

Product datasheet for RC201952

IFI27 (NM_005532) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFI27 (NM_005532) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IFI27
Synonyms: FAM14D; ISG12; ISG12A; P27
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201952 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCTCTGCTCTCACCTCATCAGCAGTGACCAGTGTGGCCAAAGTGGTCAGGGTGGCCTCTGGCT
CTGCCGTAGTTTTGCCCTGGCCAGGATTGCTACAGTTGTGATTGGAGGAGTTGTGGCTGTGCCATGGT
GCTCAGTGCCATGGGCTTCACTGCGCGGGAATCGCCTCGTCCATAGCAGCCAAGATGATGTCCGCG
GCGGCCATTGCCAATGGGGTGGAGTTGCCTCGGGCAGCCTTGTGGCTACTCTGCAGTCACTGGGAGCAA
CTGGACTCTCCGATTGACCAAGTTCATCCTGGGCTCCATTGGGTCTGCCATTGCGGCTGTCATTGCGAG
GTTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201952 protein sequence
Red=Cloning site Green=Tags(s)

MEASALTSSAVTSVAKVVRVASGSVVPLARIATVVIGGVVAVPMVLSAMGFTAAGIASSSIAAKMMSA
AAIANGGGVASGSLVATLQSLGATGLSGLTKFILGSGSIAAAVIARFY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6309_f10.zip

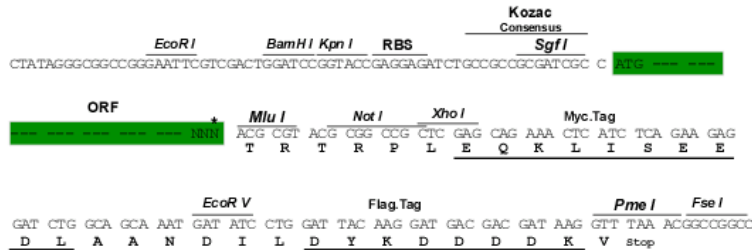
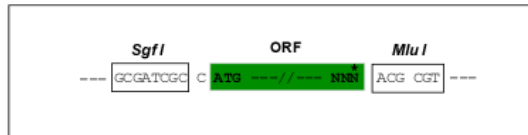
Restriction Sites: Sgfl-Mlul



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Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_005532

ORF Size: 357 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: [NM_005532.5](#)

RefSeq Size: 672 bp

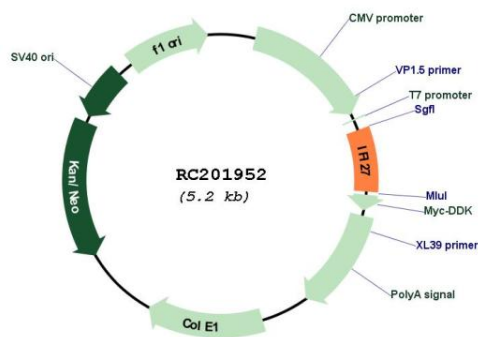
RefSeq ORF: 360 bp

Locus ID: 3429
UniProt ID: [P40305](#)
Cytogenetics: 14q32.12

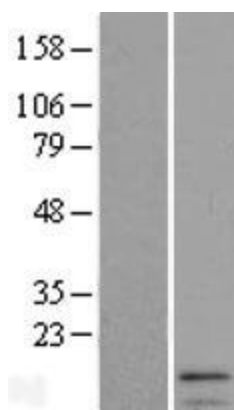
Protein Families: Transmembrane
MW: 11.3 kDa

Gene Summary: Probable adapter protein involved in different biological processes (PubMed:22427340, PubMed:27194766). Part of the signaling pathways that lead to apoptosis (PubMed:18330707, PubMed:27673746, PubMed:24970806). Involved in type-I interferon-induced apoptosis characterized by a rapid and robust release of cytochrome C from the mitochondria and activation of BAX and caspases 2, 3, 6, 8 and 9 (PubMed:18330707, PubMed:27673746). Also functions in TNFSF10-induced apoptosis (PubMed:24970806). May also have a function in the nucleus, where it may be involved in the interferon-induced negative regulation of the transcriptional activity of NR4A1, NR4A2 and NR4A3 through the enhancement of XPO1-mediated nuclear export of these nuclear receptors (PubMed:22427340). May thereby play a role in the vascular response to injury (By similarity). In the innate immune response, has an antiviral activity towards hepatitis C virus/HCV (PubMed:27194766, PubMed:27777077). May prevent the replication of the virus by recruiting both the hepatitis C virus non-structural protein 5A/NS5A and the ubiquitination machinery via SKP2, promoting the ubiquitin-mediated proteasomal degradation of NS5A (PubMed:27194766, PubMed:27777077). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC201952



Western blot validation of overexpression lysate (Cat# [LY417239]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201952 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).