

Product datasheet for **RC220236**

PML Protein (PML) (NM_033244) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PML Protein (PML) (NM_033244) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PML |
| Synonyms: | MYL; PP8675; RNF71; TRIM19 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RC220236 representing NM_033244
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGCACCCGCCGATCTCCGAGCCCCAGCAGGACCCGCCCGCCCCAGGAGCCACCATGC
 CTCCTCCCGAGACCCCTCTGAAGGCCGCCAGCCAGCCAGCCAGCCCTACAGAGCGAGCCCGC
 TTCGGAGGAGGATTCCAGTTTCTGCGCTGCCAGCAATGCCAGGCGGAAGCCAAGTGCCGAAGCTGCTG
 CCTGTCTGCACACGCTGTGCTCAGGATGCCTGGAGGCGTCGGGCATGCAGTGCCCCATCTGCCAGGCGC
 CCTGGCCCTAGGTGCAGACACCCGCCCTGGATAACGTCTTTTTCGAGAGTCTGCAGCGGCGCTGTC
 GGTGTACCGGCAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGC
 TTTGAGTGCAGCAGCTCCTCTGCGCAAGTGCTTCGAGGCACACCAGTGGTTCTCAAGCAGGAGGCC
 GGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCCTGGACGGCACCCGCAAGACCAACAACAT
 CTTCTGCTCCAACCCCAACCACCGACCCCTACGCTGACCAGCATCTACTGCCGAGGATGTTCAAGCCG
 CTGTGCTGCTCGTGCAGCTCCTTGACAGCAGCCACAGTGAGCTCAAGTGCAGCATCAGCGCAGAGATCC
 AGCAGCGACAGGAGGAGCTGGACGCCATGACGCAGGCGCTGCAGGAGCAGGATAGTGCTTTGGCGCGGT
 TCACGCGCAGATGCACGCGGCCGTGCGCCAGCTGGGCCGCGCGCTGCCGAGACCAGGAGCTGATCCGC
 GAGCGCGTGCAGGAGTGTAGCTACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCTGTGGACGCGC
 GGTACCAGCGGACTACGAGGAGATGGCCAGTCGGCTGGGCCCGCTGGATGCTGTGCTGCAGCGCATCCG
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 GAGGCAGAGAGAGTGAAGGCCAGGTTCAAGGCCCTGGGGCTGGCTGAAGCCAGCCTATGGCTGTGGTAC
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 TGTCTCCAATACAACGACAGCCAGAAGAGGAAGTGCAGCCAGACCCAGTCCCCAGGAAGGTCATCAAG
 ATGGAGTCTGAGGAGGGGAAGGAGGCAAGGTTGGCTCGGAGCTCCCGGAGCAGCCAGGCCAGCACCT
 CCAAGGCAGTCTACCACCCACCTGGATGGACCGCTAGCCCCAGGAGCCCGTCATAGGAAGTGAAGT
 CTTCTGCCAACAGCAACCACGTGGCCAGTGGCGCCGGGAGGCAGGTAGGGAGAGGAACGCTGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220236 representing NM_033244
 Red=Cloning site Green=Tags(s)

MEPAPARSPRPQQDPARPQEPTMPPPETPSEGRQPSPPSPPTERAPASEEEFQFLRCQQCQAEAKCPKLL
 PCLHTLCSGCLASGMQCPICQAPWPLGADTPALDNVFFESLQRRLSVYRQIVDAQVCTRCKESADFWC
 FECEQLLCAKCFEAHQWFLKHEARPLAELRNQSVREFLDGTRKTNNIFCSNPNHRTPTLTSIYCRGCSKP
 LCCSCALLDSSHSELKCDISAEIQQRQEELDAMTQALQEQDSAFGAVHAQMHAAVGQLGRARAETEELIR
 ERVRQVVAHVRAQERELLEAVDARYQRDYEEMASRLGRLDAVLQRIRTGSALVQRMKCYASDQEVLDMHG
 FLRQALCRLRQEEPQSLQAAVRTDGFDEFKVRQLDLSSCITQGKDAAVSKKASPEAASTPRDPIVDLPE
 EAERVKAQVQALGLAEAPMAVVQSVPGAHPVPVYAFSIKGPSYGEDVSNNTTAAQKRKCSQTQCPKRVIK
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SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

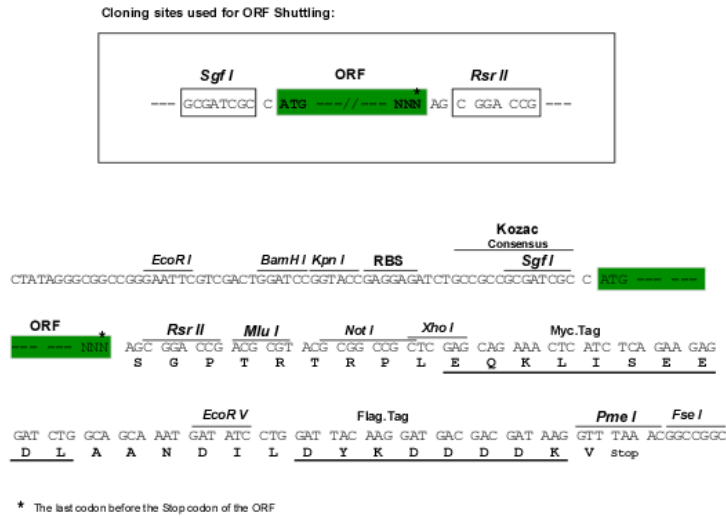
Chromatograms:

https://cdn.origene.com/chromatograms/mk6809_g05.zip

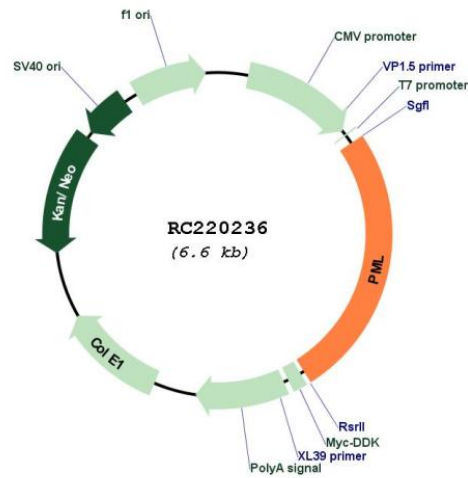
Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



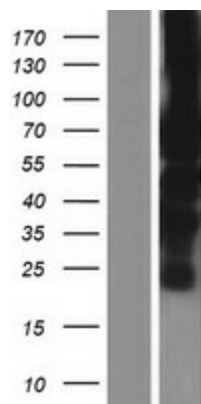
Plasmid Map:



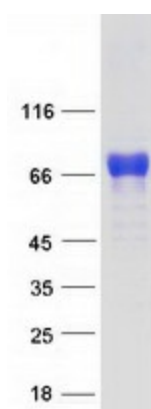
ACCN:

NM_033244

| | |
|-------------------------------|--|
| ORF Size: | 1680 bp |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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_033244.4 |
| RefSeq Size: | 3096 bp |
| RefSeq ORF: | 1683 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 |
| MW: | 61.8 kDa |
| 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] |

Product images:

Western blot validation of overexpression lysate (Cat# [LY409651]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220236 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PML protein (Cat# [TP320236]). The protein was produced from HEK293T cells transfected with PML cDNA clone (Cat# RC220236) using MegaTran 2.0 (Cat# [TT210002]).