

Product datasheet for **SC100402**

IFIT2 (NM_001547) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFIT2 (NM_001547) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFIT2
Synonyms:	cig42; G10P2; GARG-39; IFI-54; IFI-54K; IFI54; IFIT-2; ISG-54 K; ISG-54K; ISG54; P54
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100402 sequence for NM_001547 edited (data generated by NextGen Sequencing)

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ATGAGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCAACTAAAATGCCATTTT
ACCTGGAACCTTGATGGAGGGAGAAAACTCCTTGGATGATTTTGAAGACAAAGTATTTTAC
CGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCAACCTACTGGCCTATCTA
AAGCACCTCAAAGGGCAAAACGAGGCAGCCCTGGAATGCTTACGTAAGCTGAAGAGTTA
ATCCAGCAAGAGCATGCTGACCAGGCAGAAATCAGAAGCTGGTCACCTGGGAAAACCTAT
GCCTGGGTCTACTATCACATGGGCCGACTCTCAGACGTTTACGATTTATGTAGACAAGGTG
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GAGGAAGGGTGGACACGGTTAAAGTGTGGAGGAAACAAAATGAAAGAGCGAAGGTGTGC
TTTGAGAAGGCTCTGGAAAAGAAGCCAAAGAACCAGAATTCACCTCTGGACTGGCAATA
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GCCATTCGGCTGAATCCTGACAACCACTTAAAGTCTCCTGGCTCTGAAGTTCAT
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GAGCTGAATGAAAGAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGA
AGCCTCATCCCTCAGCATCAAGCTGGAATGGGGAATGA
    
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Clone variation with respect to NM_001547.4
1334 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001547 unedited

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TTCAAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAAATTCGCACGAGGAGAAGAG
GAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAATTGCA
CTGCAACCATGAGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCAACTAAAAT
GCCATTTACCTGGAACCTGATGGAGGGGAGAAAACCTCCTTGGATGATTTTGAAGACAAAG
TATTTTACCGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCAACCTACTGG
CCTATCTAAAGCACCTCAAAGGGCAAAACGAGGCAGCCCTGGAATGCTTACGTAAGCTG
AAGAGTTAATCCAGCAAGAGCATGCTGACCAGGCAGAAATCAGAAGTCTGGTCACCTGGG
GAAACTATGCCTGGGTCTACTATCACATGGGCCGACTCTCAGACGTTTACGATTTATGTAG
ACAAGGTGAAACATGTCTGTGAGAAGTTTTCCAGTCCCTATAGAATTGAGAGTCCAGAGC
TTGACTGTGAGGAAGGGTGGACACGGTTAAAGTGTGGAGGAAACAAAATGAAAGAGCGA
AGGTGTGCTTTGAGAAGGCTCTGGAAAAGAAGCCAAAGAACCAGAATTCACCTCTGGAC
TGGCAATAGCAAGCTACCGTCTGGACAACCTGGCCACCATCTCAGAACGCCATTGACCCTC
TGAGGCAGCCATTCGGCTGAATCCTGANCAACAGTACCTTAAAGTCTNCTGGCTCTGAA
GCTTCATAAATGCGTGAANAANGTGAANAGGAANGTGAAGAGAGAAGTTAGTGAAGAAGC
CTTGGAGAAGCCCAAGTGAACAGAATGTCTTCGCATGCAGCCAGTTTATTCGAGAAAA
GAGAGCCAGACAAGCGATGACTGCTTAAAAGGCTTAGATACATACCAACATGCCTCC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001547 unedited NTTTGGTATCATCTATGNNACCGCGCCGCATNCTAGNGATCGATTTTTTTTTTTTTTTTT TTTATGTTTTATCATATTTAGGTTATTTAATGAAAATATATGACATTTTCAGGAATA CAAATTTTGCACCCTGATGACCTCAAATGCGTGCAACAAGATGTTAATACAGAAAATAA CACAAAACTGTTGTTACAGTGGTTAGAATTTTAACTTAAAAAACCATGAATTTGTAT TGTTTTAATTGCACAATAAAATAATGTTGATATATACTTAAGCTTAAATTAATTTCCAACA GGCAAACATTTTCCAACCCAGAGTGTGGCTGATGCTGGGTCAGCTGACTCTATTTTGGTT CACACCAACTTTGATGTCTAGGCTATTCAGCATCTACCTAGAAAATCTCAATCGTTCCAA GCATACCGTGAATTTTGTGATTTCTCAGAAGATTTTCGGAGTTAAAAGAAGTGTATAT CACTTAATATCCAACATTTCTAAAGGGGGAAAACCCACCATCTATTATCAATGACATT TCCCAAGTCCTTGCACCAGGCCCTTAGTCACCAGGTTCCACGTTTTTGTGCTTTCCTAC CGTCTCAAACCAGGTTTCATGAAAGCATTGAAACAGAGTTCAGTCTTCATTTTACAAAAA AAAAAAATTCCTAATAGTGGCTAAAATACTGCAAATTTCTCCATTCGATTACAATCTACA AAGATAAACAGCATTCTTTCTCTTTCTCTTTTGGTACTTTTCCCCTATCCCTACT GGTGAGACATTTATTTTTTACACAGTTTTTAAAGAATACATTATGTTGGGTTCTAGTGT ATTGTACAGAATCCATTCTCATCTTTACTTGCTACATTATGACTATGAGGA
Restriction Sites:	NotI-NotI
ACCN:	NM_001547
Insert Size:	3500 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).
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_001547.3</u> , <u>NP_001538.3</u>
RefSeq Size:	3058 bp
RefSeq ORF:	1455 bp
Locus ID:	3433
UniProt ID:	<u>P09913</u>
Cytogenetics:	10q23.31
Domains:	TPR

Gene Summary:

IFN-induced antiviral protein which inhibits expression of viral messenger RNAs lacking 2'-O-methylation of the 5' cap. The ribose 2'-O-methylation would provide a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O-methylation (cap snatching mechanism). Binds AU-rich viral RNAs, with or without 5' triphosphorylation, RNA-binding is required for antiviral activity. Can promote apoptosis.[UniProtKB/Swiss-Prot Function]