

Product datasheet for **SC116712**

IFI16 (NM_005531) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFI16 (NM_005531) Human Untagged Clone
Tag:	Tag Free
Symbol:	IFI16
Synonyms:	IFNGIP1; PYHIN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_005531 edited
GAATTCGGCACGAGGGAATAGGAGCAAGCCAGCACTAGTCAGCTAACTAAGTGACTCAAC
CAAGGCCTTTTTCTTGTATCTTTGCAGATACTTCATTTTTCTTAGCGTTTCTGGAGAT
TACAACATCCTGCGGTTCCGTTTCTGGGAACTTACTGATTTATCTCCCCCTCACACAA
ATAAGCATTGATTCTGCATTTCTGAAGATCTCAAGATCTGGACTACTGTTGAAAAAATT
TCCAGTGAGGCTCACTTATGCTGTAAAGATGGGAAAAAATACAAGAACATTGTTCTAC
TAAAAGGATTAGAGGTCATCAATGATTATCATTTTAGAATGGTTAAGTCCTTACTGAGCA
ACGATTTAAAACCTAATTTAAAAATGAGAGAAGAGTATGACAAAAATTCAGATTGCTGACT
TGATGGAAGAAAAGTTCCGAGGTGATGCTGGTTTGGGCAAACTAATAAAAAATTTTGAAG
ATATACCAACGCTTGAAGACCTGGCTGAAACTCTTAAAAAAGAAAAGTTAAAAGTAAAAG
GACCAGCCCTATCAAGAAAGAGGAAGAAGGAGTGGATGCTACTTCACCTGCACCCTCCA
CAAGCAGCACTGTCAAACTGAAGGAGCAGAGGCAACTCTGGAGCTCAGAAAAGAAAA
AATCAACCAAAGAAAAGGCTGGACCCAAAGGGAGTAAGGTGTCCGAGGAACAGACTCAGC
CTCCCTCTCTGCAGGAGCCGGCATGTCCACAGCCATGGGCCGTTCCCATCTCCAAGA
CCTCATTGTCAGCTCCACCAACTTCTCAACTGAGAACCCGAAAACAGTGGCCAAAT
GTCAGGTAACCTCCAGAAGAAATGTTCTCCAAAACGCCAGTGATAGTGAAGGTAAGTGA
GTACAACAAAGCCATTTGAATATGAGACCCAGAAATGGAGAAAAAATATGTTTCATG
CTACAGTGGCTACACAGACAGTTCTTCCATGTGAAGGTTTTAAACACCAGCTTGAAGG
AGAAATCAATGGAAAGAAAATCATCATATCAGATTATTTGGAATATGATAGTCTCC
TAGAGGTCAATGAAGAATCTACTGTATCTGAAGCTGGTCTAACCAAACGTTTGGAGTTC
CAAATAAAATCATCAACAGAGCAAAGGAACTCTGAAGATTGATATTCTTCAAAAACAG
CTTCAGGAAATATGATATGGGGTATTTATGCTACATAAGAAAACAGTAAATCAGAAGA
CCACAATCTACGAAATTCAGGATGATAGAGGAAAAATGGATGATGTTGGGGACAGGACA
TTCACAATATCCCTGTGAAGAAGGAGATAAGCTCCAACTTTTCTGCTTTCGACTTAGAA
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TGCCACCAACAACCTCCATCCAGCAGTTTCTTCCCAAGAAAAGTGAAGACACAATCTCCA
AAATGAATGACTTCATGAGGATGCAGATACTGAAGGAAGGGAGTCATTTTCCAGGACCGT
TCATGACCAGCATAGGCCAGCTGAGAGCCATCCCACACTCCTCAGATGCCTCCATCAA
CACCAAGCAGCAGTTTCTTAACCAGTTGAAACCAAGACTGAAGACTGAACCTGAAGAAG
TTTCCATAGAAGACAGTGCCAGAGTGACCTCAAAGAAGTATGGTGCTGAACGCAACAG
AATCATTTGTATATGAGCCCAAAGAGCAGAAGAAAATGTTTCATGCCACAGTGGCAACTG
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AGAAGATCATTGCCATAGCAAATATGTTTGGCGCAATGGGTTCTCGGAGGTATATCCTT
TCACACTTGTGGCTGATGTGAATGCTGACCGAAACATGGAGATCCCAAAAAGGATTGATTA
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TGAATGGGGTGTGAGGTACATAAGAAAAATGAAGGGTGAATTCACCTATTATGAAA
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CCGGGGAGTTGAGATCTGTAAATTCATAGTCACATCAAGGTCATCAAGACCAGAAAAACA
AGAAAGACATACTCAATCCTGATTCAAGTATGGAACTTCACCAGACTTTTTTCTTCTAAA
ATCTGGATGTCATTGACGATAATGTTTATGGAGATAAGGTCTAAGTGCCTAAAAAATGT
ACATATACCTGGTTGAAATACAACACTATACATACACACCACCATATACTAGCTGTTA
ATCCTATGGAATGGGGTATTGGGAGTGCTTTTTAATTTTTCATAGTTTTTTTTTAATAA
AATGGCATATTTGCATCTACAACCTCTATAATTTGAAAAAATAAATAAACATTATCTTT
TTTGTGAAAAAATAAATAAACACTCGAC
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005531 unedited
 TTTTGTAAACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGAATAGGAGCAAG
 CCAGCACTAGTCAGCTAACTAAGTGACTCAACCAAGGCCTTTTTTCCTTGTTATCTTTGC
 AGATACTTCATTTTCTTAGCGTTTCTGGAGATTACAACATCCTGCGGTTCCGTTTCTGGG
