

## Product datasheet for RC201746

### MLF2 (NM\_005439) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MLF2 (NM_005439) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLF2
Synonyms:	NTN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201746 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCCGCTTCATGAGGGACGTGGAGCCTGAGGATCCCATGTTCCCTGATGGATCCCTTTGCTATTCACC  
GTCAGCATATGAGCCGTATGTTGTCAGGTGGCTTTGGATATAGCCCTTCCTCAGCATCACAGATGGCAA  
CATGCCAGGGACAGGCCTGCCAGCCGCCGGATGCAGCAGGCTGGAGCTGTCTCCCCTTTGGGATGCTG  
GGAATGTCGGGTGGTTTCATGGACATGTTGGGATGATGAATGACATGATTGAAACATGGAACACATGA  
CAGCTGGAGGCAATTGCCAGACCTTCTCATCTTCCACTGTCATCTCCTACTCCAATACGGGTGATGGTGC  
CCCAAGGTCTACCAAGAGACATCAGAGATGCGCTCGGCACCAGGCGGGATCCGGGAGACACGGAGGACT  
GTTCCGGATTCCAGACAGTGGACTGGAGCAGATGTCCATTGGGCATCACATCCGGGACAGGGCTCACATCC  
TCCAGCGCTCCCGAAACCATCGCACGGGGGACCAGGAGGAGCGGCAGGACTATATCAACCTGGATGAGAG  
TGAGGCCGACGCTTTGATGACGAGTGGCGGGGAGACCTCCCGATTCCGGCAGCAGCGTCCCCTGGAG  
TTTCGGCGGCTTGGTCTCAGGGGCTGGGGGACGAAGGGCGGAGGGGCTCCCCGCTGGCCATCCAGG  
GACCTGAGGACTCCCCTCCCGACAGTCCCGCCGCTATGACTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201746 protein sequence  
 Red=Cloning site Green=Tags(s)

MFRFMRDVEPEDPMFLMDPFAIHRQHMSRMLSGGFGYSPFLSITDGNMPGTRPASRRMQAGAVSPFGML  
 GMSGGFMDMFGMMNDMIGNMEHMTAGGNCQTFSSSTVISYSNTGDGAPKVYQETSEMRAPGGIRETRRT  
 VRDSDSGLQMSIGHHIRDRAHILQRSNRHRTGDQEERQDYINLDESEAAAFDDEWRRETSTRFRQQRPLE  
 FRRLESSGAGGRRRAEGPPRLAIQGPEDSPSRQSRRYDW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6376\\_c03.zip](https://cdn.origene.com/chromatograms/mk6376_c03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_005439

**ORF Size:** 744 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\\_005439.2](#)

**RefSeq Size:** 1391 bp

**RefSeq ORF:** 747 bp

**Locus ID:** 8079

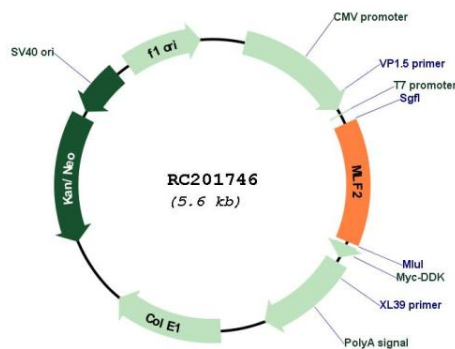
**UniProt ID:** [Q15773](#)

**Cytogenetics:** 12p13.31

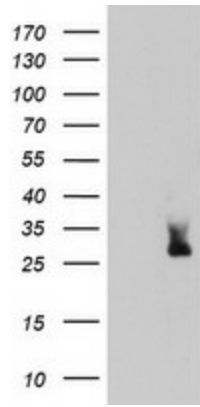
**Protein Families:** Transmembrane

**MW:** 28.1 kDa

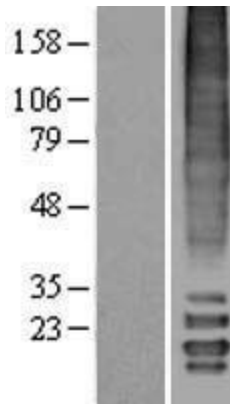
**Product images:**



Circular map for RC201746



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MLF2 (Cat# RC201746, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MLF2 (Cat# [TA504844]). Positive lysates [LY417302] (100ug) and [LC417302] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417302]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201746 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).