OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG202193

IFI16 (NM_005531) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFI16 (NM_005531) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IFI16
Synonyms:	IFNGIP1; PYHIN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG202193 representing NM_005531
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGATTATCATTTTAGAA
TGGTTAAGTCCTTACTGAGCAACGATTTAAAACTTAATTTAAAAATGAGAGAAGAGTATGACAAAATTCA
GATTGCTGACTTGATGGAAGAAAAGTTCCGAGGTGATGCTGGTTTGGGCAAACTAATAAAAATTTTCGAA
GATATACCAACGCTTGAAGACCTGGCTGAAACTCTTAAAAAAGAAAAGTTAAAAGTAAAAGGACCAGCCC
TATCAAGAAAGAGGAAGAAGGAAGTGGATGCTACTTCACCTGCACCCTCCACAAGCAGCACTGTCAAAAC
TGAAGGAGCAGAGGCAACTCCTGGAGCTCAGAAAAGAAAAAAATCAACCAAAGAAAAGGCTGGACCCAAA
GGGAGTAAGGTGTCCGAGGAACAGACTCAGCCTCCCTCTCCTGCAGGAGCCGGCATGTCCACAGCCATGG
GCCGTTCCCCATCTCCCAAGACCTCATTGTCAGCTCCACCCAACACTTCTTCAACTGAGAACCCGAAAAC
AGTGGCCAAATGTCAGGTAACTCCCAGAAGAAATGTTCTCCAAAAACGCCCAGTGATAGTGAAGGTACTG
AGTACAACAAAGCCATTTGAATATGAGACCCCAGAAATGGAGAAAAAAATAATGTTTCATGCTACAGTGG
CTACACAGACACAGTTCTTCCATGTGAAGGTTTTAAACACCAGCTTGAAGGAGAAATTCAATGGAAAGAA
AATCATCATCATATCAGATTATTTGGAATATGATAGTCTCCTAGAGGTCAATGAAGAATCTACTGTATCT
GAAGCTGGTCCTAACCAAACGTTTGAGGTTCCAAATAAAATCATCAACAGAGCAAAGGAAACTCTGAAGA
TTGATATTCTTCACAAACAAGCTTCAGGAAATATTGTATATGGGGTATTTATGCTACATAAGAAAACAGT
AAATCAGAAGACCACAATCTACGAAATTCAGGATGATAGAGGAAAAATGGATGTAGTGGGGACAGGACAA
TGTCACAATATCCCCTGTGAAGAAGGAGATAAGCTCCAACTTTTCTGCTTTCGACTTAGAAAAAAGAACC
AGATGTCAAAACTGATTTCAGAAATGCATAGTTTTATCCAGATAAAGAAAAAAACAAACCCGAGAAACAA
TGACCCCAAGAGCATGAAGCTACCCCAGGAACAGAGTCAGCTTCCAAATCCTTCAGAGGCCAGCACAACC
TTCCCTGAGAGCCATCTTCGGACTCCTCAGATGCCACCAACAACTCCATCCAGCAGTTTCTTCACCAAGA
AAAGTGAAGACACAATCTCCAAAATGAATGACTTCATGAGGATGCAGATACTGAAGGAAGGGAGTCATTT
TCCAGGACCGTTCATGACCAGCATAGGCCCAGCTGAGAGCCATCCCCACACTCCTCAGATGCCTCCATCA
ACACCAAGCAGCAGTTTCTTAACCACGTTGAAACCAAGACTGAAGACTGAACCTGAAGAAGTTTCCATAG
AAGACAGTGCCCAGAGTGACCTCAAAGAAGTGATGGTGCTGAACGCAACAGAATCATTTGTATATGAGCC
CAAAGAGCAGAAGAAAATGTTTCATGCCACAGTGGCAACTGAGAATGAAGTCTTCCGAGTGAAGGTTTTT
AATATTGACCTAAAGGAGAAGTTCACCCCAAAGAAGATCATTGCCATAGCAAATTATGTTTGCCGCAATG
GGTTCCTGGAGGTATATCCTTTCACACTTGTGGCTGATGTGAATGCTGACCGAAACATGGAGATCCCAAA
AGGATTGATTAGAAGTGCCAGCGTAACTCCTAAAATCAATCAGCTTTGCTCACAAACTAAAGGAAGTTTT
GTGAATGGGGTGTTTGAGGTACATAAGAAAAATGTAAGGGGTGAATTCACTTATTATGAAATACAAGATA
ATACAGGGAAGATGGAAGTGGTGGTGCATGGACGACTGACCACAATCAACTGTGAGGAAGGAGATAAACT
GAAACTCACCTGCTTTGAATTGGCACCGAAAAGTGGGAATACCGGGGAGTTGAGATCTGTAATTCATAGT
CACATCAAGGTCATCAAGACCAGGAAAAACAAGAAAGACATACTCAATCCTGATTCAAGTATGGAAACTT
CACCAGACTTTTTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

