

Product datasheet for **RG238233**

IFIT3 (NM_001289759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFIT3 (NM_001289759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IFIT3
Synonyms:	CIG-49; cig41; GARG-49; IFI60; IFIT4; IRG2; ISG60; P60; RIG-G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238233 representing NM_001289759. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTACAACCTGTTGGCCTACATAAAACACCTAGATGGTAACAACGAGGCAGCCCTGGAATGCTTACGG
CAAGCTGAAGAGTTAATCCAGCAAGAACATGCTGACCAAGCAGAAATCAGAAGTCTAGTCACTTGGGGA
AACTACGCCTGGGTCTACTATCACTTGGGCAGACTCTCAGATGCTCAGATTTATGTAGATAAGGTGAAA
CAAACCTGCAAGAAATTTCAAATCCATACAGTATTGAGTATTCTGAACCTGACTGTGAGGAAGGGTGG
ACACAACCTGAAGTGTGGAAGAAATGAAAGGGCGAAGGTGTGTTTTGAGAAGGCTCTGGAAGAAAAGCCC
AACAAACCAGAATTCCTCTGGACTGGCAATTGGCATGTACCATCTGGATAATCACCCAGAGAAACAG
TTCTCTACTGATGTTTTGAAGCAGGCCATTGAGCTGAGTCTGATAACCAATACGTCAAGTTCTCTTG
GGCCTGAAACTGCAGAAGATGAATAAAGAAGCTGAAGGAGAGCAGTTTGTGAAGAAGCCTTGAAAAG
TCTCCTTGCCAAACAGATGTCCTCCGCAGTGCAGCCAAATTTTACAGAAGAAAAGGTGACCTAGACAAA
GCTATTGAACTGTTTCAACGGGTGTTGGAATCCACACCAAAACAATGGCTACCTCTATCACCAGATTGGG
TGCTGCTACAAGGCAAAAGTAAGACAAATGCAGAATACAGGAGAATCTGAAGCTAGTGGAATAAAGAG
ATGATTGAAGCACTAAAGCAATATGCTATGGACTATTCGAATAAAGCTCTTGAGAAGGGACTGAATCCT
CTGAATGCATACTCCGATCTCGCTGAGTTCCTGGAGACGGAATGTATCAGACACCATTCAATAAGGAA
GTCCCTGATGCTGAAAAGCAACAATCCCATCAGCGCTACTGCAACCTTCAGAAATAAATGGGAAGTCT
GAAGACACTGCTGTGCAACATGGTTTAGAGGGTTTGTCCATAAGCAAAAAATCAACTGACAAGGAAGAG
ATCAAAGACCAACCACAGAATGTATCTGAAAATCTGCTTCCACAAAAATGCACCAAATATTGGTATCTT
CAAGGATTAATTCATAAGCAGAATGGAGATCTGCTGCAAGCAGCCAAATGTTATGAGAAGGAACTGGGC
CGCCTGCTAAGGGATGCCCTTCAGGCATAGGCAGTATTTTCTGTGAGCATCTGAGCTTGAGGATGGT
AGTGAGGAAATGGGCCAGGGCGCAGTCAGTCCAGTCCCAGAGAGCTCCTCTCTAACTCAGAGCAACTG
AAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238233
 Blue=ORF Red=Cloning site Green=Tag(s)

MYNLLAYIKHLDGNNEAALECLRQAEELIQQEHADQAEIRSLVTWGNyawvyyHLGRLSDAQIYVDKVK
 QTCKKFSNPYSIEYSELDC EEGWTQLKCGRNERAKVCFEKALEEKPNNPEFSSGLAIAMYHLDNHPEKQ
 FSTDVLKQAIELSPDNQYVKVLLGLKLQKMNKEAEGEQFVEEALEKSPCQTDVLRSAKFYRRKGDLDK
 AIELFQRVLESTPNNGYLHQIGCCYKAKVRQMONTGESEASGNKEMIEALKQYAMDYSNKALEKGLNP
 LNAYSDLAEFLETECYQTPFNKEVPDAEKQQSHQRYCNLQKYNGKSEDTAVQHGLEGLSISKSTDKKEE
 IKDQPQNVSENLLPQNAPNYWYLQGLIHKQNGDLLQAAKCYEKELGRLLRDAPSGIGSIFLSASELEDG
 SEEMGQGAVSSSPRELLSNSEQLN
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001289759

ORF Size: 1314 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).

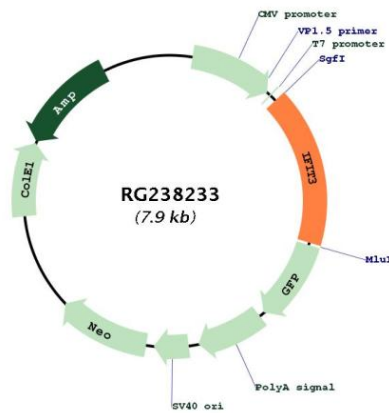
RefSeq: [NM_001289759.2](#)

RefSeq Size: 2589 bp
 RefSeq ORF: 1317 bp

Locus ID: 3437
 Cytogenetics: 10q23.31
 MW: 50.3 kDa

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG238233