

Product datasheet for SC311116

PML Protein (PML) (NM_033238) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PML Protein (PML) (NM_033238) Human Untagged Clone
Tag: Tag Free
Symbol: PML Protein
Synonyms: MYL; PP8675; RNF71; TRIM19
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_033238 edited
CGAGAATCGAACTAAGCTGGGGTCCATGGAGCCTGCACCCGCCGATCTCCGAGGCCCC
AGCAGGACCCCGCCCGCCAGGAGCCACCATGCCTCCCCCGAGACCCCTCTGAAG
GCCGCCAGCCAGCCCCAGCCCAAGCCCTACAGAGCGAGCCCCGCTTCGGAGGAGGAGT
TCCAGTTTCTGCGCTGCCAGCAATGCCAGGCGAAGCCAAGTGCCCGAAGCTGCTGCCTT
GTCTGCACACGCTGTGCTCAGGATGCCTGGAGGCGTCGGGCATGCAGTGCCCATCTGCC
AGGCGCCCTGGCCCTAGGTGCAGACACACCCGCCCTGGATAACGTCTTTTTCGAGAGTC
TGCAGCGGCGCTGTCCGGTGTACCGGCAGATTGTGGATGCGCAGGCTGTGTGCACCCGCT
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GTGCCCTTTGGCGCGGTTACGCGCAGATGCACGCGGCCGTTCGGCCAGCTGGGCCGCGCGC
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TGGCCAGTCGGCTGGGCCGCTGGATGCTGTGCTGCAGCGCATCCGCACGGGCAGCGCCG
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AGGGGAAAGATGCAGCTGTATCCAAGAAAGCCAGCCAGAGGCTGCCAGCACTCCAGGG
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TGGGGCTGGCTGAAGCCAGCCTATGGCTGTGGTACAGTCAGTGCCTGGGGCACACCCCG
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 CAGAGGAACGCGTTGTGGTGATCAGCAGCTCGGAAGACTCAGATGCCGAAAACCTCGTCT
 CCCGAGAGCTGGATGACAGCAGCAGTGAGTCCAGTGACCTCCAGCTGGAAGGCCCCAGCA
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 ATGGCTGATGACCTCAGCTTTCACACTGGTGAAGTCTGTGTACCCATACTGCAGCCCAT
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 GTGCTGGCTCTCACAGTGAATTTGATGCATTTAAAATAAGATTCTGATGCCAGACTGTT
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 GGGAGACTGGGCCCACTGATTTCCAGCCCACTGATGTGCTGTTTTAGATGTGATTGA
 GGGGTGTTCTGCCCTGCCTCCACTGTCACAGCCTTAATAAAGATGTGAATCTTGAAAAA
 AAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_033238 unedited
 GGACGTCAGCATTTGTNATACGACTTCACTATAGGCGGCCGCGCAATTCGCACGAGCGAG
 AATCGAACTAAGCTGGGGTCCATGGAGCCTGCACCCGCCGATCTCCGAGGCCCCAGCA
 GGACCCCGCCCGGCCCCAGGAGCCACCATGCCTCCCCCGAGACCCCTCTGAAGGCCG
 CCAGCCCAGCCCCAGCCCCAGCCCTACAGAGCGAGCCCCCGCTTCGGAGGAGGAGTTCCA
 GTTTCTGCGCTGCCAGCAATGCCAGGCGGAAGCCAAGTCCCCGAAGCTGCTGCCTGTCT
 GCACACGCTGTGCTCAGGATGCCTGGAGCGCTCGGGCATGCAGTGCCCCATCTGCCAGGC
 GCCCTGGCCCTAGGTGCAGACACCCGCCCTGGATAACGTCTTTTTCGAGAGTCTGCA
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 AGAGTCGGCCGACTTCTGGTCTTTGAGTGCGAGCAGCTCCTCTGCGCCAAGTGCTTCGA
 GGCACACCAGTGGTTCTCAAGCACGAGGCCCGGCCCTAGCAGAGCTGCGCAACCAGTC
 GGTGCGTGAGTTCCTGGACGGCACCCGCAAGACCAACAACATCTTCTGCTCCAACCCAA
 CCACCGCACCCCTACGCTGACCAGCATCTACTGCCGAGGATGTTCAAGCCGCTGTGCTG
 CTCGTGCGCGCTCCTTGACAGCAGCCACAGTGAGCTCAAGTGCACATCAGCGCAGAGAT
 CCAGCAGCGACAGGAAGACTGGACGCCATGACGCANGCGCTGCAGGAGCAAGATAGTGC
 CTTTGGCGCGGTTACGCGCAGATGCACGNCGCCGTNCGCCAGCTGGGCCGCGCGCTGC
 CGAGACCCGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_033238 unedited
 CTTGGGATGGCACTTCCAGGTCCAGNAAAGCACTGGGGCAGGGTCACAGGGATGCCACCC
 GGGATCTGTTCAGAAACAGCTATGACCGCGGCCAATCTAGAGTCGAGTTTTTTTTTT
 TTTTTTTTTTCAAGATTCACATCTTTATTAAGGCTGTGACAGTGGAGGCAGGGCAAAAC
 ACCCCTCAATCACATCTGAAAACAGCACACATGGTGGGGCTGGAATCAGTGGGCCCAGT
 CTCCCTTCTCCTCCATCTGCATCAATCTGTTCCATCGGTGCTTCAGAACCAGCGCCT
 ATTTTAACAGTCTGGCATCAGAACTTATTTAAATGCATCAAAATCACTGTGAGAGCC
 AGCACTCCGGTCGTGGGAACAAGACCCTACGGAATTCCTCAGTGGGTCTTCAGGGGCCCC
 ATGGGATGGGGCTGCAGTATGGGTACACAGACTCACCAGTGTGAAAGCTGAGGTATCA
 GCCATGGAGGCTAGAGGCTGGGCTGCTTGGGAAGCATCCAGGAGCAGGGAGCTAATGA
 GTAGGGATGGGAAGGAGGAGGAGGAGGAAGGGCTGTCGTTCTGCTAATCAGAGCGGAC
 AACCTGACCTGCCTCTGTTCTGCTGTTGACCTCTGATGTGACCACAAGTTGGGGACTA
 ACAGTTTGAATGGGAGCTAGAATTCAAGGATGAAAAGTCTTCTGTCCACTGCCTCAA
 GGCCTTGCTTCCATTCTAAAAATGCAGGAGGCCAGCCAGATGGCCGCTCTGACCATGG
 AAGCCATCCAGCCATTTTACGAATGGGAACCCTAAAACCTTAAGAAGGGACCTGGTT
 CTAGGCCAACTCACTGGCCAAGTCGAAATAAGGAACGGGACTTTTTT

Restriction Sites:

Please inquire

ACCN:

NM_033238

Insert Size:

4500 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).

OTI Annotation:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_033238.2](#), [NP_150241.2](#)

RefSeq Size: 5600 bp

RefSeq ORF: 2649 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: 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 (1) represents the longest transcript, and encodes the longest isoform (1, also known as TRIM19alpha).