCAGGATAGTGCCTTTGGCGCGTTACGCGCA
GATGCACGCGGCTGTCCGCCAGCTGGGCCGCGCGTGCAGAGACCGAGGAGCTGATCCG
CGAGCGCTGCGCCAGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCAGCTGCTGGAGGC
TGTGGACGCGCGTACCAGCGGACTACGAGGAGATGGCCAGTCGGCTGGGCCGCTGGA
TGCTGTGCTGCAGCGCATCCGCACGGCAGCGCGCTGGTGAGAGGATGAAGTGCTACGC
CTCGGACCAGGAGGTGCTGGACATGCACGGTTTCTGCGCCAGGCGCTCTGCCGCTGCG
CCAGGAGGAGCCAGAGCCTGCAAGCTGCCGTGCGCACCGATGGCTTCGACGAGTTCAA
GGTGCCCTGCAGGACCTCAGCTCTTGCATCACCCAGGGAAAGATGCAGCTGTATCAA
GAAAGCCAGCCAGAGGCTGCCAGCACTCCAGGACCTATTGACGTTGACCTGGATGT
CTCAATACAACGACAGCCAGAAAGAGGAAGTGCAGCCAGACCCAGTGCAGGAAAGGT
CATCAAGATGGAGTCTGAGGAGGGAAAGGAGGCAAGGTTGGCTCGGAGCTCCCGGAGCA
GCCAGGCCAGCACCTCCAAGGAGTCTCACACCCACCTGGATGGACCGCTAGCC
CAGGAGCCCGTCATAGGAAGTGAGGTCTTCTGCCAACAGCAACCACGTGGCCAGTGG
CGCCGGGAGGCAGAGGAACGCTTGTGGTGATCAGCAGCTCGGAAGACTCAGATGCCGA
AAACTCGTGATGGAGCCATGGAGACCGCCGAGCCACAGTCTCGCCAGCCACTCCTC
GCCAGCCACTCCTCGCCAGCCACTCCTCGCCAGTCCAGTCTCTGCTGAGAGCACAAAG
AGCTCCAGCCTGCCCTGTGGCACATACCACCCCCAGCTTGGCTCCCCACCAGCCCGC
TGAGCAGGCTGCCACCCCGATGCTGAGCTCACAGCGACCTCCTGATACCAGGAGCG
CCCTGCCGTCCACCGTGGGATCCGCTACCTGTTGTACAGAGCACAGAGGCCATCCGCT
TCGCCATGCCCTCCGCTTGCACCCTCAATTGCATCGGGCCCTATTCCGACTTGGTCTCC
CCATGTGGTCCAAGCCAGCACTCCTGCCATCACAGGGCCCTCAACCATCCTGCCAATGC
CCAGGAACATCCTGCCAGCTGCAAAGGGGCATCAGCCACCCACCCGGATACGAGGGGC
TGTGCGATCCCGCAGCCGCTCCCTCCGGGGCTCCTCCATTTATCCCAGTGGCTCAACAA
CTTTTTGCCCCTCCCCTTCTCCTCCATGGCTTCCAGCTTGCATGTCTTCCGTGGTGGG
GGCAGGGGAAGGCAGAGCCAGACTCTTGGAGCAGTTGTTCCCCCTGGGGACTCTGTGAG
AGGCTCCATGGAGCCTCTCAAGTCCAAGTGCCTCTGGAAGCCTCTCAATTACATTCCC
ACCACCCTGTGCCCCAGAAAGGCCCCCATCAGCCAGTCCAGGCGCCCGTCAAGCAGG
CCTCTGAGAGTGCTACCTTCTCTTGTAACTTGCAGCCAACACCCTGCCCGGCCCTG
AGCTGCCCTCCTCAGCCATGCTCTTACAGGCCCTGCACAGAGTAGCACTCATTAAATTCT
TGGTTAAGGAATGAATCAACGAATGAATGGCTATGCATGGACCTCTGGGCAGGGAGACT
GGGTCTTCTCTGGCTGAGAGGGGAAGGCTAAGGCATGGCTGAGATTCAAGCCACCATTCC
AGGCTCTTTGCCAAGAAAGAAACTTCTGTACCCTTGCAGTCTCCTGTGTTCTGAGTC
CCTGGCCAATAGCACAGCCTTCCATGCCCGACCCCAAGCCTCTCCACTAGGCC
TCTGCCAGGATCTAAGCCATGAGCACAGGACTGGCTATCCCAAGACCTGGCAGATGTG
GCTGCTCAATAAACACTTGTGTAACCATCAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

Please inquire

ACCN:	NM_033250
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_033250.2 , NP_150253.2
RefSeq Size:	2944 bp
RefSeq ORF:	2346 bp
Locus ID:	5371
UniProt ID:	P29590
Cytogenetics:	15q24.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer, Ubiquitin mediated proteolysis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (11) has multiple differences in the coding region compared to variant 1, one of which results in translational frame-shift. The resulting isoform (11, also known as PML-2A and PML-IIA) has a distinct C-terminus and is shorter than isoform 1.</p>