

## Product datasheet for **SC124192**

### IFITM2 (NM\_006435) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IFITM2 (NM_006435) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFITM2
Synonyms:	1-8D; DSPA2c
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124192 sequence for NM_006435 edited (data generated by NextGen Sequencing)

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ATGAACCACATTGTGCAACCTTCTCTCCTGTCAACAGCGGCCAGCCTCCCAACTACGAG
ATGCTCAAGGAGGAGCAGGAAGTGGCTATGCTGGGGGCGCCCCACAACCTGCTCCCCCG
ATGTCCACCGTGATCCACATCCGAGCGAGACCTCCGTGCCTGACCATGTCGTCTGGTCC
CTGTTCAACACCCTTTCATGAACACCTGCTGCCTGGGCTTCATAGCATTGCTACTCC
GTGAAGTCTAGGGACAGGAAGATGGTTGGCGACGTGACCGGGGCCAGGCCTATGCCTCC
ACCGCCAAGTGCCTGAACATCTGGGCCCTGATTTTGGGCATCTTCATGACCATTCTGCTC
ATCATATCCCAGTGTGGTTCGTCAGGCCAGCGATAG
```

Clone variation with respect to NM\_006435.2  
98 t=>c;171 g=>c;234 g=>c



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006435 unedited            TTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGATCACCCTGG            TCACCATGAACCACATTGTGCAAACCTTCTCCTGTCAACAGCGGCCAGCCTCCCAACT            ACGAGATGCTCAAGGAGGAGCAGGAAGTGGCTATGCTGGGGGCGCCCAACCCCTGCTC            CCCCAGTGTCCACCGTATCCACATCCGCAGCGAGACCTCCGTGCCTGACCATGTCGTCT            GGTCCCTGTTCAACACCCTCTTCATGAACACCTGCTGCCTGGGCTTCATAGCATTGCGCT            ACTCCGTGAAGTCTAGGGACAGGAAGATGGTTGGCGACGTGACCGGGGCCAGGCATATG            CCTCCACCGCAAGTGCCTGAACATCTGGGCCCTGATTTGGGCATCTTCATGACCATTCT            TGCTCATCATCATCCCAGTGTGGTCCAGGCCAGCGATAGATCAGGAGGCATCATT            GAGGCCAGGAGCTCTGCCCGTGACCTGTATCCCACGTAATCTTCCATTCTCGCCC            TGCCCCCAGAGGCCAGGAGCTCTGCCCTTGACCTGTATCCACTTACTCCACCTTCCATT            CCTCGCCCTGTCCCACAGCCGAGTCTGCATCAGCCCTTATCCTCACACGCTTTTCTA            CAATGGCATTCAATAAAGTGTATANTGTTTCTGGTAAAAAAAAAAAAAAAAACTCGACTC            TAGATTGGGCGCCGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCNTGTGAC            CCCTCCCGTGCCTCTCCTGGCCCTGAAGTTGCCACTNCAGTGCCACCAGCCTTTGTC            TAATAAAATAAAGTGCATCATTTTGTCTGACTANGGTGTCTCATAATATGTGGGGGGGG            GGGGGGGNGTGGNNNNNNNNNNGGGAGGGGNNNTNGGAGAGAAAAC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006435 unedited            NNTTATCTCTGNNACCGCGCCCGCATTCTNANNATCGAGTTTTTTTTTTTTTTTTTTTAC            CAAAAACATATACTTTATTGAATGCCATTGTAGAAAAGCGTGTGAGGATAAAGGGCTG            ATGCAGGACTCGCTGTGGGACAGGGCGAGGAATGGAAGGTGGAGTAAGTGAATACAG            GTCAAGGGCAGAGCTCCTGGCCTCTGGGGCAGGGCGAGGAATGGAAGATAGAGTACGTG            GGATACAGGTACGGGCAGAGCTCCTGGCCTCAATGATGCCTCCTGATCTATCGCTGGGC            CTGGACGACCAACTGGGATGATGATGAGCAGAATGGTCATGAAGATGCCAAAATCAG            GGCCAGATGTTCAGGCACTTGGCGGTGGAGGCATAGGCCTGGGCCCGGTACGTCGCC            AACCATCTTCTGTCCCTAGACTTACGGAGTAGGCGAATGCTATGAAGCCAGGAGCA            GGTGTTTCAAGAGGGTGTGAACAGGGACCAGACGACATGGTCAGGCACGGAGGTCTC            GCTGCGGATGTGGATCACGGTGGACATCGGGGAGCAGGGTGTGGGGCGCCCCAGCAT            AGCCACTTCTGCTCCTCTTGAACATCTCGTANTTGGGAGGCTGGCCGCTGTTGACAGG            AGAGAAAGGTTGCACAATGTGGTTCATGGTGACCCAGCGTGATCGGGCCTCGTGCCGAAT            TCGCGGCCGCCCTATAGTGAGTCTATTACAAATCTGACGGTTCATAAACGAGCTCTG            CTTTATAGACCTNCCACCGTACACGCCTACCGNCCATTTGCGTACGGGGCGGGGNTAT            TACCACATTTTGAAGGCCNGTGATTTTGGTGCCAAAACAACTCCNATTGACGTCAATG            GGGTGAAACTTGAAAAATCCCCTGAGTCAAACCGTTATCACGCCATG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006435
<b>Insert Size:</b>	670 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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]