

## Product datasheet for **RG202774**

### Myeloid leukemia factor 1 (MLF1) (NM\_022443) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myeloid leukemia factor 1 (MLF1) (NM_022443) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myeloid leukemia factor 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202774 representing NM_022443 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTT**CAGGATGCTGAACAGCAGTTTTGAGGATGACCCCTTCTTCTCTGAGTCCATTCTTGCACACCGAG**  
AAAATATGCGACAGATGATAAGAAGTTTTCTGAACCCTTTGAAGAGACTTGCTCAGTATCTCTGATGG  
TAGAGGGAGAGCTCATAATCGTAGAGGACATAATGATGGTGAAGATTCTTTGACTCATACAGATGTCAGC  
TCTTTCCAGACAATGGACCAAATGGTGTCAAATATGAGAACTATATGCAGAAATTAGAAAGAAACTTCG  
GTCAACTTTCAGTGGATCCAAATGGACATTCATTTTGTCTTCC**TAGTTATGACTTATTCCAAAATAGG**  
AGATGAACCGCCAAAGGTTTTTCAGGCCTCAACTCAA**ACTCGTCGAGCTCCAGGAGGAATAAAGGAAACC**  
AGGAAAGCAATGAGAGATTCTGACAGTGGACTAGAAAAATGGCTATTGGTCATCATATCCATGACCGAG  
CTCATGTCATTAAAAAGTCAAAGAA**CAAGAAGACTGGAGATGAAGAGGTCAACCAGGAGTTCATCAATAT**  
GAATGAAAGT**GATGCTCATGCTTTT**GATGAGGAGTGGCAAAGT**GAGGTTTT**GAAGTACAAACCAGGACGA  
CACAATCTAGGAA**CACTAGAA**TGAGAAGT**GTTGGCCATGAGAATCCTGGCTCCCGAGA**ACTTAAAGAA  
GGGAGAA**ACTCAACAAAGTCCAGCCATTGAACATGGAAGGAGATCAAATGTTTTGGGGACAACTCCA**  
CATCAAAGGCTCATCTGTGAAAAGCAACAAAAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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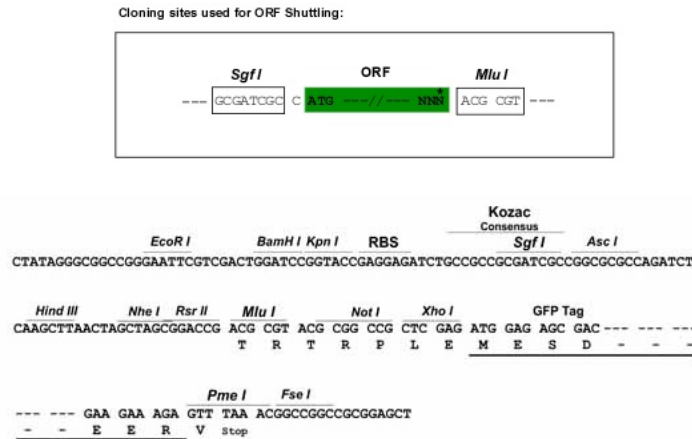
**Protein Sequence:** >RG202774 representing NM\_022443  
Red=Cloning site Green=Tags(s)

MFRLNSSFEDDPFFSEILAHRENMRQMIRSFSEPFGRDLLSISDGRGRAHNRGRHNDGEDSLTHTDVS  
 SFQTMQMVSNMNRNYMQKLERNFQQLSVDPNGHSFCSSSVMTYSKIGDEPPKVFQASTQTRRAPGGIKET  
 RKAMRSDSGLKMAIGHHHIHRAHVIKSKNKKTGDEEVNQEFINMNESDAHAFDEEWQSEVLKYKPGR  
 HNLGNTRMRSVGHENPGSRELKRREKPPQSPAIEHGRRSNVLGDKLHIKGSVSKNKK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022443

**ORF Size:** 804 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\\_022443.5](#)

**RefSeq Size:** 1130 bp

**RefSeq ORF:** 807 bp

**Locus ID:** 4291

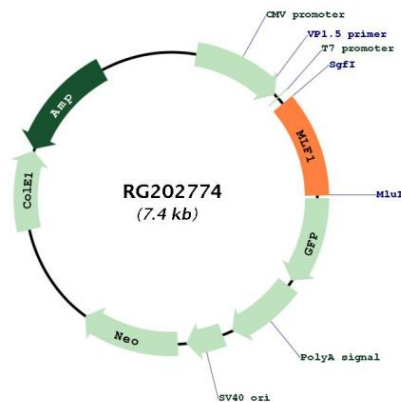
**UniProt ID:** [P58340](#)

**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]

## Product images:



Circular map for RG202774