 AACTTTACTGATTTATCTCCCCCTCACACAAATAAGCATTGATTCTGCATTTCTGAAG
 ATCTCAAGATCTGGACTACTGTTGAAAAATTTCCAGTGAGGCTCACTTATGTCTGTAAA
 GATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGATTA
 TCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAAACCTAATTTAAAAATGAG
 AGAAGAGTATGACAAAATTCAGATTGCTGACTTGATGGAAGAAAAGTTCCGAGGTGATGC
 TGGTTTGGGCAACTAATAAAAAATTTTGAAGATATACCAACGCTTGAAGACCTGGCTGA
 AACTCTTAAAAAGAAAAGTTAAAAGTAAAAGGACCAGCCCTATCAAGAAAAGAGGAAGAA
 GGAAGTGGATGCTACTTCACCTGCACCCTCCACAAGCAGCACTGTCAAACTGAAGGAGC
 AGAGGCAACTCCTGGAGCTCAGAAAAGAAAAAATCAACCANAGAAAAGGCTGCACCCAA
 AGGGAGTAANGGTGTCGAGAACAGACTCACCTCCTCTCNCTGCAGAGCCCGCATGTCC
 ACAGCCATGGGCGTTNCCCATCTCCAAGACCTCATTGTCAGCTTACCCACACTTCTT
 TCACTGAGAACCCGAAACAGTGGCCAATGTCAGTTACTCCCAAAGAAATGTCTCAAAC
 CCCATGATAGGGAAGTTCTGAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005531 unedited
 CGCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTAAACAAAAAGAAATGTTTA
 TTTATTTTTTCAAATTATAGAAGTTGTAGATGCAAAATATGCCATTTTATAAAAA
 CTATGAAAAATAAAAAGCACTCCAATACCCATTCCATAGGATTAACAGCTAGTATA
 TATGGTGGTGTGTATGTATAGTGTGTATTTCAACCAGGTATATGTACATTTTTTTAGGC
 ACTTAAACCTTATCTCCATAAACATTATCGTCAATGACATCCAGATTTTAGAAGAAAAAG
 TCTGGTGAAGTTCCATACTTGAATCAGGATTGAGTATGTCTTTCTTGTTTTTCTGGAC
 TTGATGACCTTGATGCGACTATGAATTACAGATCTCAACCGCCCGGATTGCCACATTTT
 GGTGCCAACACAAACCTCGTTGACTCGCCGCTCGATCCCCTTCCCTTCCCTTCCACCGC
 TCCACCCTGTAATCCCGACCCCGATCATTCTCCCGATCCACCATCGCGCCACCACCA
 CGCATCCTCACCTTCATTGTATCTCCTCATCTCCCCCGCCACTAACACGCCCTCC
 CCCCATAATCCCTCCCTCTCTCCACTTCCTCATTTCGCGTTTACTTTCCCCCGCATCC
 TAACCCCGTCTTATATCGCCCTCCCGAGTTGTCTAATGCTACTCTCCGACCGCCCCC
 CATCCCGTATCGCTCCCCCCCCGCGCATCTTTACGTTCTCTCATGCCACTCTCCCG
 CCTTTTACCGCCCTCCTACCTCCACCTACGTTTCTGACTTATGTATATCCATCGCACTC
 AACTGCCCCGTTCCGCGTACTTCCCCCTTCTTATAAGCCCGCTCCAGTTTATNTATCC
 CCTCACTCCGTCCTCAATTTCCCCCATTACCAATCCTCCATTACTACGATCGCACTCTA
 CACGTCGATGTCTGTTTCTCCGNATCCTACCCTATCTTGTTTACGTCCTAGTCCTC
 C

Restriction Sites:

NotI-NotI

ACCN:

NM_005531

Insert Size:

2770 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](#)

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_005531.1](#), [NP_005522.1](#)

RefSeq Size: 2709 bp

RefSeq ORF: 2190 bp

Locus ID: 3428

UniProt ID: [Q16666](#)

Cytogenetics: 1q23.1

Domains: PAAD_DAPIN, HIN

Protein Families: Transcription Factors

Gene Summary:

This gene encodes a member of the HIN-200 (hematopoietic interferon-inducible nuclear antigens with 200 amino acid repeats) family of cytokines. The encoded protein contains domains involved in DNA binding, transcriptional regulation, and protein-protein interactions. The protein localizes to the nucleoplasm and nucleoli, and interacts with p53 and retinoblastoma-1. It modulates p53 function, and inhibits cell growth in the Ras/Raf signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2011]

Transcript Variant: This variant (2) consists of 11 exons and encodes isoform 2 (also known as isoform B, PMIDs:9718316 and 12588705). Note the CDS was annotated to initiate translation from an in-frame downstream AUG, as it is flanked by a strong Kozak signal, and is better conserved than the upstream AUG located 4 codons upstream.