

Product datasheet for **MC200663**

Ifitm3 (NM_025378) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ifitm3 (NM_025378) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ifitm3
Synonyms:	1110004C05Rik; Cd225; Cdw217; DSPA2b; Fgls; IP15; mil-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC010291 sequence for NM_025378 CCCCAGCGCGCTCCATCCTTTGCCCTTCAGTGCCTTTGCTCCGCACCATGAACCACACTTCTCAAG CCTTCATCACCAGTCCAGTGGAGGACAGCCCCAAACTACGAAAGAATCAAGGAAGAATATGAGGTGGC TGAGATGGGGGCACCGCACGGATCGGCTTCTGTCAAGAATACTGTGATCAACATGCCAGAGAGGTGTCG GTGCCTGACCATGTGGTCTGGTCCCTGTTCAATACACTCTTCATGAACCTCTGCTGCCTGGGCTTCATAG CCTATGCCTACTCCGTGAAGTCTAGGGATCGGAAGATGGTGGGTGATGTGACTGGAGCCCAGGCCTACGC CTCCACTGCTAAGTGCCTGAACATCAGCACCTTGGTCCCTCAGCATCCTGATGGTTGTTATCACCATTGTT AGTGTATCATCATTGTTCTTAACGCTCAAAACCTTCACACTTAATAGAGGATCCGACTCCGGTCCCTG AAGTGCTTACCCTCCGAGCTGCGTCCCTCCTTGCCCTCCCTACACGCAGGTGTAACACTCATTATC TATCCACAGTGGATTCAATAAAGTGCACCTTGATAACCACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA A
Restriction Sites:	RsrII-NotI
ACCN:	NM_025378
Insert Size:	414 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).



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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: [BC010291](#), [AAH10291](#)

RefSeq Size: 631 bp

RefSeq ORF: 414 bp

Locus ID: 66141

UniProt ID: [Q9CQW9](#)

Cytogenetics: 7 F5

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) and Ebola virus (EBOV), Dengue virus (DENV), West Nile virus (WNV) and human immunodeficiency virus type 1 (HIV-1). 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. Plays a critical role in the structural stability and function of vacuolar ATPase (v-ATPase). Establishes physical contact with the v-ATPase of endosomes which is critical for proper clathrin localization and is also required for the function of the v-ATPase to lower the pH in phagocytic endosomes thus establishing an antiviral state. Involved in initiating germ cell competence and specification, and in the demarcation of PGCs from their somatic neighbors.[UniProtKB/Swiss-Prot Function]