

## Product datasheet for RC235764

### IFI27 (NM\_001288958) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IFI27 (NM\_001288958) 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:** >RC235764 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGCTCTGCTCTCACCTCATCAGCAGTGACCAGTGTGGCCAAAGTGGTCAGGGTGGCCTCTGGCT  
 CTGCCGTAGTTTGGCCCTGGCCAGGATTGCTACAGTTGTGATTGGAGGAGTTGTGGCTGTGCCCATGGT  
 GCTCAGTGCCATGGGCTTCACTGCGGCGGGAATCGCCTCGTCTCCATAGCAGCCAAGATGATGTCCGCG  
 GCGGCCATTGCCAATGGGGTGGAGTTGCCTCGGGCAGCCTTGTGGCTACTCTGCAGTCACTGGGAGCAA  
 CTGGACTCTCCGATTGACCAAGTTCATCCTGGGCTCCATTGGGTCTGCCATTGCGGCTGTCATTGCGAG  
 GTTCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC235764 protein sequence  
 Red=Cloning site Green=Tags(s)

MEASALTSSAVTSVAKVVRVASGSAAVVLPLARIATVVIGGVAVPMVLSAMGFTAAGIASSSIAAKMMSA  
 AAIANGGGVASGSLVATLQSLGATGLSGLTKFILGSIGSAIAAVIARFY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6309\\_f10.zip](https://cdn.origene.com/chromatograms/mk6309_f10.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001288958

**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\\_001288958.2](#)

**RefSeq Size:** 602 bp

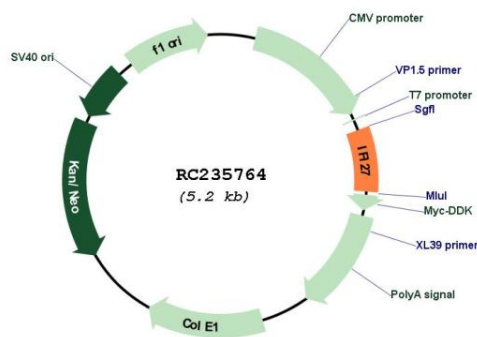
**RefSeq ORF:** 360 bp

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 RC235764