

Product datasheet for **RG220522**

PML Protein (PML) (NM_033246) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PML Protein (PML) (NM_033246) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PML
Synonyms:	MYL; PP8675; RNF71; TRIM19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220522 representing NM_033246 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTGCACCCGCCGATCTCCGAGGCCAGCAGGACCCCGCCGCCAGGAGCCACCATGC
CTCCCCGAGACCCCTCTGAAGGCCGACAGCCAGCCAGCCAGCCCTACAGAGCGAGCCCGC
TTCGGAGGAGGATTCAGTTTCTGCGTCCAGCAATGCCAGGCGGAAGCAAGTGCCGAAGCTGCTG
CCTTGTCTGCACACGCTGTGCTCAGGATGCCTGGAGCGTCGGGCATGCAGTGCCCATCTGCCAGGCGC
CCTGGCCCTAGGTGCAGACACCCGCCCTGGATAACGTCTTTTCGAGAGTCTGCAGCGGCCCTGTC
GGTGTACCGGCAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGC
TTTGAGTGCGAGCAGCTCCTCTGCGCAAGTGCTCGAGGCACACCAGTGGTTCTCAAGCACGAGGCC
GGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCCTGGACGGCACCCGCAAGCAACAACAT
CTTCTGCTCAACCCCAACCACCGCACCCCTACGCTGACCAGCATCTACTGCCGAGGATGTTCAAGCCG
CTGTGCTGCTCGTGCGGCTCCTTGACAGCAGCCACAGTGAGCTCAAGTGCGACATCAGCGCAGAGATCC
AGCAGCGACAGGAGGAGCTGGACCCATGACGCAGGCGCTGCAGGAGCAGGATAGTGCCTTTGGCGCGGT
TCACGCGCAGATGCACGCGGCCGTGGCCAGCTGGCCGCGCGCTGCCGAGACCGAGGAGCTGATCCGC
GAGCGCGTGGCCAGGTGAGTACGTGCGGGCTCAGGAGCGGAGCTGCTGGAGCTGTGGACGCGC
GGTACCAGCGCGACTACGAGGAGATGGCCAGTCGGCTGGCCGCTGGATGCTGTGCTGCAGCGCATCCG
CACGGGCAGCGGCTGGTGCAGAGGATGAAGTGCTACGCCTCGGACCAGGAGGTGCTGGACATGCACGGT
TTCCTGCGCCAGGCGCTCTGCCGCTGCCAGGAGGAGCCAGAGCCTGCAAGCTGCCGTGCCACCG
ATGGCTTCGACGAGTTCAAGGTGCGCTGCAGGACCTCAGCTCTTGATCACCCAGGGAAAGATGCAGC
TGTATCCAAGAAAGCCAGCCAGAGGCTGCCAGCACTCCAGGGACCCTATTGACGTTGACCTGAGGAAC
CGTTGTGG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

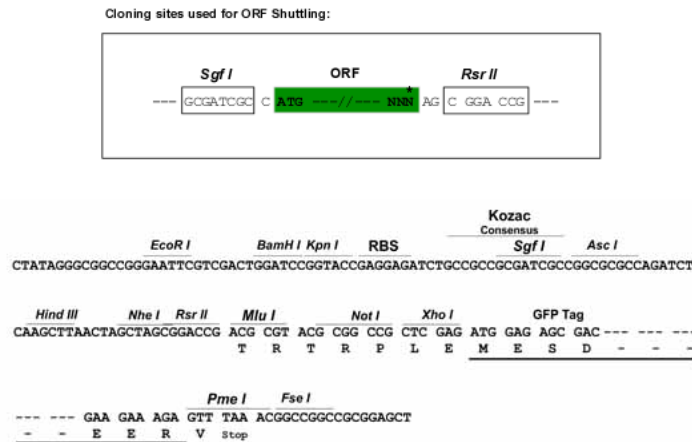
Protein Sequence: >RG220522 representing NM_033246
 Red=Cloning site Green=Tags(s)

MEPAPARSPRPQQDPARPQEPTMPPPETPSEGRQPSPSPSPTERAPASEEEFQFLRCQQCAEAKCPKLL
 PCLHTLCSGCLASGMQCPICQAPWPLGADTPALDNVVFESLQRRLSVYRQIVDAQAVCTRCKESADFWC
 FECEQLLCAKCFEAHQWFLKHEARPLAELRNQSVREFLDGTRKTNNIFCSNPNHRTPTLTSIYCRGC SKP
 LCCSCALLDSSHSELKCDISAEIQQRQEELDAMTQALQEQDSAFGAVHAQMHAAVGQLGRARAETEELIR
 ERVRQVVAVHRAQERELLEAVDARYQRDYEMASRLGRLDAVLQRIRTGSALVQRMKCYASDQEVLDMHG
 FLRQALCRLRQEEPQSLQAAVRTDGFDEFKVRQLDSSCITQGKDAAVSKKASPEAASTPRDPIDVDLRN
 ALW

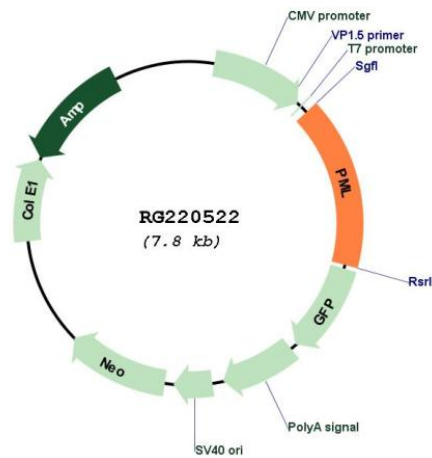
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_033246

ORF Size:	1269 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_033246.2 , NP_150249.1
RefSeq Size:	1851 bp
RefSeq ORF:	1272 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]