

Product datasheet for **RC234786**

IFI16 (NM_001206567) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFI16 (NM_001206567) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IFI16
Synonyms:	IFNGIP1; PYHIN2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC234786 representing NM_001206567
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGATTATCATTGTAAGAA
 TGGTTAAGTCCTTACTGAGCAACGATTTAAAACCTTAATTTAAAAATGAGAGAAGAGTATGACAAAATTC
 GATTGCTGACTTGATGGAAGAAAAGTTCGAGGTGATGCTGGTTTGGGCAAACTAATAAAAAATTTTCGAA
 GATATACCAACGCTTGAAGACCTGGCTGAAACTCTAAAAAGAAAAGTAAAAGTAAAAGGACCAGCCC
 TATCAAGAAAGAGGAAGAAGGAAGTGGATGCTACTTCACCTGCACCCTCCACAAGCAGCACTGTCAAAC
 TGAAGGAGCAGAGGCAACTCCTGGAGCTCAGAACCCGAAAACAGTGGCCAAATGTCAGGTAATCCCAGA
 AGAAATGTTCTCCAAAAACGCCAGTGTAGTGAAGTACTGAGTACAACAAAGCCATTTGAATATGAGA
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 GGTTTTAAACACCAGCTTGAAGGAGAAATCAATGGAAAGAAAATCATCATCATATCAGATTATTTGGAA
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 TTCCAAATAAAATCATCAACAGAGCAAAGGAACTCTGAAGATTGATATTCTTCAAAAACAGCTTCAGG
 AAATATTGTATATGGGGTATTTATGCTACATAAGAAAACAGTAAATCAGAAGACCACAATCTACGAAAT
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 AGATGCCACCAACAACCTCCATCCAGAGTTTCTTCAACAAGAAAAGTGAAGACACAATCTCCAAAATGAA
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 CAAAGAGCAGAAGAAAATGTTTCATGCCACAGTGGCAACTGAGAATGAAGTCTTCGAGTGAAGGTTTTT
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 GGTTCCTGGAGGTATATCCTTTACACTTGTGGCTGATGTGAATGCTGACCGAAAACATGGAGATCCCAA
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 GAAACTCACCTGCTTTGAATTGGCACCGAAAAGTGGGAATACCGGGGAGTTGAGATCTGTAAATTCATAGT
 CACATCAAGGTTCATCAAGACCAGGAAAAACAAGAAAGACATACTCAATCCTGATTCAAGTATGAAAACCT
 CACCAGACTTTTTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234786 representing NM_001206567
 Red=Cloning site Green=Tags(s)

MGKYYKNIIVLLKGLEVIN DYHFRMVKSLLSNDLKLNLKMREEYDKIQIADLMEEKFRGDAGLGKLIKIFE
 DIPTLEDLAETLKKELKVKGPALSRKRKKEVDATSPAPSTSSTVKTEGAEATPGAQNPKTVAKCQVTPR
 RNVLQKRPVIVKVLSTTKPFYEYTPEMEKKIMFHATVATQTQFFHVKVLNTSLKEKFNKKIIIIISDYLE
 YDSLLEVNEESTVSEAGPNQTFEVPNKIINRAKETLKDILHKQASGNIYGVFMLHKKTVNQKTTIYEI
 QDDRGMKMDVVGTVGQCHNIPCEEGLQLFCFRLRKNQMSKLI SEMHSFIQIKKKTNPRNNDPKSMKLPQ
 EQRQLPYPSEASTTFPESHLRTPQMPPTTPSSSFFTKSEDTSKMNDFMRMQILKEGSHFPGPFMTSIG
 PAESHPTPQMPSTPSSSFLTTKSEDTSKMNDFMRMQILKEGSHFPGPFMTSIGPAESHPTPQMPSTP
 TPSSSFLTTLPRLKTEPEEVSIEDSAQSDLKEVMVLNATESFVYEPKEQKMFHATVATENEVFRVKVF
 NIDLKEKFTPKKIIAIAIANYVCRNGFLEVYPFTLVADVNADRMEIPKGLIRASVTPKINQLCSQTKGSF
 VNGVFEVHKKNVRGEFTYIEIQDNTGKMEVVHGRLLTINCEEGLKLLTCFELAPKSGNTGELRSVIHS
 HIKVIKTRKNKIDILNPDSSMETSPDFFF

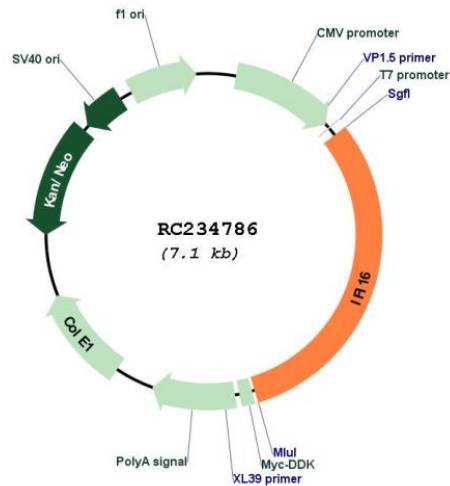
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001206567

ORF Size: 2187 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_001206567.2](#)

RefSeq Size: 2750 bp

RefSeq ORF: 2190 bp

Locus ID: 3428

UniProt ID: [Q16666](#)

Cytogenetics: 1q23.1

Protein Families: Transcription Factors

MW: 83 kDa

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]