

Product datasheet for **RG225064**

IFI27 (NM_001130080) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFI27 (NM_001130080) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IFI27
Synonyms: FAM14D; ISG12; ISG12A; P27
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225064 representing NM_001130080
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCTCTGCTCTCACCTCATCAGCAGTGACCAGTGTGCCAAAGTGGTCAGGGTGGCCTCTGGCT
CTGCCGTAGTTTTGCCCTGGCCAGGATTGCTACAGTTGTGATTGGAGGAGTTGTGGCCATGGCGGCTGT
GCCCATGGTGCTCAGTGCCATGGCTTCACTGCGGCGGAATCGCCTCGTCCATAGCAGCCAAGATG
ATGTCCGCGCGCCATTGCCAATGGGGTGGAGTTGCCTCGGGCAGCCTTGTGGCTACTCTGCAGTCAC
TGGGAGCAACTGGACTCTCCGATTGACCAAGTTCATCCTGGGCTCCATTGGGTCTGCCATTGCGGCTGT
CATTGCGAGTTCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG225064 representing NM_001130080
Red=Cloning site Green=Tags(s)
MEASALTSSAVTSYAKVVRVASGSAVVLPLARIATVVIGGVVAMAAPMVLSAMGFTAAGIASSSIAAKM
MSAAAANGGGVASGSLVATLQSLGATGLSGLTKFILGSIGSAIAAVIARFY

TRTRPLE - GFP Tag - V

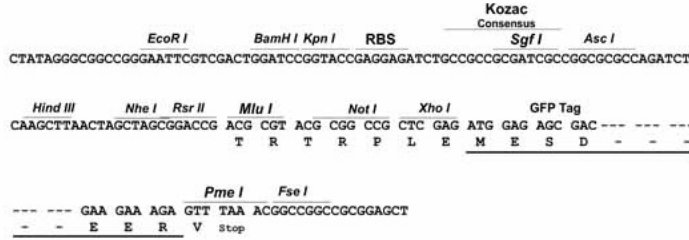
Restriction Sites: Sgfl-MluI



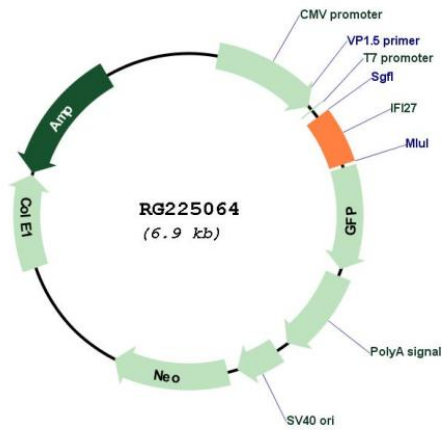
[View online »](#)

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001130080
 ORF Size: 366 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001130080.3](#)

RefSeq Size: 665 bp

RefSeq ORF: 369 bp

Locus ID: 3429

UniProt ID: [P40305](#)

Cytogenetics: 14q32.12

Protein Families: Transmembrane

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]