

Product datasheet for **RC218039**

IFNAR2 (NM_207585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFNAR2 (NM_207585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IFNAR2
Synonyms:	IFN-alpha-REC; IFN-R; IFNABR; IFNARB; IMD45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218039 representing NM_207585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTT**GAGCCAGAATGCCTTCATCTTCAGATCACTTAATTTGGTTTCATGGTGTATATCAGCCTCG**
TGTTTGGTATTTCATATGATT**CGCTGATTACACAGATGAATCTTGCAC**TTTCAAGATATCATT**GCGAAA**
 TTTCCGGTCCATCTTATCATGGGAATTA**AAAAA**CCACTCCATTGT**ACCAACTCACTATA**CATTGCTGTAT
 ACAATCATGAGTAA**ACCAGAAGATTTGAAGGTGGTTAAGA**ACTGT**GCAAATACCACA**AGATCATT**TTGTG**
 ACCTCACAGATGAGTGGAGAAGCACACAGAGGCCTATGTCACCGTCTAGAA**GGATT**CAGCGGGAACAC
 AACGTTGTT**CAGTTGCTCACACA**ATTTCTGGCTGGCCATAGACATGCTTTT**GAA**CCACCAGAGTT**TGAG**
 ATTGTTGGTTTTACCAACCACATTAATGTGATGGT**GAAATTTCCATCTATTGTTGAGGA**AAGATTACAGT
 TTGATTTATCTCTCGTCATTGAAGAACAGT**CAGAGGGAATTTGTTAAGA**AGCATA**AAACCCGAAATAA**AGG
 AAACATGAGTGGAAATTT**CACCTATATCATTGACA**AGTTAAT**TCCAAACACGAACTACTGT**TATCTGTT
 TATTTAGAGCACAGT**GATGAGCAAGCAGTAATAA**AGTCTCCCTTAA**ATGCACCCCTCTTCCACCTGGCC**
 AGGAATCAGAATCAGCAGAA**CTGCCAAAATAGGAGGAATAA**TTACTGTGTTTTT**GATAGCATTGGTCTT**
 GACAAGCACCATAGTGACACTGAAATGGATTGGTTATATGCTTAA**GAAATAGCCTCCCA**AAAGTCTTG
 AATTTT**CATAACTTTTTAGCCTGGCCATTTCTAACCTGCCACCGTTGGAAGCCATGGATATGGTGGAGG**
 TCATTTACATCAACAGAAAGAAAGTGTGGGATTATAATTATGATGATGAAAGT**GATAGCGATACTGA**
 GGCAGCGCC**CAGGACAAGTGGCGGTGGCTATACCATGCATGGACTGACTGTCAGGCCTCTGGGT**CAGGCC
 TCTGCCACCTCTACAGAATCC**CAGTTGATAGACCCGGAGTCCGAGGAGGACCTGACCTGCCTGAGGTTG**
 ATGTGGAGCTCC**CCACGATGCCAAAGGACAGCCCTCAGCAGTTGGA**ACTCTT**GAGTGGCCCTGTGAGAG**
 GAGAAAGAGTCCACTCCAGGACCTTTTCCCGAAGAGGACTACAGCTCCAGGAGGGGTCTGGGGG**CAGA**
 ATTACCTTCAATGTGGACTTAA**ACTCTGTGTTTTGAGAGTTCTTGATGACGAGGACAGT**GACGACTTAG
 AAGCCCTCTGATGCTATCGTCTCATCTGGAAGAGATGGTTGACCCAGAGGATCCTGATAATGTGCAATC
 AAACCATTTGCTGGCCAGCGGGGAAAGGGACACAGCCAACCTTTCCAGCCCTCTT**CAGAGGGCCTGTGG**
 TCCGAAGATGCTCCATCTGATCAAAGT**GACACTTCTGAGT**CAGATGTTGACCTTGGGGATGGTTATATAA
 TGAGA

ACGCGTACGCGGCCGCTCGAGCAGAA**ACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218039 representing NM_207585
 Red=Cloning site Green=Tags(s)

MLLSQNAFIFRSLN**LVL**VMYISLVFGISYD**SPDYTDESCTFKISLRNFRSILSWELKNHSIVPTHY**TLLY
 TIMSKPEDLKVVKNCANTTRSFCDL**TDEWRSTHEAYVTVLEGFSGNTTLFSCSHNFWLAIDMSFEPPEFE**
 IVGFTNHINVMVKFPSIVEEELQFDLSLVIEEQSEGIVK**HKHKEIKGNMSGNFTYIIDKLIPNTNYCVSV**
 YLEHSDEQAVIKSPLKCTLLPPGQ**ESESAESAKIGGIITVFLIALVLTSTIVTLKWIGYICLRNSLPKVL**
 NFNHFLAWFPNLP**PLEAMD**MVEVIYINRKKK**VWDYNYDDES**SDTEAPRTSGGGY**TMHGLTVRPLGQA**
 SATSTESQLIDPESE**EEPDLP**EVDELPTMPKDS**PQQL**ELLSGPCERRKS**PLQDPF**PEEDYS**STEGSGGR**
 ITFNVDLNSVFLRVLD**DESD**DL**EAPLMLSSHLEEMVDPEDPDNVQSNHLLASGEGTQPTFPSPS**SEGLW
 SEDAPSDQSDT**SESDV**LDGDGYIMR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_207585

ORF Size: 1545 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](#)

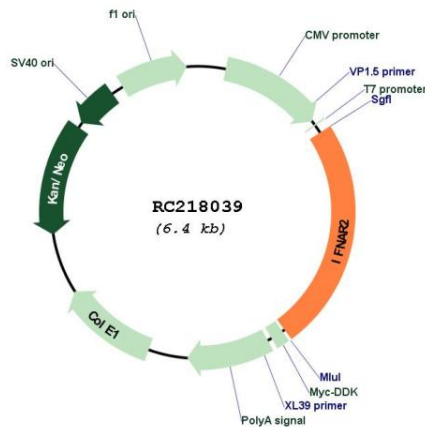
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

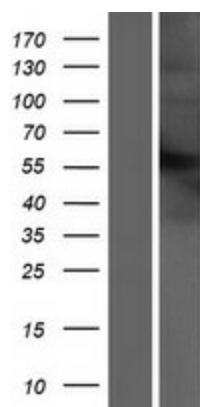
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_207585.2
RefSeq Size:	2898 bp
RefSeq ORF:	1548 bp
Locus ID:	3455
UniProt ID:	P48551
Cytogenetics:	21q22.11
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, Toll-like receptor signaling pathway
MW:	54.7 kDa
Gene Summary:	The protein encoded by this gene is a type I membrane protein that forms one of the two chains of a receptor for interferons alpha and beta. Binding and activation of the receptor stimulates Janus protein kinases, which in turn phosphorylate several proteins, including STAT1 and STAT2. The protein belongs to the type II cytokine receptor family. Mutations in this gene are associated with Immunodeficiency 45. [provided by RefSeq, Jul 2020]

Product images:



Circular map for RC218039



Western blot validation of overexpression lysate (Cat# [LY403927]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218039 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).