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Product datasheet for RC238664

IFNAR2 (NM_001289125) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFNAR2 (NM_001289125) 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)

ORF Nucleotide Sequence:

>RC238664 representing NM_001289125
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTTTGAGCCAGAATGCCTTCATCTTCAGATCACTTAATTTGGTTCTCATGGTGTATATCAGCCTCG
TGTTTGGTATTTCATATGATTCGCCTGATTACACAGATGAATCTTGCACTTTCAAGATATCATTGCGAAA
TTTCCGGTCCATCTTATCATGGGAATTAAAAAACCACTCCATTGTACCAACTCACTATACATTGCTGTAT
ACAATCATGAGTAAACCAGAAGATTTGAAGGTGGTTAAGAACTGTGCAAATACCACAAGATCATTTTGTG
ACCTCACAGATGAGTGGAGAAGCACACACGAGGCCTATGTCACCGTCCTAGAAGGATTCAGCGGGAACAC
AACGTTGTTCAGTTGCTCACACAATTTCTGGCTGGCCATAGACATGTCTTTTGAACCACCAGAGTTTGAG
ATTGTTGGTTTTACCAACCACATTAATGTGATGGTGAAATTTCCATCTATTGTTGAGGAAGAATTACAGT
TTGATTTATCTCTCGTCATTGAAGAACAGTCAGAGGGAATTGTTAAGAAGCATAAACCCGAAATAAAAGG
AAACATGAGTGGAAATTTCACCTATATCATTGACAAGTTAATTCCAAACACGAACTACTGTGTATCTGTT
TATTTAGAGCACAGTGATGAGCAAGCAGTAATAAAGTCTCCCTTAAAATGCACCCTCCTTCCACCTGGCC
AGGAATCAGAATCAGCAGAATCTGCCAAAATAGGAGGAATAATTACTGTGTTTTTGATAGCATTGGTCTT
GACAAGCACCATAGTGACACTGAAATGGATTGGTTATATATGCTTAAGAAATAGCCTCCCCAAAGTCTTG
AATTTTCATAACTTTTTAGCCTGGCCATTTCCTAACCTGCCACCGTTGGAAGCCATGGATATGGTGGAGG
TCATTTACATCAACAGAAAGAAGAAAGTGTGGGATTATAATTATGATGATGAAAGTGATAGCGATACTGA
GGCAGCGCCCAGGACAAGTGGCGGTGGCTATACCATGCATGGACTGACTGTCAGGCCTCTGGGTCAGGCC
TCTGCCACCTCTACAGAATCCCAGTTGATAGACCCGGAGTCCGAGGAGGAGCCTGACCTGCCTGAGGTTG
ATGTGGAGCTCCCCACGATGCCAAAGGACAGCCCTCAGCAGTTGGAACTCTTGAGTGGGCCCTGTGAGAG
GAGAAAGAGTCCACTCCAGGACCCTTTTCCCGAAGAGGACTACAGCTCCACGGAGGGGTCTGGGGGCAGA
ATTACCTTCAATGTGGACTTAAACTCTGTGTTTTTGAGAGTTCTTGATGACGAGGACAGTGACGACTTAG
AAGCCCCTCTGATGCTATCGTCTCATCTGGAAGAGATGGTTGACCCAGAGGATCCTGATAATGTGCAATC
AAACCATTTGCTGGCCAGCGGGGAAGGGACACAGCCAACCTTTCCCAGCCCCTCTTCAGAGGGCCTGTGG
TCCGAAGATGCTCCATCTGATCAAAGTGACACTTCTGAGTCAGATGTTGACCTTGGGGATGGTTATATAA
TGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

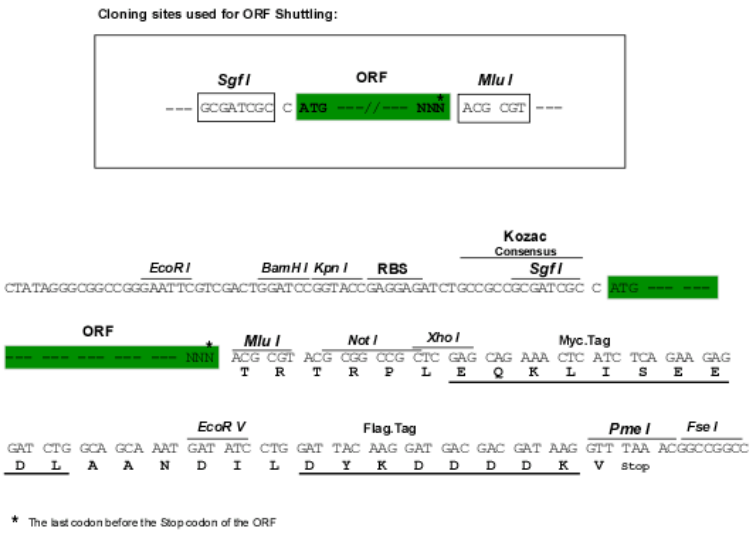
>RC238664 representing NM_001289125
Red=Cloning site Green=Tags(s)

MLLSQNAFIFRSLNLVLMVYISLVFGISYDSPDYTDESCTFKISLRNFRSILSWELKNHSIVPTHYTLLY
TIMSKPEDLKVVKNCANTTRSFCDLTDEWRSTHEAYVTVLEGFSGNTTLFSCSHNFWLAIDMSFEPPEFE
IVGFTNHINVMVKFPSIVEEELQFDLSLVIEEQSEGIVKKHKPEIKGNMSGNFTYIIDKLIPNTNYCVSV
YLEHSDEQAVIKSPLKCTLLPPGQESESAESAKIGGIITVFLIALVLTSTIVTLKWIGYICLRNSLPKVL
NFHNFLAWPFPNLPPLEAMDMVEVIYINRKKKVWDYNYDDESDSDTEAAPRTSGGGYTMHGLTVRPLGQA
SATSTESQLIDPESEEEPDLPEVDVELPTMPKDSPQQLELLSGPCERRKSPLQDPFPEEDYSSTEGSGGR
ITFNVDLNSVFLRVLDDEDSDDLEAPLMLSSHLEEMVDPEDPDNVQSNHLLASGEGTQPTFPSPSSEGLW
SEDAPSDQSDTSESDVDLGDGYIMR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001289125

ORF Size: 1545 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_001289125.3

RefSeq Size: 2966 bp

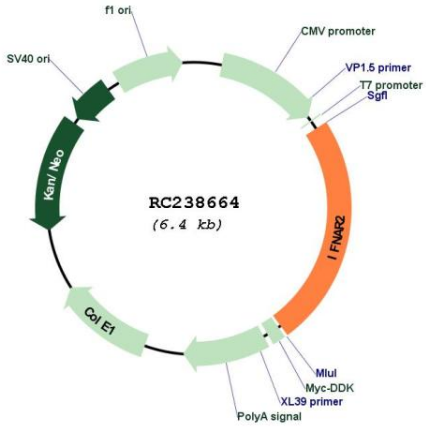
RefSeq ORF: 1548 bp

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:	57.8 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 RC238664