

Product datasheet for **SC112512**

Myeloid leukemia factor 1 (MLF1) (NM_022443) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myeloid leukemia factor 1 (MLF1) (NM_022443) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myeloid leukemia factor 1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_022443 edited
GAATTCGGCACGAGGGTTAACATCGTTTTTCCAATCTGTCCGCGGCTGCCGCCACCCAAG
ACAGAGCCAGAATGTTTCAGGATGCTGAACAGCAGTTTTGAGGATGACCCCTTCTTCTCTG
AGTCCATTCTTGCATACCGAGAAAATATGCGACAGATGATAAGAAGTTTTCTGAACCCT
TTGGAAGAGACTTGCTCAGTATCTCTGATGGTAGAGGGAGAGCTCATAATCGTAGAGGAC
ATAATGATGGTGAAGATTCTTTGACTCATAACAGATGTCAGCTCTTCCAGACAATGGACC
AAATGGTGTCAAATATGAGAACTATATGCAGAAATTAGAAAAGAACTTCGGTCAACTTT
CAGTGGATCCAAATGGACATTCATTTTGTCTTCTCAGTTATGACTTATTCCAAAATAG
GAGATGAACCGCAAAGTTTTTTCAGGCCTCAACTCAAACCTCGTCGAGCTCCAGGAGGAA
TAAAGGAAACCAGGAAAGCAATGAGAGATTCTGACAGTGGACTAGAAAAAATGGCTATTG
GTCATCATATCCATGACCGAGCTCATGTCATTAAGAAAGTCAAAGAACAAGAAGACTGGAG
ATGAAGAGGTCAACCAGGAGTTCATCAATATGAATGAAAGTGATGCTCATGCTTTTGATG
AGGAGTGGCAAAGTGAGGTTTTGAAGTACAAACCAGGACGACACAATCTAGGAAACTA
GAATGAGAAGTGTGGCCATGAGAATCCTGGCTCCCGAGAACTTAAAAGAAGGGAGAAAC
CTCAACAAAGTCCAGCCATTGAACATGGAAGGAGATCAAATGTTTTGGGGGACAAACTCC
ACATCAAAGGCTCATCTGTGAAAAGCAACAAAAATAAATAGCCATGCATTTGATTTGTT
TAGTTTTGATTGTTTTAACAGTTAGTAATGGTGCTGGGTAAATAAGCATAAGACCAATCTC
TTGCTGTTAAATCAGTTCTGTCCCTTTTGGCAACTTTCTTCTGATATCTGAATGTTTCAAG
GTCCTAGCTTTATATTGTCCCTTTTTAGGAATAAAATTTTGAATTTTCAACAATGTGAGT
AAATTGAGTCTATTTAATGTAAGTCTTTAAACATACTAATTTTTTAAAGCTTATATG
CTTATTTTCGCTTCCCGAGTTGTTTTGTGTTGGCTAAATATTCTTTTATATTTATCAAGA
TTGATTGCAGAGCAGTTCTATCACTTATAATTAGTTATAAGAAATTATAATGTTAAAAAA
GTCTCAGTTTTTACTAACACTGTACTAGGGTGATTAATAAAAAGTTTTAAATAATTTAT
CTCTAATTTTATAATGTGTTGTAAGCCAACTAGCTTAAAACCTTAAAAATAATAAAGCA
AAACTACACTAGTACTCTTTTATGAGAAAATAGTTACTATTTTGATAAAGGGCAAGGATA
ATCAAATAGTTCATTTTCAGAGAAAAATTTTTAAATTGCTAATGTACATGATTGTTTTG
GTTATAATTTATTTATAGAATGTATCTTTTCTATATTACATTCTAATATTCACCAGATA
TTATATTGACCATTCTCTTAACTTCTTAATGTGGCATAATTTCTACTCTCCTTTCCACA
AACAGCTTCATCTGTCTCCAAGGTTAACATTCTGAAGCTGGAGAGTCCTGGAGAAACTC
TGCTCAGCTTTTTTGTGACATTTAGAAAAATGCATTTGGTATTCTCCAAACCAGAATGAT
ACATTGTCTCAAATCTGTTAGACAGCTGATGGGTGTTTTGAGCAACGTCTTAATAATT
CAGTTGTTTCTGTTTTAATTATACCATTAATAATCAGCTTTAGCTTTTTAATTCTAGAAT
TTAAGCATCAGTCTGTTCTTATAAAAAGTTAGGTTTGAAGTTTATAAGAATATAAAATCTT
AACTCACATTTGTTGTTAATATTTCTGTCAAGGAAAAAAGCCCCAAAAAATTGCTATCA
CTCTATAATCCTAAGTATTTTTCTTTTCAATTTTGAAGTAAAATTATATGACTATGTTT
ATACTTCTCTAATTTTACTTACAAAAAATAAAAAAAAAAATACTCGAC
