

## Product datasheet for RC221055

### IFNK (NM\_020124) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IFNK (NM\_020124) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** IFNK  
**Synonyms:** IFNT1; INFE1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC221055 representing NM\_020124  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCACAAACCTGATATGATTCAAAGTGTGGCTTGAGATCCTTATGGGTATATTCATTGCTG  
GCACCCTATCCCTGGACTGTAACCTACTGAACGTTACCTGAGAAGAGTCACCTGGCAAAATCTGAGACA  
TCTGAGTAGTATGAGCAATTCATTTCTGTAGAATGTCTACGAGAAAACATAGCTTTTGAGTTGCCCAA  
GAGTTTCTGCAATACACCAACCTATGAAGAGGGACATCAAGAAGCCTTCTATGAAATGTCCTACAGG  
CCTTCAACATCTTCAGCCAACACACCTTCAAATATTGGAAAGAGAGACACCTCAAACAAATCCAAATAGG  
ACTTGATCAGCAAGCAGAGTACCTGAACCAATGCTTGGAGGAAGACAAGAATGAAAATGAAGACATGAAA  
GAAATGAAAGAGAATGAGATGAAACCCTCAGAAGCCAGGGTCCCCAGCTGAGCAGCCTGGAAGTGAAGG  
GATATTTCCACAGGATAGACAATTTCTGAAAGAAAAGAAATACAGTGACTGTGCCTGGGAGATTGTCCG  
AGTGAAATCAGAAGATGTTTGTATTACTTTTACAAATTTACAGCTCTATTCAGGAGGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221055 representing NM\_020124  
Red=Cloning site Green=Tags(s)

MSTKPDMIQKCLWLEILMGIFIAGTLSLDCNLLNVHLRRVTWQNLRLSSMSNSFPVECLRENI AFELPQ  
EFLQYTQPMKRDIKKA FYEMSLQAFNIFSQHTFKYWKERHLKQIQIGLDQQA EYLNQCLEEDKNENEDMK  
EMKENEMKPSEARVPQLSSELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYFYKFTALFRK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4122\\_g07.zip](https://cdn.origene.com/chromatograms/mg4122_g07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020124

**ORF Size:** 621 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\\_020124.2](#)

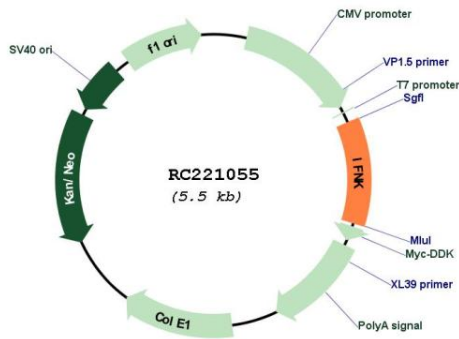
**RefSeq Size:** 1164 bp

**RefSeq ORF:** 624 bp

**Locus ID:** 56832

**UniProt ID:** [Q9P0W0](#)  
**Cytogenetics:** 9p21.2  
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane  
**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, RIG-I-like receptor signaling pathway  
**MW:** 22.1 kDa  
**Gene Summary:** This gene encodes a member of the type I interferon family. Type I interferons are a group of related glycoproteins that play an important role in host defenses against viral infections. This protein is expressed in keratinocytes and the gene is found on chromosome 9, adjacent to the type I interferon cluster. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC221055