

Product datasheet for **RG232743**

IFIT1 (NM_001270930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFIT1 (NM_001270930) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IFIT1
Synonyms:	C56; G10P1; IFI-56; IFI-56K; IFI56; IFIT-1; IFNAI1; ISG56; P56; RNM561
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232743 representing NM_001270930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGATTTAGAAAACAGAGTCTTGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAATAC
 ACAACCTACTAGCCTATGTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAAGAAGC
 TGAAACTTAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTACCTGGGCAACTTT
 GCCTGGATGTATTACCACATGGGCAGACTGGCAGAAGCCAGACTTACCTGGACAAGGTGGAGAACATTT
 GCAAGAAGCTTTCAAATCCCTCCGCTATAGAATGGAGTGTCCAGAAATAGACTGTGAGGAAGGATGGGC
 CTTGCTGAAGTGTGGAGGAAAAAATTATGAACGGGCCAAGGCCTGCTTTGAAAAGGTGCTTGAAGTGGAC
 CCTGAAAACCTGAATCCAGCGCTGGGTATGCGATCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCA
 CAAAAAATCACAAGCCATTTTCTTCTCCCTAAGGCAGGCTGTCGCTTAAATCCAGACAATGGATA
 TATTAAGTTCTCCTTGCCTGAAGCTCAGGATGAAGGACAGGAAGCTGAAGGAGAAAAAGTACATTGAA
 GAAGCTCTAGCCAACATGTCCTCACAGACTATGCTTTTCGATATGCAGCCAAGTTTTACCGAAGAAAAAG
 GCTCTGTGGATAAAGCTCTTGAGTTATTAAGGAGCCCTTGCAGGAAACACCCACTTCTGTCTTACTGCA
 TCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCAAATCAAGGAGGCTACAAAAGGCGAGCCTAGA
 GGGCAGAACAGAGAAAAGCTAGACAAAATGATAAGATCAGCCATATTTTCAATTTTGAATCTGCAGTGGAAA
 AAAAGCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGAATGTATATAGAAGCAGGCAATCACAGAAA
 AGCTGAAGAGAAATTTCAAAAATGTTATGCATGAAACCAAGTGGTAGAAGAAACAATGCAAGACATACAT
 TTCCACTATGGTCGGTTTCAGGAATTTCAAAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAAAG
 CTATAAAAATAGAACAGGCATCATTAAACAAGGGATAAAAAGTATCAATTCTTTGAAGAAATGGTTTTAAG
 GAAACTTCGGAGAAAGGCATTAGATCTGGAAGCTTGAGCCTCCTTGGGTTTCGCTACAAAATTGGAAGGA
 AATATGAATGAAGCCCTGGAGTACTATGAGCGGCCCTGAGACTGGCTGCTGACTTTGAGAACTCTGTGA
 GACAAGGTCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232743 representing NM_001270930
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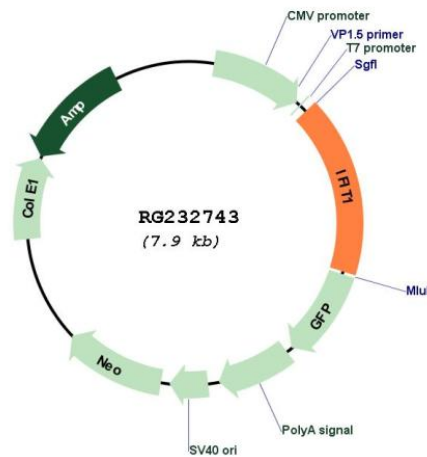
MPDLENRVLQIEFLDTKYSVGIHLLAYVKHLKGQNEEALKSLKEAENLMQEEHDNQNVRSLVTWGNF
 AWMYYHMGRLAEAQTYLDKVENICKKLSNPFYRMECPEIDCEEGWALLKCGGKNYERAKACFEKLEVD
 PENPESSAGYAI SAYRLDGFKLATKNHKPFSLLPLRQAVRLNPDNGYIKVLLALKLQDEGQEAEGEKYIE
 EALANMSSQTYVFRYAAKFYRRKGSVDKALELLKALQETPTSVLLHHQIGLCYKAQMIQIKEATKGQPR
 GQNRKLDKMIRSAIFHFESAVEKKPTFEVAHLDLARMYIEAGNHRKAENFQKLLCMKPVVEETMQDIH
 FHYGRFQEFQKSDVNAIHYLKAIEQASLTRDKSINSLKLVLRKLRKALDLESLLGFVYKLEG
 NMNEALEYYERALRLAADFENSVRQGP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001270930

ORF Size: 1341 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:	<ol style="list-style-type: none">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:	<u>NM_001270930.1</u> , <u>NP_001257859.1</u>
RefSeq Size:	4631 bp
RefSeq ORF:	1344 bp
Locus ID:	3434
UniProt ID:	<u>P09914</u>
Cytogenetics:	10q23.31
Gene Summary:	This gene encodes a protein containing tetratricopeptide repeats that was originally identified as induced upon treatment with interferon. The encoded protein may inhibit viral replication and translational initiation. This gene is located in a cluster on chromosome 10 with five other closely related genes. There is a pseudogene for this gene on chromosome 13. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Aug 2012]