

Product datasheet for **RG231047**

Myeloid leukemia factor 1 (MLF1) (NM_001195433) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myeloid leukemia factor 1 (MLF1) (NM_001195433) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MLF1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231047 representing NM_001195433
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGACAGATGATAAGAAGTTTTCTGAACCCTTTGGAAGAGACTTGCTCAGTATCTCTGATGGTAGAG
GGAGAGCTCATAATCGTAGAGGACATAATGATGGTGAAGATTCCTTGACTCATAACAGATGTCAGCTCTTT
CCAGACAATGGACCAATGGTGTCAAATATGAGAACTATATGCAGAAATTAGAAAGAACTTCATAAAG
GAAACCAGGAAAGCAATGAGAGATTCTGACAGTGGACTAGAAAAATGGCTATTGGTCATCATATCCATG
ACCGAGCTCATGTCATTA AAAAGTCAAAGAACAAGAAGACTGGAGATGAAGAGGTCAACCAGGAGTTCAT
CAATATGAATGAAAGTGATGCTCATGCTTTTGATGAGGAGTGGCAAAGTGAGTTTTGAAGTACAAACCA
GGACGACACAATCTAGGAAACACTAGAATGAGAAGTGTGGCCATGAGAATCCTGGCTCCCGAGAACTTA
AAAGAAGGGAGAAACCTCAACAAAGTCCAGCCATTGAACATGGAAGGAGATCAAATGTTTTGGGGACAA
ACTCCACATCAAAGGCTCATCTGTGAAAAGCAACAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231047 representing NM_001195433
Red=Cloning site Green=Tags(s)

MRQMIRSFSEPFGRDLLSISDGRGRAHNRGRHNDGEDSLTHTDVSSFQTMQMVSNMRNYMQKLERNFIK
ETRKAMRSDSGLKMAIGHHIHDRAHVIKKSKNKKTGDEEVNQEFINMNESDAHAFDEEWQSEVLKYKP
GRHNLGNTRMRSVGHENPGSRELKRREKPPQSPAIEHGRRSNVLGDKLHIKSSSVKSNKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

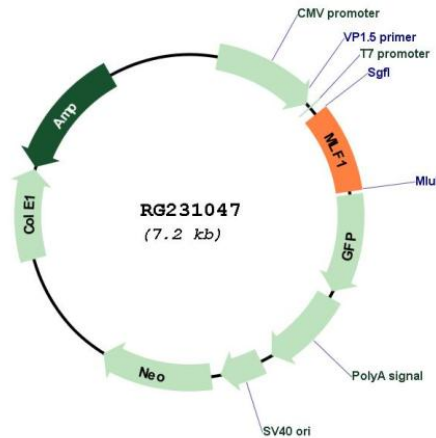


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001195433

ORF Size: 600 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_001195433.2
RefSeq Size:	2207 bp
RefSeq ORF:	603 bp
Locus ID:	4291
UniProt ID:	P58340
Cytogenetics:	3q25.32
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes an oncoprotein which is thought to play a role in the phenotypic determination of hemopoetic cells. Translocations between this gene and nucleophosmin have been associated with myelodysplastic syndrome and acute myeloid leukemia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2010]