

Product datasheet for MR225997

Ifitm1 (NM_001112715) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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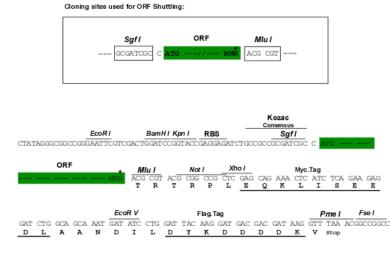
Product Type:	Expression Plasmids
Product Name:	lfitm1 (NM_001112715) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	lfitm1
Synonyms:	1110036C17Rik; DSPA2a; Mil-2; Mil2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR225997 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCTAAGGAGCAGCAAGAGGTGGTTGTACTGGGGTCACCCCACATCTCAACTTCTGCGACAGCCACCA CAATCAACATGCCTGAGATCTCCACGCCTGACCATGTGGTCTGGTCCCTGTTCAATACACTCTTCATGAA CTTCTGCTGCCTGGGCTTCGTAGCCTATGCCTACTCCGTGAAGTCTAGGGACAGGAAGATGGTGGGTG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR225997 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MPKEQQEVVVLGSPHISTSATATTINMPEISTPDHVVWSLFNTLFMNFCCLGFVAYAYSVKSRDRKMVGD TTGAQAFASTAKCLNISSLFFTILTAIVVIVVCAIR
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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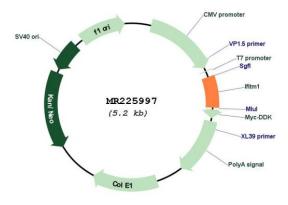


Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:
ORF Size:
OTI Disclaimer:

NM_001112715

321 bp

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. <u>More info</u>

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Service Price Pric		
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001112715.1, NP 001106186.1</u>	
RefSeq Size:	702 bp	
RefSeq ORF:	321 bp	
Locus ID:	68713	
UniProt ID:	<u>Q9D103</u>	
Cytogenetics:	7 F5	
MW:	11.5 kDa	
Gene Summary:	IFN-induced antiviral protein which inhibits the entry of viruses to the host cell cytoplasm, permitting endocytosis, but preventing subsequent viral fusion and release of viral contents into the cytosol. Active against multiple viruses, including influenza A virus, SARS coronavirus (SARS-CoV), Marburg virus (MARV), Ebola virus (EBOV), Dengue virus (DNV) and West Nile virus (WNV). Can inhibit: influenza virus hemagglutinin protein-mediated viral entry, MARV and EBOV GP1,2-mediated viral entry and SARS-CoV S protein-mediated viral entry. Also implicated in cell adhesion and control of cell growth and migration. Plays a key role in the antiproliferative action of IFN-gamma either by inhibiting the ERK activation or by arresting	

cell growth in G1 phase in a p53-dependent manner. Acts as a positive regulator of osteoblast

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differentiation.[UniProtKB/Swiss-Prot Function]