

Product datasheet for RC210115

IFNA21 (NM 002175) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: IFNA21 (NM_002175) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: IFNA21

Synonyms: IFN-alphal; leIF-F; LeIF F

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC210115 ORF sequence
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >RC210115 protein sequence

Red=Cloning site Green=Tags(s)

MALSFSLLMAVLVLSYKSICSLGCDLPQTHSLGNRRALILLAQMGRISPFSCLKDRHDFGFPQEEFDGNQ FQKAQAISVLHEMIQQTFNLFSTKDSSATWEQSLLEKFSTELNQQLNDLEACVIQEVGVEETPLMNVDSI

LAVKKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSLSKIFQERLRRKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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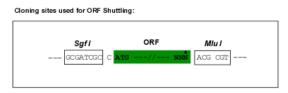
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com ORIGENE

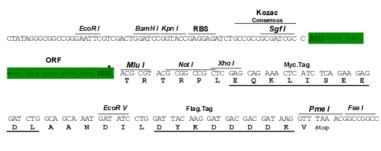
Chromatograms: https://cdn.origene.com/chromatograms/mk6370 b09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_002175

ORF Size: 567 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: <u>NM 002175.2</u>, <u>NP 002166.2</u>

RefSeq Size: 1024 bp RefSeq ORF: 570 bp Locus ID: 3452



UniProt ID: P01568
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

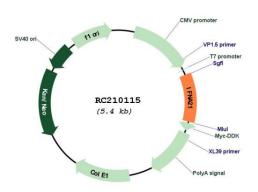
MW: 21.7 kDa

Gene Summary: This gene is a member of the alpha interferon gene cluster on the short arm of chromosome

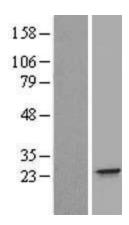
9. Interferons are cytokines produced in response to viral infection that mediate the immune response and interfere with viral replication. The encoded protein is a type I interferon and may play a specific role in the antiviral response to rubella virus. [provided by RefSeq, Sep

2011]

Product images:

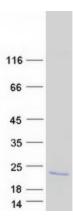


Circular map for RC210115



Western blot validation of overexpression lysate (Cat# [LY419491]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210115 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified IFNA21 protein (Cat# [TP310115]). The protein was produced from HEK293T cells transfected with IFNA21 cDNA clone (Cat# RC210115) using MegaTran 2.0 (Cat# [TT210002]).