

Product datasheet for **SC109584**

PML Protein (PML) (NM_033240) Human Untagged Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | PML Protein (PML) (NM_033240) 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) |

Fully Sequenced ORF: >OriGene sequence for NM_033240 edited
 GAATTCGGCACGAGGCTAAACCGAGAATCGAACTAAGCTGGGGTCCATGGAGCCTGCAC
 CCGCCCGATCTCCGAGGCCAGCAGGACCCCGCCCGCCAGGAGCCACCATGCCTC
 CCCCCGAGACCCCTCTGAAGGCCGCCAGCCAGCCCGCCAGCCCTACAGAGCGAG
 CCCCCGCTTCGGAGGAGGAGTTCCAGTTTCTGCGCTGCCAGCAATGCCAGCGGAAGCCA
 AGTGCCCGAAGCTGCTGCCTTGCTGCACACGCTGTGCTCAGGATGCCTGGAGGCGTCGG
 GCATGCAGTGCCCATCTGCCAGGCGCCCTGGCCCTAGGTGCAGACACCCGCGCTGG
 ATAACGCTTTTTTCGAGAGTCTGCAGCGCGCCTGTGCGGTGACCGGCAGATTGTGGATG
 CGCAGGCTGTGTGACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGTGTTGAGTGCAGC
 AGCTCCTCTGCGCAAGTGTCTCGAGGCACACCAGTGGTTCTCAAGCACGAGGCCCGGC
 CCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCTGGACGCGACCCGCAAGACCA
 ACAACATCTTCTGCTCCAACCCCAACCACCGCACCCCTACGCTGACCAGCATCTACTGCC
 GAGGATGTTCCAAGCCGCTGTGCTGCTCGTGCGGCTCCTTGACAGCAGCCACAGTGAGC
 TCAAGTGCGACATCAGCGCAGAGATCCAGCAGCGACAGGAGGAGCTGGACGCCATGACGC
 AGGCGCTGCAGGAGCAGGATAGTGCCTTTGGCGCGTTACGCGCAGATGCACGCGGCCG
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 AGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCTGTGGACGCGCGGT
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 CCTCCAAGGCAGTCTACCACCCACCTGGATGGACCGCTAGCCCCAGGAGCCCGTCA
 TAGGAAGTGAGGTCTTCTGCCAACAGCAACCACGTGGCCAGTGGCGCCGGGAGGCAG



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CACAGCAGGTGACTCTCAGACTTGCCCTTGCCTGGGGAATTTCCAGTGAGGCATTGAG
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AAAAAAAAAAAAAAGTCCGAC
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_033240

Insert Size:

3630 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:

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_033240.2](#), [NP_150243.2](#)

RefSeq Size: 3751 bp

RefSeq ORF: 1836 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: 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 (2) differs in the 3' UTR and the 3' coding region compared to variant 1. The resulting isoform (2, also known PML-2, PML-V and TRIM19beta) contains a distinct C-terminus compared to isoform 1.