

Product datasheet for **MG206340**

Ifit3 (NM_010501) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ifit3 (NM_010501) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ifit3
Synonyms:	Ifi49; P49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206340 representing NM_010501 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAGGTCAACCGGAATCTCTGGAAGCGATCCTCCACAGCTGAAGTGCCATTTACCTGGAATT
TATTCAGGGAAGGAAGTATGTCCAGTCATATGGAAGACAGGGTGTGCAACCAGGTGCAACATTTAAACTC
TGAGGAGAAGGCAACAATGTATGACTTATTGGCCTACATAAAGCACCTAGATGGCGAAAGCAAGGCCGCC
CTGGAGTGCTTAGGGCAAGCTGAAGATTTAAGGAAGTCAGAGCACAATGATCAATCAGAAATTCGTCGAC
TGGTCACCTGGGAAACTACGCCTGGATCTACTATCACATGGGCCGTCTCTCAGAAGCTCAGGCTTACGT
TGACAAGGTGAGACAAGTTTGCCAAAAGTTTGCGAATCCTTACAGCATGGAATGCCCAGAACTTGAATGT
GAGGAAGGATGGACACGCCTAAAGTGTGGAAGAAATGAACGAGCAAAAATGTACTTTGAAAAGGCTCTAG
AAGAGAAGCCAAAGGACCCAGAGTGCTCCTCTGGGATGGCCATCGCCATGTTCCGCCTAGAAGAAAAACC
TGAGAAGCAGTTCTCCGTGGATGCTCTGAAGCAGGCCATGGAGTTGAATCCTCAGAACAGTACCTGAAA
GTTCTCCTGGCCCTGAACTGCTGAGGATGGGAGAAGAAGCTGAAGGGGAGCGATTGATTAAGATGCTT
TGGGAAAGCTCCTAATCAAACGGATGTCCTCCAAAAGGCAGCTCAGTTTTACAAGAAAAAGGTAACCT
AGACAGAGCTATTGAGTTACTTGAAAAAGCACTGCGATCCACAGTGAACAACAGTCCTCTCTACTCTTTG
GTCATGTGCCGTTACAGGAAATCTGGAGCAGCTACAGAATAAAGGAGATGCTGACAGCAGTGAGAGAA
GACAGAGGATGGCAGAACTGAGACGATTAACGATGGAGTTTCATGCAGAAGACTCTTCAGAGGAGGCGAAG
TCCTTTGAACTCCTACTCAGATCTCATGATTTCCCGGAAGTAGAGAGATGCTATCAGATGGTCATCAGT
AAGGAGAGCCCCGATGTTGAGGAAGAAGACCTCTATGAGCGCTATTGCAACCTCCAGGAGTACCACAGGA
AGTCTGAAGACCTCGCAGCCCTGGAGTGTGTTGCAATTTCCAGAAATGAAAGGTCAATCGAGAAGGA
AGAGGTTAAAGAGCAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206340 representing NM_010501
 Red=Cloning site Green=Tags(s)

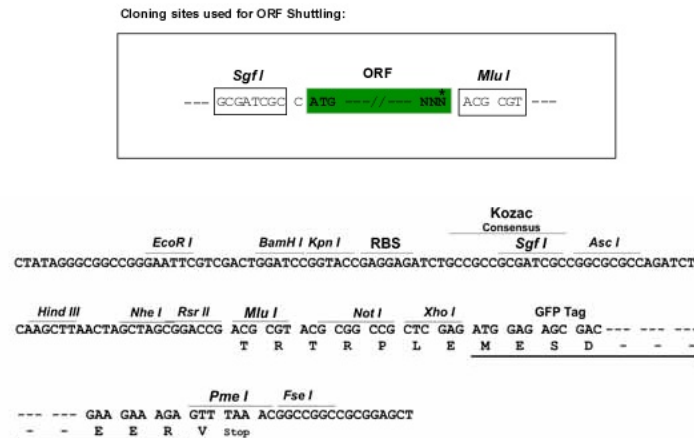
MSEVNRESLEAILPQLKCHFTWNLFREGLSMSSHMEDRVCNQVEHLNSEEKATMYDLLAYIKHLDGESKAA
 LECLGQADLRKSEHNDQSEIRRLVTWGNAYWIYYHMGRLSEAQAYVDKVRQVCQKFANPYSMECPELEC
 EEGWTRLKCGRNERAKMYFEKALEEKPKDPECSSGMAIAMFRLEEKPEKQFSVDALKQAMELNPNQNYLK
 VLLALKLLRMGEEAEGERLIKDALGKAPNQTDVLQKAAQFYKKKGNLDRAIELLGKALRSTVNNSPYLSL
 VMCRYREILEQLQNKGDADSSERRQMAELRRLTMEFMQKTLQRRRSPLNSYSDLIDFPEVERCYQMVIS
 KESPDVEEEDLYERYCNLQEYHRKSEDLAALECLLQFPRNERSIEKEEVKEQT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_010501

ORF Size: 1209 bp

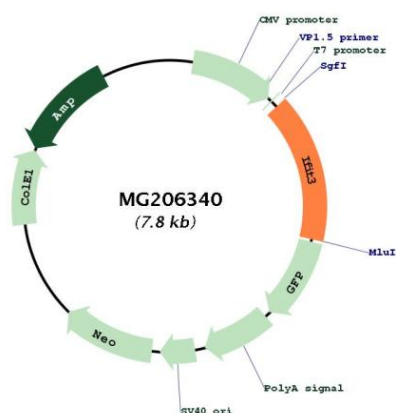
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_010501.1, NP_034631.1</u>
RefSeq Size:	1724 bp
RefSeq ORF:	1212 bp
Locus ID:	15959
UniProt ID:	<u>Q64345</u>
Cytogenetics:	19 C1
Gene Summary:	IFN-induced antiviral protein which acts as an inhibitor of cellular as well as viral processes, cell migration, proliferation, signaling, and viral replication. Enhances MAVS-mediated host antiviral responses by serving as an adapter bridging TBK1 to MAVS which leads to the activation of TBK1 and phosphorylation of IRF3 and phosphorylated IRF3 translocates into nucleus to promote antiviral gene transcription. Exhibits an antiproliferative activity via the up-regulation of cell cycle negative regulators CDKN1A/p21 and CDKN1B/p27. Normally, CDKN1B/p27 turnover is regulated by COPS5, which binds CDKN1B/p27 in the nucleus and exports it to the cytoplasm for ubiquitin-dependent degradation. IFIT3 sequesters COPS5 in the cytoplasm, thereby increasing nuclear CDKN1B/p27 protein levels. Upregulates CDKN1A/p21 by downregulating MYC, a repressor of CDKN1A/p21. Can negatively regulate the apoptotic effects of IFIT2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206340