

Product datasheet for **SC311314**

PML Protein (PML) (NM_033239) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PML Protein (PML) (NM_033239) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PML |
| Synonyms: | MYL; PP8675; RNF71; TRIM19 |
| Vector: | <u>pCMV6 series</u> |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_033239, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTGCACCCGCCGATCTCCGAGGCCCCAGCAGGACCCCGCCCGGCCCCAGGAG
CCCACCATGCCTCCCCCGAGACCCCTCTGAAGGCCGCCAGCCAGCCCGCCAGCCAGC
CCTACAGAGCGAGCCCCGCTTCGGAGGAGGAGTTCCAGTTTCTGCGCTGCCAGCAATGC
CAGGCGGAAGCCAAGTGCCCGAAGCTGCTGCCTGTCTGCACACGCTGTGCTCAGGATGC
CTGGAGCGCTCGGCATGCAGTGCCCATCTGCCAGGCCCTGGCCCTAGGTGCAGAC
ACACCCGCCCTGGATAAGTCTTTTTTCGAGAGTCTGCAGCGGCGCCTGTGGTGTACCGG
CAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCCGCCGACTTCTGGTGC
TTTGAGTGCAGCAGCTCCTCTGCGCAAGTGCTTCGAGGCACACCAGTGGTTCTCAAG
CACGAGGCCCGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCTGGACGGC
ACCCGCAAGACCAACAACATCTTCTGCTCAACCCCAACCACCGCACCCCTACGCTGACC
AGCATCTACTGCCGAGGATGTTCCAAGCCGCTGTGCTGCTCGTGCAGCTCCTTGACAGC
AGCCACAGTGAGCTCAAGTGCAGCATCAGCGCAGAGATCCAGCAGCGACAGGAGGAGCTG
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ATGCACGCGGCCCTCGGCCAGCTGGGCCGCGCGGTGCCGAGACCGAGGAGCTGATCCGC
GAGCGCGTGCGCCAGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCT
GTGGACGCGCGGTACCAGCGCGACTACGAGGAGATGGCCAGTCGGCTGGGCCGCCTGGAT
GCTGTGCTGCAGCGCATCCGCACGGGCAGCGCGCTGGTGCAGAGGATGAAGTGCTACGCC
TCGGACCAGGAGGTGCTGGACATGCACGGTTTCTGCGCCAGGCGCTCTGCCGCTGCGC
CAGGAGGAGCCCCAGAGCCTGCAAGCTGCCGTGCGCACCGATGGCTTCGACGAGTTCAAG
GTGCGCCTGCAGGACCTCAGCTTTGCATCACCCAGGGAAAGATGCAGCTGTATCCAAG
AAAGCCAGCCAGAGGCTGCCAGCACTCCAGGGACCCATTGACGTTGACCTGCCCGAG
GAGGCAGAGAGAGTGAAGGCCAGGTTTCAGGCCCTGGGGCTGGCTGAAGCCAGCCTATG
GCTGTGGTACAGTCAGTCCCGGGGCACACCCCGTCCAGTGTACGCTTCTCCATCAA
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CAGACCCAGTGCCCGAGGAAGTGCATCAAGATGGAGTCTGAGGAGGGAAAGGAGGCAAGG
TTGGCTCGGAGCTCCCCGGAGCAGCCAGGCCAGCACCTCCAAGGCAGTCTCACACCC
CACCTGGATGGACCGCTAGCCCCAGGAGCCCGTCATAGGAAGTGAAGTCTTCTGCC
AACAGCAACCACGTGGCCAGTGGCGCCGGGAGGCAGAGGAACGCGTTGTGGTGATCAGC
AGCTCGGAAGACTCAGATGCCGAAAACCTGTGCATGGAGCCCATGGAGACCGCCGAGCCA
CAGTCTCGCCAGCCACTCCTCGCCAGCCACTCCTCGCCAGCCACTCCTCGCCAGTC
CAGTCTCTGCTGAGAGCAAGGAGCCTCCAGCCTGCCCTGTGGCACATACCACCCCCA
GCTTGGCCTCCCCACCAGCCCGCTGAGCAGGCTGCCACCCCGATGCTGAGCCTCACAGC
GAGCCTCTGATCACCAGGAGCGCCCTGCCGTCCACCGTGGGATCCGCTACCTGTTGTAC
AGAGCACAGAGAGCCATCCGCTTCGCCATGCCCTCCGCTTGACCCCTCAATTGCATCGG
GCCCTATTGGACTTGGTCTCCCCATGTGGTCCAAGCCAGCACTCCTGCCATCACAGGG
CCCCTCAACCATCCTGCCAATGCCAGGAACATCCTGCCAGCTGCAAAGGGGCATCAGC
CCACCCACCCGATACGAGGGGCTGTGCGATCCCGCAGCCGCTCCCTCCGGGGCTCCTCC
CATTTATCCAGTGGCTCAACAACTTTTTGGCCCTCCCTTCTCCTCCATGGCTTCCAG
CTTGACATGTCTTCCGTGGTGGGGCAGGGAAAGCAGAGCCAGACTCTTGAGCAGGT
GTTCCCCCTGGGACTCTGTGAGGCTCCATGGAGGCTCTCAAGTCCAAGTGCCTCTG
GAAGCCTCTCCAATTACATTCACCACCCTGTGCCCCAGAAAGGCCCCCATCAGCCCA
GTCCAGGCGCCGTC AAGCAGGCTCTGA
    
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Restriction Sites: Please inquire
ACCN: NM_033239

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| 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_033239.2 , NP_150242.1 |
| 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 |
| 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 (9) differs in the 3' UTR and the 3' coding region compared to variant 1. The resulting isoform (9, also known as PML-II and TRIM19kappa) contains a distinct C-terminus compared to isoform 1.</p> |