

Product datasheet for RC212411

IFNA14 (NM_002172) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFNA14 (NM_002172) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IFNA14
Synonyms: IFN-alphaH; LEIF2H
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212411 representing NM_002172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCATTGCCCTTGGCTTTAATGATGGCCCTGGTGGTGGCTCAGCTGCAAGTCAAGCTGCTCTCTGGGCT
 GTAATCTGTCTCAAACCCACAGCCTGAATAACAGGAGGACTTTGATGCTCATGGCACAATGAGGAGAAT
 CTCTCCTTTCTCCTGCCTGAAGGACAGACATGACTTTGAATTTCCCAGGAGGAATTTGATGGCAACCAG
 TTCCAGAAAGCTCAAGCCATCTCTGTCTCCATGAGATGATGCAGCAGACCTTCAATCTCTTCAGCACAA
 AGAACTCATCTGTGCTTGGGATGAGACCCTCCTAGAAAAATTCTACATTGAACTTTCCAGCAAATGAA
 TGACCTGGAAGCCTGTGTGATACAGGAGGTTGGGGTGGAAAGAGACTCCCTGATGAATGAGGACTCCATC
 CTGGCTGTGAAGAAATACTTCAAAGAATCACTCTTTATCTGATGGAGAAGAAATACAGCCCTTGTGCCT
 GGGAGGTTGTCAGAGCAGAAATCATGAGATCCCTCTCTTTTTCAACAACTTGCAAAAAAGATTAAGGAG
 GAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212411 representing NM_002172
 Red=Cloning site Green=Tags(s)

MALPFALMMALVVL SCKSSCSLGCNLSQTHSLNNRRTLMMAQMRRI SPFSCLKDRHDFEFPQEFDGNQ
 FQKAQAISVLHEMMQQT FNLFSTKNSSAAWDETLLLEKFYIELFQQMNDLEACVIQEVGVEETPLMNEDSI
 LAVKKYFQRITLYLMEKKYSPCAWEVRAEIMRSLSFSTNLQKRLRRKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6560_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002172

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.

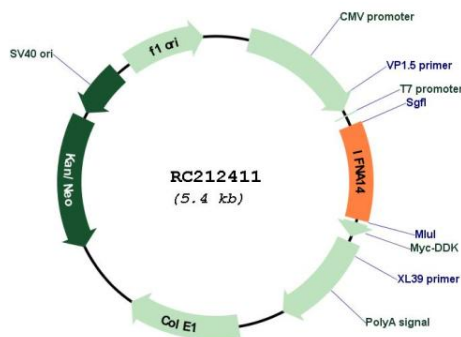
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002172.3](#)

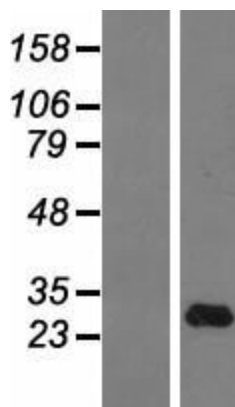
RefSeq Size: 985 bp

RefSeq ORF: 570 bp
Locus ID: 3448
UniProt ID: [P01570](#)
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: 21.9 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 RC212411



Western blot validation of overexpression lysate (Cat# [LY419489]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212411 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).