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022443 unedited</p> <pre> TTCAAATTTGTATACGACTCACTATAGGCGGCCCGCAATTCGCACGAGGGTTAACATCG TTTTTCCAATCTGTCCGCGGCTGCCGCCACCCAAGACAGAGCCAGAATGTTCCAGGATGCT GAACAGCAGTTTTGAGGATGACCCTTCTCTCTGAGTCCATTCTTGCATACCGAGAAAA TATGCGACAGATGATAAGAAGTTTTCTGAACCTTTGGAAGAGACTTGCTCAGTATCTC TGATGGTAGAGGGAGAGCTCATAATCGTAGAGGACATAATGATGGTGAAGATTCTTTGAC TCATACAGATGTCAGCTTTCCAGACAATGGACCAAATGGTGTCAAATATGAGAACTA TATGCAGAAATTAGAAAGAACTTCGGTCAACTTTCAGTGGATCCAAATGGACATTCATT TTGTTCTTCTCAGTTATGACTTATTCCAAAATAGGAGATGAACCGCAAAGTTTTTCA GGCCTCAACTCAAACCTCGTCCGAGCTCCAGGAGGAATAAAGGAAACCAGGAAAGCAATGAG AGATTCTGACAGTGGACTAGAAAAATGGCTATTGGTCATCATATCCATGACCGAGCTCA TGTCATTA AAAAGTCAAAGAACAAGAAGACTGGAGATGAAGAGGTCCACCAGGAGTTCAT CAATATGAATGAAAGTGATGCTCATGCTTTTGATGANGAGTGGCACAGTGAGGTTTTGAA GTCCAACCGAGACGACACAATCTAGGAAACACTAGNATGAGAAGTGTGGCCATGAGAAT CCTGGCTCCCGAGAACTTAAAAGAAGGNAGAAACCTCACANAGTCCAGCCATTGAACATG GAAAGGAGACCAATGTTTTGGGGGACAACCTCCCATCAAAGCTCATCTGTGAAAAGCAC AAAAAATAATAGCCTGCATTTGATTGGTTAGTTA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_022443 unedited</p> <pre> TTTGGACGCGGCCGCTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAAAGTAAATTA GAGAAGTATGAACATAGTCATATAATTTTACTTACAAAATTGAAAAGAAAAAACTTAGGA TTATAGAGTGATAGCAATTTTTGGGGGCTTTTTTCCTTGACAGAAATATTAACAACAAA TGTGAGTTAAGATTTTATATTCTTATAAACTTCAAACCTAACTTTTATAAGAACAGACTG ATGCTTAAATTCTAGAATTA AAAAGCTAAAGCTGATTTTTAATGGTATAATTA AACAGA AACAACTGAATTAAGACGTTGCTCAAAAACCCCATCAGCTGTCTAACAGATTTTGA GACAATGTATCATTCTGGTTTGGAGAATACCAAATGCATTTTTCTAAATGTCACAAAAAA GCTGAGCAGAGTTTCTCAAGGACTCTCCAGCTCAGAATGTTAACCTTGGAGACAGATG AAGCTGTTTGTGGGAAAGGAGAGTAGAAATATGCCACATTAAGAAGTTAAAGAGAATGGT CAATATAATATCTGGTGAATATTAAGAATGTAATATAGAAAAGATACATTCTATAAATAA ATTATAACCAAAAACAATCATGTACATTAGCAATTTAAAATATTTTTCTCTGAAAATGAAC TATTTGATTATCCTTGCCCTTTATCAAAAATAGTAACTATTTTCTATAAAAAGAGTACTAG TGCAGTTTTGCTTTATTATTTTTAAAGCTTTAAGCTAGTTGCCTTTACACACATTATAAA ATTAGAGATAAATTATTTAAACCTTTATTAATATCACCTAGTACAGTGTTCAGTAAAAC TGANACTTTCTTACATTATAATTTCTTATACTAATATAAGTGAAGAAGTCTCTGCATCC ATCCTGCAAACATAAAGAATATTTACCCACCCACAACCACTGGGGAGCGAAATAGCCCA TAGCCTTAAAACCATCCGTTCCAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_022443
Insert Size:	2110 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_022443.2](#), [NP_071888.1](#)

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]

Transcript Variant: This variant (1) differs in the 5' UTR and has multiple differences in the coding region, but maintains the reading frame compared to variant 4. This variant encodes isoform 1, which is shorter than isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.