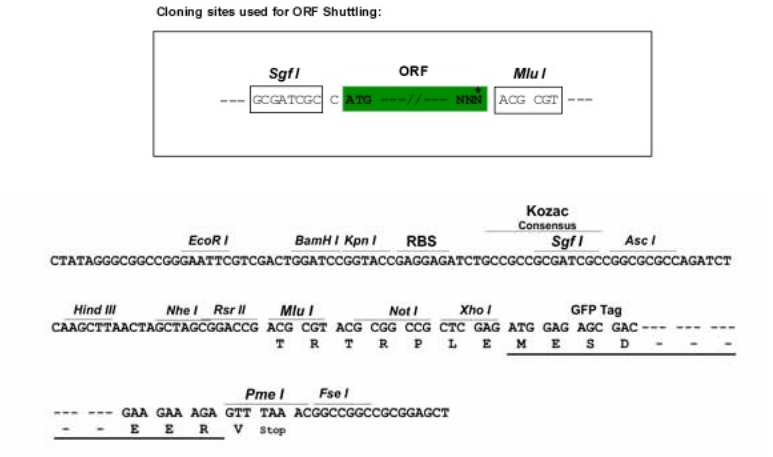
>RG202193 representing NM_005531
Red=Cloning site Green=Tags(s)

MGKKYKNIVLLKGLEVINDYHFRMVKSLLSNDLKLNLKMREEYDKIQIADLMEEKFRGDAGLGKLIKIFE
DIPTLEDLAETLKKEKLKVKGPALSRKRKKEVDATSPAPSTSSTVKTEGAEATPGAQKRKKSTKEKAGPK
GSKVSEEQTQPPSPAGAGMSTAMGRSPSPKTSLSAPPNTSSTENPKTVAKCQVTPRRNVLQKRPVIVKVL
STTKPFEYETPEMEKKIMFHATVATQTQFFHVKVLNTSLKEKFNGKKIIIISDYLEYDSLLEVNEESTVS
EAGPNQTFEVPNKIINRAKETLKIDILHKQASGNIVYGVFMLHKKTVNQKTTIYEIQDDRGKMDVVGTGQ
CHNIPCEEGDKLQLFCFRLRKKNQMSKLISEMHSFIQIKKKTNPRNNDPKSMKLPQEQSQLPNPSEASTT
FPESHLRTPQMPPTTPSSSFFTKKSEDTISKMNDFMRMQILKEGSHFPGPFMTSIGPAESHPHTPQMPPS
TPSSSFLTTLKPRLKTEPEEVSIEDSAQSDLKEVMVLNATESFVYEPKEQKKMFHATVATENEVFRVKVF
NIDLKEKFTPKKIIAIANYVCRNGFLEVYPFTLVADVNADRNMEIPKGLIRSASVTPKINQLCSQTKGSF
VNGVFEVHKKNVRGEFTYYEIQDNTGKMEVVVHGRLTTINCEEGDKLKLTCFELAPKSGNTGELRSVIHS
HIKVIKTRKNKKDILNPDSSMETSPDFFF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

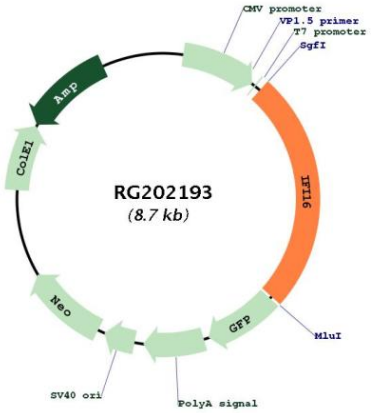


ACCN: NM_005531

ORF Size: 2187 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
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_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]

Product images:



Circular map for RG202193