

## Product datasheet for **MR208947**

### Lmf1 (NM\_029624) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lmf1 (NM_029624) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lmf1
Synonyms:	2400010G15Rik; AW822050; cld; Tmem112
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208947 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCGCCCGAGGGTTCGCTGAGAAAACGGAAGTTCGGGGTTCGGGAGCACAGTCCAGCGTCGCAAC  
 CTTCTCTGGCTAGAGATCCCGCAGATTCTCCAGCTCGGCTGCACACGGGCACCTTCTGGCTGACTAGAAT  
 CGTGCTCTCGGGCCCTCGCTTTCATTTACTTTGTGGCCTTTTTGGTGGCATTCAATCAGAACAAGGCC  
 CTCATCGGTGACCGGGCCTGCTGCCCTGCAAACGTACCTGAAGAATGCCAGGAGTACTCCAGGGCA  
 GCACTGGCTGGGCTGCCTGGACCTATGCACCAACCATTATGTGGTTGTTGGACTGGTCCAGACATGAACCT  
 CAACCTGGACCTCATTGCTCTTCTGGGCTGGGCATCTCGTCTTTGTCCTGGTACCGGCTGTGCCAAC  
 ATGATACTCATGACTGCCCTCTGGGCCCTACATGTCCCTGGTCAACGTAGGGCAGATCTGGTATTCTT  
 TTGGATGGGAGTACAGCTGCTGAAAACAGGATTCCTGGGGATCTTTCTGAGCCCTCTGAGACTGTC  
 CCGCTGCCAAGAACACCCACATCCAGATTGTCCTGTGGGGCTCCGCTGGCTGATCTTCAGAAC  
 ATGCTTGGAGCGGCCTCATCAAGTCCCGGGGACAAGTGTGGCTGGATCTGACTGCATGGACTTCC  
 ACTATGAGACTCAGCCGTGCCAACCCGATAGCCTACTACCTGCACAGGTCACCATGGTGGTTCCACCG  
 CTTTGAGACCCTCAGCAACCACTTCGTGGAGCTTCTTGTGCCTTTCTTCTGTTCCCTGGACGGCGGATG  
 CGCATTCTTATGGAGTGTGCAGATCCTTTCCAGGTGATCCTCATCATCAGTGGGAACCTGAGCTTCC  
 TGAAGTGGCTCACCATCGTGCACGCTTGCCTGCTTCGACGATGCAGCTCTGGGATTCTGTTCCTC  
 AGGACCTCAAGGCCTAAAGAAGCAAGTCTGGAGATTGAGAGGAAGATACACAAAGGTCAGCCCAAG  
 CCAAGAGACAGAGGCTGCTTGGTGGCGCAAGTGGTCAACATCTCCCTGGGCATCCTGGTGGCCTGGCTCA  
 GCGTACCCGTGGTTATCAATCTGCTAAGCTCCAGGCAGATCATGAACACCTCCTTCAACCCGCTCAGGAT  
 CGTCAACACCTATGGGGCCTTTGGAAGTGTACCAAAAGAGCGGACTGAGGTGATCCTGCAGGGCACAGTG  
 AGCCCCAACGCCAGCGCACCTGATGCAGTGTGGGAAGACTATGAGTTCAAGTGAACACCGGGCGACCCCT  
 GGAGGCAGCCATGCCTCATCTCGCCATACCACTACCGCCTGGACTGGCTGATGTGGTTTCGACGCTTCCA  
 GACCTATGAGCAGAACGAGTGGATCCTTCTGCGGGTAAAGCTCCTAGCTGGTACTCTGAAGCCCTG  
 GCCCTACTTGCTGTTAACCCCTTGGAGGCAGGACTCCCCCAGGTGGATCCGAGGAGAACACTACCGGT  
 ACAAGTTCAGCCTCCCCGGGGCCAGCACGCCACCCAGGCAAGTGGTGGATCCGCAAGCGAATTGGTCC  
 TTACTTCCCCCACTCCGCCAGGAGGATCTGAAGGAATACTTTAAGACTCGGGAGTGGCCACTACCAGAA  
 CCCCCATCTAGACACACACGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208947 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAPEGSLRKRKVGGAEHSPASQPSLARDPADSPARLHTGTFWLTRIVLLRALAFIYFVAFVAFNQNKAL  
 LIGDRGLLPCKLYLKNVQEQYFQGSTGWAAWTYAPTIMWLLDWSDMFNLDLIALLLGLISSFVLTGCAN  
 MILMTALWALYMSLVNVGQIYWYFQGWESQLLETGFLGIFLSPWLTLRSLPKNTPTSQIVLWGFRLIFRI  
 MLGAGLIKVRGDKCWLDTLTCMDFHYETQVVPNPVIAYYLHRSPWWFHRFETLSNHFVELLVPFFLGRM  
 RILHGVLQILFQVILIIISGNLSFLNWLTIIVPSLACFDDAALGFLFSPGPQLKKQVLEIQREDTQRVQPK  
 PRDRGCLVRQVVISLILVAVLSVPVIVINLLSSRQIMNTSFNPLRIVNTYGAFGSVTKERTEVILQGTV  
 SPNASAPDAVWEDYEFKCKPGDPWRQPCLISPYHYRLDWMWFAAFQTYEQNEWILHLAGKLLAGDSEAL  
 ALLAVNPFEGRTPPRWIRGEHYRYKFSLPGGQHATQGKWWIRKRIQPYFPPLRQEDLKEYFKTREWPLPE  
 PPSRHTR

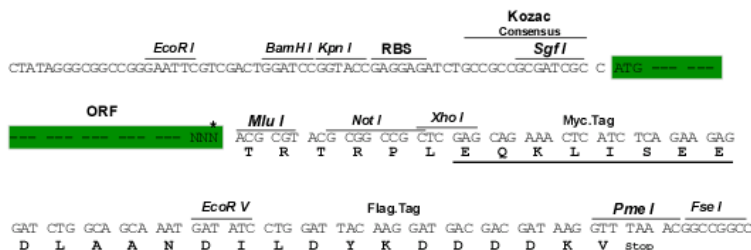
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_029624

**ORF Size:** 1704 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\\_029624.2](#), [NP\\_083900.2](#)
**RefSeq Size:** 1861 bp

**RefSeq ORF:** 1725 bp

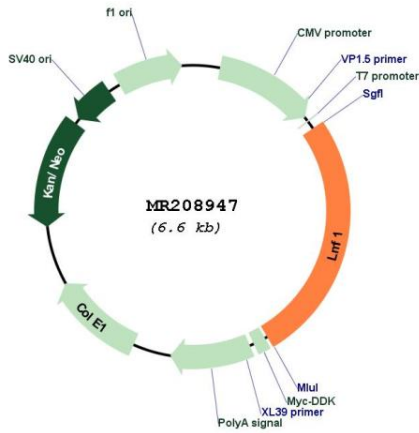
**Locus ID:** 76483

**UniProt ID:** [Q3U3R4](#)
**Cytogenetics:** 17 12.7 cM

**MW:** 65.1 kDa

**Gene Summary:** Involved in the maturation of specific proteins in the endoplasmic reticulum. Required for maturation and transport of active lipoprotein lipase (LPL) through the secretory pathway. Each LMF1 molecule chaperones 50 or more molecules of LPL.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208947