

Product datasheet for RC223649

IFNA4 (NM_021068) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFNA4 (NM_021068) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IFNA4
Synonyms: IFN-alpha4a; INFA4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC223649 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGTCTTTTCTTTACTGATGGCCGTGCTGGTGCTCAGCTACAAATCCATCTGTTCTCTGGGCT
 GTGATCTGCCTCAGACCCACAGCCTGGGTAATAGGAGGGCCTTGATACTCCTGGCACAAATGGGAAGAAT
 CTCTCATTTCTCCTGCCTGAAGGACAGACATGATTTCCGATTCCCGAGGAGGAGTTTGATGGCCACCAG
 TTCCAGAAGACTCAAGCCATCTCTGTCTCCATGAGATGATCCAGCAGACCTTCAATCTCTCAGCACAG
 AGGACTCATCTGTGCTTGGGAACAGAGCCTCCTAGAAAAATTTCCACTGAACCTTACCAGCAACTGAA
 TGACTTGAAGCATGTGTGATACAGGAGTTGGGGTGAAGAGACTCCCTGATGAATGAGGACTCCATC
 CTGGCTGTGAGGAAATACTTCAAAGAATCACTTTTATCTAACAGAGAAGAAATACAGCCCTTGTGCTT
 GGGAGTTGTGAGAGCAGAAATCATGAGATCCCTCTCGTTTTCAACAACTTGCAAAAAAGATTAAGGAG
 GAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223649 protein sequence
 Red=Cloning site Green=Tags(s)

MALSFLLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISHFSCLKDRHDFGFPEEEFDGHQ
 FQKTQAISVLHEMIQQTFNLFSTEDSSAAWEQSLLEKFSSTELYQQLNDLEACVIQEVGVEETPLMNEDSI
 LAVRKYFQRITLYLTEKKYSPCAWEVRAEIMRSLSFSTNLQKRLRRKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/mk6462_d01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_021068

ORF Size: 567 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_021068.3](#)

RefSeq Size: 982 bp

RefSeq ORF: 570 bp

Locus ID: 3441

UniProt ID: [P05014](#)

Cytogenetics: 9p21.3

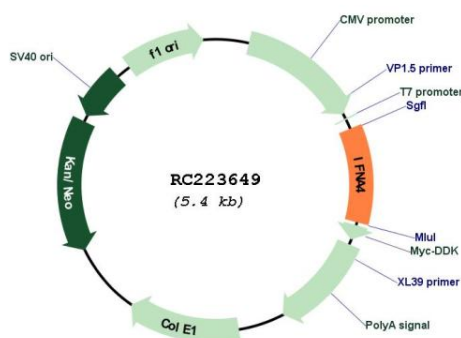
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Antigen processing and presentation, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, Regulation of autophagy, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

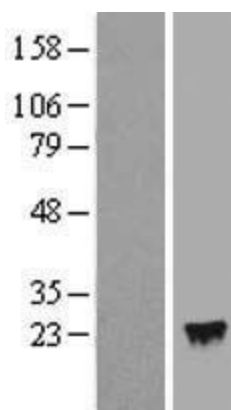
MW: 21.8 kDa

Gene Summary: Produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. [UniProtKB/Swiss-Prot Function]

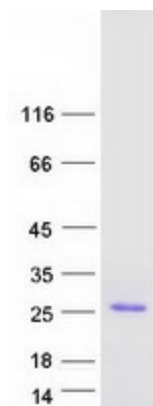
Product images:



Circular map for RC223649



Western blot validation of overexpression lysate (Cat# [LY412102]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223649 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IFNA4 protein (Cat# [TP323649]). The protein was produced from HEK293T cells transfected with IFNA4 cDNA clone (Cat# RC223649) using MegaTran 2.0 (Cat# [TT210002]).