

Product datasheet for **RC232743**

IFIT1 (NM_001270930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFIT1 (NM_001270930) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IFIT1
Synonyms:	C56; G10P1; IFI-56; IFI-56K; IFI56; IFIT-1; IFNAI1; ISG56; P56; RNM561
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC232743 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGATTTAGAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAATAC
 ACAACCTACTAGCCTATGTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAAGAAGC
 TGAAAACTTAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTACCTGGGCAACTTT
 GCCTGGATGTATTACCACATGGGCAGACTGGCAGAAGCCAGACTTACCTGGACAAGGTGGAGAACATTT
 GCAAGAAGCTTTCAAATCCCTCCGCTATAGAATGGAGTGTCCAGAAATAGACTGTGAGGAAGGATGGGC
 CTTGCTGAAGTGTGGAGGAAAAAATTATGAACGGGCCAAGGCCTGCTTTGAAAAGGTGCTGAAGTGGAC
 CCTGAAAACCTGAATCCAGCGCTGGGTATGCGATCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCA
 CAAAAATCACAAGCCATTTTCTTCTCCCTAAGGCAGGCTGTCGCTTAAATCCAGACAATGGATA
 TATTAAGTTCTCCTTGCCTGAAGCTCAGGATGAAGGACAGGAAGCTGAAGGAGAAAAGTACATTGAA
 GAAGCTCTAGCCAACATGTCCTCACAGACTATGCTTTTCGATATGCAGCCAAGTTTTACCGAAGAAAAG
 GCTCTGTGGATAAAGCTCTTGTGTTATTAAGGAGCCTTGCAGGAAAACCCCACTTCTGTCTTACTGCA
 TCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCCAATCAAGGAGGCTACAAAAGGGCAGCCTAGA
 GGGCAGAACAGAGAAAAGCTAGACAAAATGATAAGATCAGCCATATTTTCAATTTGAACTGTCAGTGGAAA
 AAAAGCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGAATGTATATAGAAGCAGGCAATCACAGAAA
 AGCTGAAGAGAAATTTCAAAAATGTTATGCATGAAACCAAGTGGTAGAAGAAACAATGCAAGACATACAT
 TTCCACTATGGTCGGTTTCAGGAATTTCAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAAAG
 CTATAAAAATAGAACAGGCATCATTAAACAAGGGATAAAAAGTATCAATTTTGAAGAAATGGTTTTAAG
 GAAACTTCGGAGAAAGGCATTAGATCTGGAAGCTTGGCCTCCTGGGTTTCGTCTACAAATTGGAAGGA
 AATATGAATGAAGCCCTGGAGTACTATGAGCGGCCCTGAGACTGGCTGCTGACTTTGAGAACTCTGTGA
 GACAAGGTCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232743 protein sequence
 Red=Cloning site Green=Tags(s)

MPDLENRVLQIEFLDTKYSVGIHLLAYVKHLKGQNEEALKSLKEAENLMQEEHDNQNVRSLVTWGNF
 AWMYYHMGRLEAQTYLDKVENICKKLSNPFYRMECEPIDCEEWALLKCGGKNYERAKACFEKLVLEVD
 PENPESSAGYAI SAYRLDGFKLATKNHKPFSLLPLRQAVRLNPDNGYIKVLLALKLQDEGQEAEGEKYIE
 EALANMSSQTYVFRYAIFYRRKGSVDKALELLKALQETPTSVLLHHQIGLCYKAQMIQIKEATKGQPR
 GQNREKLDKMIRSAIFHFESAVEKKPTFEVAHLDLARMYIEAGNHRKAEENFQKLLCMKPVVEETMQDIH
 FHYGRFQEFQKSDVNAIIHYLKAIKIEQASLTRDKSINSLKKL VLRKLRKALDLESL SLLGFVYKLEG
 NMNEALEYERALRLAADFENSVRQGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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:

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_001270930.1](#), [NP_001257859.1](#)

RefSeq Size: 4631 bp

RefSeq ORF: 1344 bp

Locus ID: 3434

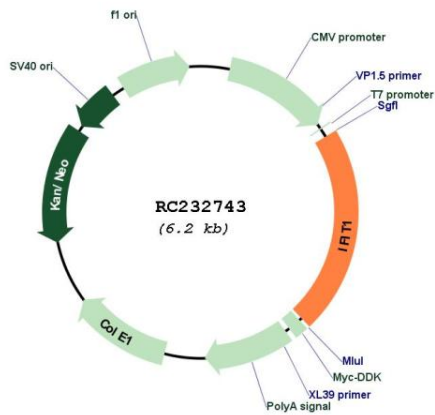
UniProt ID: [P09914](#)

Cytogenetics: 10q23.31

MW: 51.7 kDa

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]

Product images:



Circular map for RC232743