

Product datasheet for RC201635

IFITM3 (NM_021034) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFITM3 (NM_021034) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IFITM3
Synonyms: 1-8U; DSPA2b; IP15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201635 representing NM_021034
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCACACTGTCCAACCTTCTTCTCTCCTGTCAACAGTGGCCAGCCCCCAACTATGAGATGCTCA
AGGAGGAGCACGAGGTGGCTGTGCTGGGGCGCCCCACAACCCTGCTCCCCGACGTCCACCGTGATCCA
CATCCGCAGCGAGACCTCCGTGCCCGACCATGTCGTCTGGTCCCTGTTCAACACCCTCTTATGAACCC
TGCTGCCTGGGCTTCATAGCATTGCCTACTCCGTGAAGTCTAGGGACAGGAAGATGGTTGGCGACGTGA
CCGGGGCCAGGCTATGCCTCCACCGCAAGTGCCTGAACATCTGGGCCCTGATTCTGGGCATCCTCAT
GACCATTCTGCTCATCGTCATCCAGTGTGATCTCCAGGCCTATGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201635 representing NM_021034
Red=Cloning site Green=Tags(s)

MNHTVQTFSPVNSGQPPNYEMLKEEHEVAVLGAPHNPAPPTSTVIHIRSETSVPDHHVWVSLFNTLFMNP
CCLGFIAFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGILMTILLIVIPVLIFQAYG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3065_h06.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:

ACCN: NM_021034

ORF Size: 399 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_021034.3](#)

RefSeq Size: 808 bp

RefSeq ORF: 402 bp

Locus ID: 10410

UniProt ID: [Q01628](#)

Cytogenetics: 11p15.5

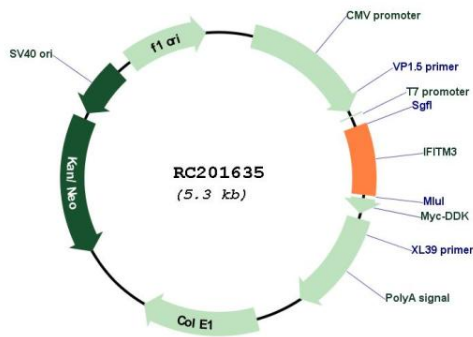
Domains: CD225

Protein Families: Transmembrane

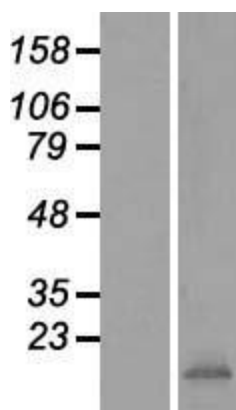
MW: 14.5 kDa

Gene Summary: The protein encoded by this gene is an interferon-induced membrane protein that helps confer immunity to influenza A H1N1 virus, West Nile virus, and dengue virus. Two transcript variants, only one of them protein-coding, have been found for this gene. Another variant encoding an N-terminally truncated isoform has been reported, but the full-length nature of this variant has not been determined. [provided by RefSeq, May 2012]

Product images:



Circular map for RC201635



Western blot validation of overexpression lysate (Cat# [LY412107]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201635 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).