

## Product datasheet for **RG214606**

### PML Protein (PML) (NM\_002675) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PML Protein (PML) (NM_002675) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PML Protein
Synonyms:	MYL; PP8675; RNF71; TRIM19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214606 representing NM\_002675  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCCTGCACCCGCCGATCTCCGAGCCCCAGCAGGACCCGCCCGCCCCAGGAGCCACCATGC  
 CTCCTCCCGAGACCCCTCTGAAGGCCGCCAGCCAGCCAGCCAGCCCTACAGAGCGAGCCCGC  
 TTCGGAGGAGGATTCCAGTTTCTGCGCTGCCAGCAATGCCAGGCGGAAGCCAAGTGCCCGAAGCTGCTG  
 CCTGTCTGCACACGCTGTGCTCAGGATGCCTGGAGGCGTCGGGCATGCAGTGCCCCATCTGCCAGGCGC  
 CCTGGCCCTAGGTGCAGACACCCGCCCTGGATAACGTCTTTTTCGAGAGTCTGCAGCGGCGCTGTC  
 GGTGTACCGGCAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGC  
 TTTGAGTGCAGCAGCTCCTCTGCGCAAGTGCTTCGAGGCACACCAGTGGTTCTCAAGCAGGAGGCC  
 GGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCCTGGACGGCACCCGCAAGACCAACAACAT  
 CTTCTGCTCAACCCCAACCACCGACCCCTACGCTGACCAGCATCTACTGCCGAGGATGTTCAAGCCG  
 CTGTGCTGCTCGTGCAGCTCCTTGACAGCAGCCACAGTGAGCTCAAGTGCAGACATCAGCGCAGAGATCC  
 AGCAGCGACAGGAGGAGCTGGACGCCATGACGCAGGCGCTGCAGGAGCAGGATAGTGCTTTGGCCGGT  
 TCACGCGCAGATGCACGCGGCCGTGGCCAGCTGGGCCGCGCGCTGCCGAGACCAGGAGCTGATCCGC  
 GAGCGCTGCGCCAGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCTGTGGACGCGC  
 GGTACCAGCGGACTACGAGGAGATGGCCAGTCGGCTGGGCCGCTGGATGCTGTGCTGCAGCGCATCCG  
 CACGGGACGCGGCTGGTGCAGAGGATGAAGTGTACGCTCGGACCAGGAGGTGCTGGACATGCACGGT  
 TTCCTGCGCCAGGCGCTCTGCCGCTGCCCAGGAGGCCAGAGCCTGCAAGCTGCCGTGCGCACCG  
 ATGGCTTCGACGAGTTCAAGGTGCGCTGCAGGACCTCAGCTCTTGATCACCCAGGGGAAGATGCAGC  
 TGTATCCAAGAAAGCCAGCCAGAGGCTGCCAGCACTCCAGGGACCCTATTGACGTTGACCTGCCCGAG  
 GAGGCAGAGAGAGTGAAGGCCAGGTTACGACCCTGGGGCTGGCTGAAGCCAGCCTATGGCTGTGGTAC  
 AGTCAGTGCCCGGGCACACCCCGTCCAGTGTACGCCTTCTCCATCAAAGGCCCTTCTATGGAGAGGA  
 TGTCTCCAATAACAACGACAGCCAGAAGAGGAAGTGCAGCCAGACCCAGTGCCCGAGGAGGTATCAAG  
 ATGGAGTCTGAGGAGGGGAAGGAGGCAAGGTTGGCTCGGAGCTCCCGGAGCAGCCAGGCCAGCACCT  
 CCAAGGCAGTCTACCACCCACCTGGATGGACCCTAGCCCCAGGAGCCCGTATAGGAAGTGAGGT  
 CTTCTGCCAACAGCAACCACGTGGCCAGTGGCGCCGGGAGGCAGAGGAACCGGTTGTGGTGATCAGC  
 AGCTCGGAAGACTCAGATGCCGAAAACCTGCTCCTCCCGAGAGCTGGATGACAGCAGCAGTGAAGTCCAGT  
 ACCTCCAGCTGGAAGGCCCCAGCACCCCTCAGGGTCTGGACGAGAACCTTGTGACCCCCAAGCAGAAGA  
 CAGACCTCTGGTTTTCTTGACCTCAAGATTGACAATGAAAGTGGGTTCTCTGGGGCTACCCCCACCC  
 TTTCTAATT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

