

## Product datasheet for **RG220236**

### **PML Protein (PML) (NM\_033244) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PML Protein (PML) (NM_033244) 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)



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**ORF Nucleotide Sequence:**

>RG220236 representing NM\_033244  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCTGCACCCGCCGATCTCCGAGGCCAGCAGGACCCGCCCGCCAGGAGCCACCATGC  
 CTCCCCCGAGACCCCTCTGAAGGCCCGCCAGCCAGCCAGCCAGCCCTACAGAGCGAGCCCGC  
 TTCGGAGGAGGATTCCAGTTTCTGCGCTGCCAGCAATGCCAGGCGGAAGCCAAGTGCCGAAGCTGCTG  
 CCTGTCTGCACACGCTGTGCTCAGGATGCCTGGAGGCGTCGGGCATGCAGTGCCCATCTGCCAGGCGC  
 CCTGGCCCTAGGTGCAGACACCCGCCCTGGATAACGTCTTTTTCGAGAGTCTGCAGCGGCGCTGTC  
 GGTGTACCGGCAGATTGTGGATGCGCAGGCTGTGTGCACCCGCTGCAAAGAGTCGGCCGACTTCTGGTGC  
 TTTGAGTGCAGCAGCTCCTCTGCGCAAGTGCTTCGAGGCACACCAGTGGTTCTCAAGCAGGAGGCC  
 GGCCCTAGCAGAGCTGCGCAACCAGTCGGTGCCTGAGTTCCTGGACGGCACCCGCAAGACCAACAAT  
 CTTCTGCTCAACCCCAACCACCGACCCCTACGCTGACCAGCATCTACTGCCGAGGATGTTCAAGCCG  
 CTGTGCTGCTCGTGCAGCTCCTTGACAGCAGCCACAGTGCAGTCAAGTGCAGACATCAGCGCAGAGATCC  
 AGCAGCGACAGGAGGAGCTGGACGCCATGACGCAGGCGCTGCAGGAGCAGGATAGTGCTTTGGCCGGT  
 TCACGCGCAGATGCACGCGGCCGTGGCCAGCTGGGCCGCGCGCTGCCGAGACCGAGGAGCTGATCCGC  
 GAGCGCTGCGCCAGGTGGTAGCTCACGTGCGGGCTCAGGAGCGCGAGCTGCTGGAGGCTGTGGACGCGC  
 GGTACCAGCGGACTACGAGGAGATGGCCAGTCGGCTGGGCCGCTGGATGCTGTGCTGCAGCGCATCCG  
 CACGGGACGCGGCTGGTGCAGAGGATGAAGTGTACGCTCGGACCAGGAGGCTGGACATGCACGGT  
 TTCTGCGCCAGGCGCTCTGCCGCTGCGCCAGGAGGCCAGAGCCTGCAAGCTGCCGTGCGCACCG  
 ATGGCTTCGACGAGTTCAAGGTGCGCTGCAGGACCTCAGCTCTTGATCACCCAGGGGAAGATGCAGC  
 TGTATCCAAGAAAGCCAGCCAGAGGCTGCCAGCACTCCAGGGACCCTATTGACGTTGACCTGCCCGAG  
 GAGGCAGAGAGAGTGAAGGCCAGGTTACGCCCCTGGGGCTGGCTGAAGCCAGCCTATGGCTGTGGTAC  
 AGTCAGTGCCCGGGCACACCCCGTCCAGTGTACGCCTTCTCCATCAAAGGCCCTTCTATGGAGAGGA  
 TGTCTCAATAACAACGACAGCCAGAAGAGGAAGTGCAGCCAGACCCAGTCCCCAGGAAGGTATCAAG  
 ATGGAGTCTGAGGAGGGGAAGGAGGCAAGGTTGGCTCGGAGCTCCCGGAGCAGCCAGGCCAGCACCT  
 CCAAGGCAGTCTACCACCCACCTGGATGGACCGCTAGCCCCAGGAGCCCGTATAGGAAGTGAAGT  
 CTTCTGCCAACAGCAACCACGTGGCCAGTGGCCCGGGGAGGCAGGTAGGAGAGGAACGCTTGTGG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG220236 representing NM\_033244  
 Red=Cloning site Green=Tags(s)

MEPAPARSPRPQDPARPQEPTMPPPETPSEGRQSPSPSPPTERAPASEEEFQFLRCQQCAEAKCPKLL  
 PCLHTLCSGCLASGMQCPICQAPWPLGADTPALDNVFFESLQRRLSVYRQIVDAQAVCTRCKESADFWC  
 FECEQLLCAKCFEAHQWFLKHEARPLAELRNQSVREFLDGTRKTNNIFCSNPNHRTPTLTSIYCRGCSKP  
 LCCSCALLDSSHSELKCDISAEIQQRQEELDAMTQALQEQDSAFGAVHAQMHAAVGQLGRARAETEELIR  
 ERVRQVVAHVRAQERELLEAVDARYQRDYEMASRLGRLDAVLQRIRTSALVQRMKCYASDQEVLDMHG  
 FLRQALCRLRQEEPQSLQAAVRTDGFDEFKVRQLDLSSCITQGDAAVSKKASPEAASTPRDPIDVDLPE  
 EAERVKAQVQALGLAEAQPMVAVQSVPGAHPVPVYAFSIKGPSYGEDVSNTTTAQKRKCSQTQCPKRVIK  
 MESEEGKEARLARSSPEQPRPSTSKAVSPPHLDGPPSPRSPVIGSEVFLPNSNHVASGAGEAGRERNALW

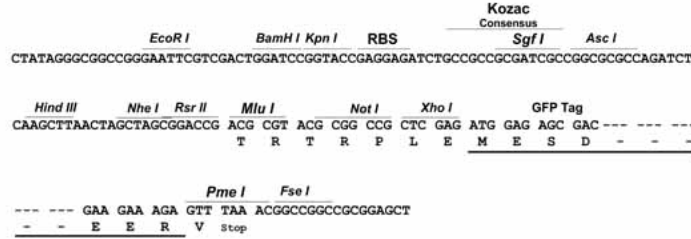
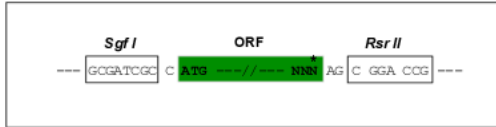
SGPTRRRLE - GFP Tag - V

**Restriction Sites:**

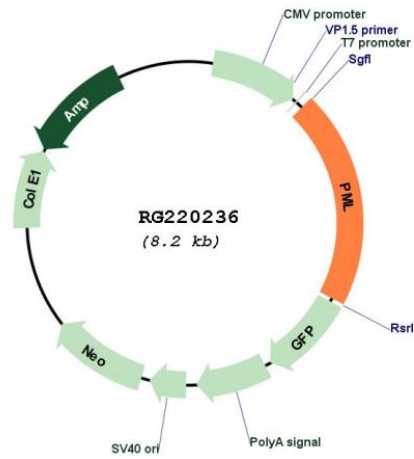
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



<b>ACCN:</b>	NM_033244
<b>ORF Size:</b>	1680 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_033244.4</a>
<b>RefSeq Size:</b>	3096 bp
<b>RefSeq ORF:</b>	1683 bp
<b>Locus ID:</b>	5371
<b>UniProt ID:</b>	<a href="#">P29590</a>
<b>Cytogenetics:</b>	15q24.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Pathways in cancer, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	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]