

Product datasheet for **RG202067**

IFITM2 (NM_006435) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFITM2 (NM_006435) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IFITM2
Synonyms: 1-8D; DSPA2c
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202067 representing NM_006435
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCACATTGTGCAAACCTTCTCTCCTGTCAACAGCGGCCAGCCTCCCAACTACGAGATGCTCAAGG
AGGAGCAGGAAGTGGCTATGCTGGGGCGCCCCACAACCCTGCTCCCCGACGTCCACCGTGATCCACAT
CCGCAGCGAGACCTCCGTGCCTGACCATGTCGTCTGGTCCCTGTTCAACACCCTTTCATGAACACCTGC
TGCTGGGCTTCATAGCATTGCTACTCCGTGAAGTCTAGGGACAGGAAGATGGTTGGCGACGTGACCG
GGCCCCAGGCCTATGCCTCCACCCCAAGTGCCTGAACATCTGGGCCCTGATTTTGGGCATCTTCATGAC
CATTCTGCTCGTCATCATCCAGTGTGGTCCAGGCCAGCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202067 representing NM_006435
Red=Cloning site Green=Tags(s)
MNHIVQTFSPVNSGPPNYEMLKEEQEVAMLGAPHPAPPTSTVIHIRSETSVDPHVVWVSLFNTLFMNTC
CLGFIAFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGIFMTILLVIIPVLVVQAQR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_006435

ORF Size: 396 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_006435.1](#), [NP_006426.1](#)

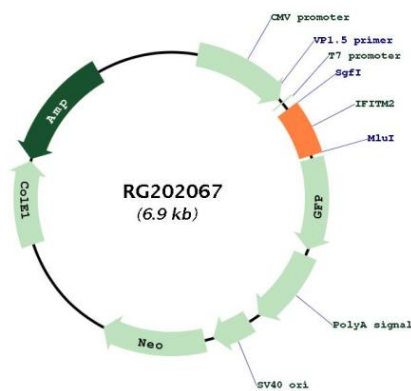
RefSeq Size: 905 bp

RefSeq ORF: 399 bp

Locus ID: 10581
UniProt ID: [Q01629](#)
Cytogenetics: 11p15.5
Domains: CD225
Protein Families: Transmembrane
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), West Nile virus (WNV), human immunodeficiency virus type 1 (HIV-1) and vesicular stomatitis virus (VSV). Can inhibit: influenza virus hemagglutinin protein-mediated viral entry, MARV and EBOV GP1,2-mediated viral entry, SARS-CoV S protein-mediated viral entry and VSV G protein-mediated viral entry. Induces cell cycle arrest and mediates apoptosis by caspase activation and in p53-independent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202067