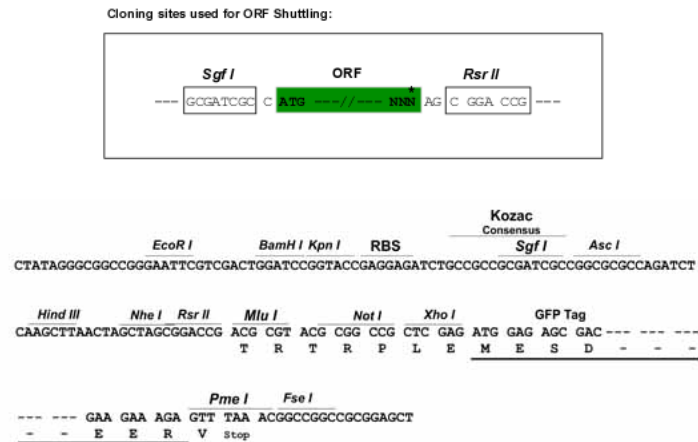
>RG214606 representing NM\_002675  
 Red=Cloning site Green=Tags(s)

MEPAPARSPRPQQDPARPQEPTMPPPETPSEGRQPSPPSPSPTERAPASEEEFQFLRCQQCAEAKCPKLL  
 PCLHTLCSGCLASGMQCPICQAPWPLGADTPALDNVFFESLQRRLSVYRQIVDAQVCTRCKESADFWC  
 FECEQLLCAKCFEAHQWFLKHEARPLAELRNQSVREFLDGTRKTNNIFCSNPNHRTPTLTSIYCRGCSKP  
 LCCSCALLDSSSELKCDISAEIQQRQEELDAMTQALQEQDSAFGAVHAQMHAAVGQLGRARAETEELIR  
 ERVRQVVAHVRAQERELLEAVDARYQRDYEMASRLGRLDAVLQIRRTGSALVQRMKCYASDQEVLDMHG  
 FLRQALCRLRQEEPQSLQAAVRTDGFDEFKVLQDLSSCITQGKDAAVSKKASPEAASTPRDPIDVDLPE  
 EAERVKAQVQALGLAEAQPMVVQSVPGAHPVPVYAFSFKGSPSYGEDVSNNTTAAQKRKCSQTQCPKRVIK  
 MESEEGKEARLARSSPEQPRPSTKAVSPPHLDGPPSPRSPVIGSEVFLPNSNHVASGAGEAERVVVIS  
 SSEDSDAENSSSRELDSSSESSDLQLEGPSTLRVLDENLADPQAEDRPLVFFDLKIDNESGFSWGYPHF  
 FLI

**SGP**TRRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM\_002675

ORF Size: 1899 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:

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\\_002675.3](#), [NP\\_002666.1](#)

RefSeq Size: 2254 bp

RefSeq ORF: 1902 bp

Locus ID: 5371

UniProt ID: [P29590](#)

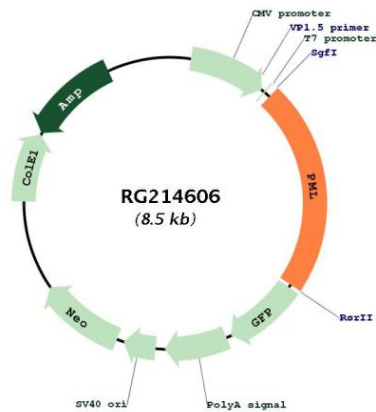
**Cytogenetics:** 15q24.1

**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]

**Product images:**



Circular map for RG214606