

Product datasheet for RC210902

IFNA13 (IFNA1) (NM_024013) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFNA13 (IFNA1) (NM_024013) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IFNA13
Synonyms: IFL; IFN; IFN-ALPHA; IFN-alphaD; IFNA13; IFNA@; IeIF D
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210902 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCGCCCTTGGCTTTACTGATGGCCCTGGTGGTGGCTCAGCTGCAAGTCAAGCTGCTCTCTGGGCT
 GTGATCTCCCTGAGACCCACAGCCTGGATAACAGGAGGACCTTGATGCTCCTGGCACAAATGAGCAGAAT
 CTCTCCTCTCTGTCTGATGGACAGACATGACTTTGGATTTCCCAGGAGGAGTTTGATGGCAACCAG
 TTCCAGAAGGCTCCAGCCATCTGTCTCCATGAGCTGATCCAGCAGATCTCAACCTCTTACCACAA
 AAGATTCATCTGTGCTTGGGATGAGGACCTCCTAGACAAATTCGCACCGAACTCTACCAGCAGCTGAA
 TGACTTGAAGCCTGTGTGATGCAGGAGGAGGGTGGGAGAACTCCCCTGATGAATGCGGACTCCATC
 TTGGCTGTGAAGAAATACTTCCGAAGAATCACTCTCTATCTGACAGAGAAGAAATACAGCCCTTGTGCCT
 GGGAGGTTGTGAGCAGAAATCATGAGATCCCTCTTTATCAACAACTTGAAGAAAGATTAAGGAG
 GAAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210902 protein sequence
 Red=Cloning site Green=Tags(s)

MASPFALLMALVVL SCKSSCSLGC DLPETHSLDNRR TMLLLAQMSRI SPSSCLMDR HDGFPQEEFDGNQ
 FQKAPAI SVLHEL IQQIFNLFTTKDSSAAWDE DLLDKFCTEL YQQLNDLEACVMQE ERVGETPLMNADSI
 LAVKKYFR RITLYL TEKKYSPCAWEV VRAEIMRSL SLSTNLQERLRKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6008_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024013

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: [NM_024013.3](#)

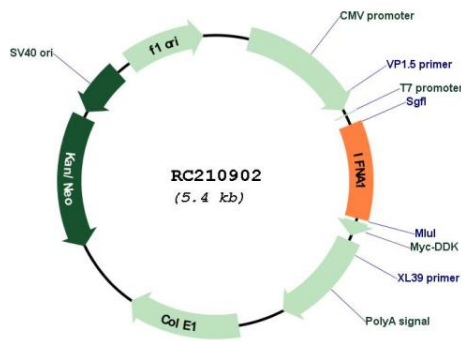
RefSeq Size: 863 bp

RefSeq ORF: 570 bp

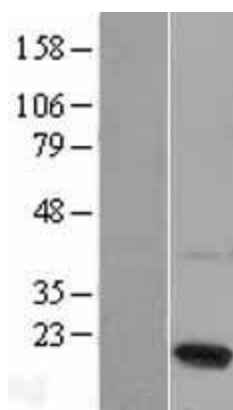
Locus ID: 3439

UniProt ID: [P01562](#)
Cytogenetics: 9p21.3
Protein Families: Druggable Genome
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 chromosome 9. The encoded cytokine is a member of the type I interferon family that is produced in response to viral infection as a key part of the innate immune response with potent antiviral, antiproliferative and immunomodulatory properties. This cytokine, like other type I interferons, binds a plasma membrane receptor made of IFNAR1 and IFNAR2 that is ubiquitously expressed, and thus is able to act on virtually all body cells. This cytokine is upregulated in preeclamptic placentas and is thought to be a mediator of preeclampsia. [provided by RefSeq, Aug 2020]

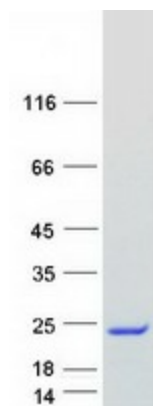
Product images:



Circular map for RC210902



Western blot validation of overexpression lysate (Cat# [LY402974]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210902 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IFNA1 protein (Cat# [TP310902]). The protein was produced from HEK293T cells transfected with IFNA1 cDNA clone (Cat# RC210902) using MegaTran 2.0 (Cat# [TT210002]).