

Product datasheet for **MG225996**

Ifitm1 (NM_026820) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ifitm1 (NM_026820) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ifitm1
Synonyms: 1110036C17Rik; DSPA2a; Mil-2; Mil2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225996 representing NM_026820
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTAAGGAGCAGCAAGAGGTGGTTGTACTGGGGTCACCCACATCTCTACTTCTGCGACAGCCACCA
CAATCAACATGCCTGAGATCTCCACGCCTGACCATGTGATCTGGTCCCTGTTCAATACACTCTTCATGAA
CTTCTGCTGCCTGGGCTTCATAGCCTATGCCTACTCCGTGAAGTCTAGGGACAGGAAGATGGTGGGTGAT
ACGACTGGGGCCAGGCCTTCGCCTCCACGCCAAGTGCCTGAACATCAGCTCCCTGTTCTCACCATCC
TCACGGCCATCGTCGTCATCGTTGTCTGTGCCATTAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225996 representing NM_026820
Red=Cloning site Green=Tags(s)
MPKEQQEVVVLGSPHISTSATATTINMPEIISTPDHVIWLSLFNTLFMNFCLGFIAAYSVKSRDRKMVGD
TTGAQAFASTAKCLNISSLFFILTIVVIVVCAIR

TRTRPLE - GFP Tag - V

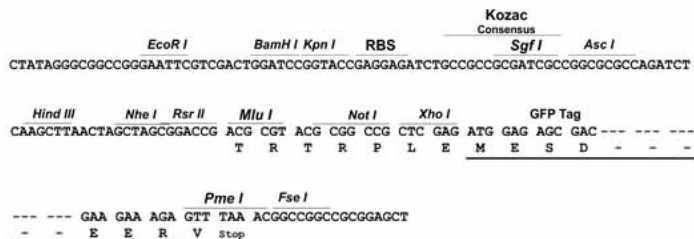
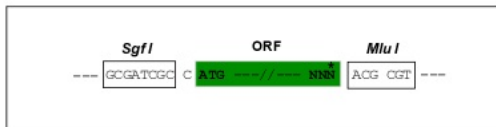
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_026820

ORF Size: 318 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_026820.2](#)

RefSeq Size: 676 bp

RefSeq ORF: 321 bp

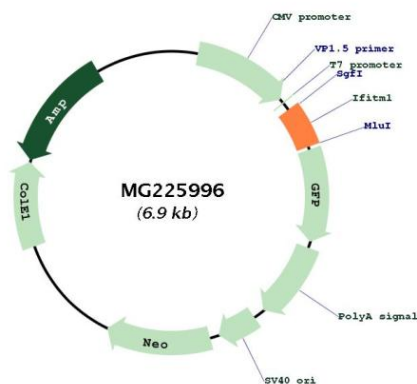
Locus ID: 68713

UniProt ID: [Q9D103](#)

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), Ebola virus (EBOV), Dengue virus (DENV) 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 differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225996