

## Product datasheet for **MR209200**

### Ifnar1 (NM\_010508) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ifnar1 (NM_010508) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ifnar1
Synonyms:	CD118; Ifar; Ifnar; Ifrc; Infar
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209200 representing NM\_010508  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCGTGTCTGTGGGCGGGCGGCCCTGGTGTGGTGGCCGGGCGCCTTGGGTGCTACCCCTCAGCTG  
 CAGGTGGAGAAAATCTGAAACCTCTGAGAATATAGACGTCTACATTATAGATGACAACTACACCCTAAA  
 GTGGAGCAGCCACGGAGAGTCAATGGGCAGTGTGACCTTTTCAGCAGAATATCGAACAAAAGACGAGGCG  
 AAGTGGTTAAAGTGCCTGAATGTCAACATACTACAACGACCAAGTGTGAATTCTCTTTACTGGACACAA  
 ATGTGTATATCAAAACACAGTTTCGTGTGAGAGCAGAGGAAGGGAACAGCACATCTTCGTGGAATGAGGT  
 TGATCCGTTTATCCATTCTACACAGCTCACATGAGCCCCCAGAAGTACGTTTAGAAGCTGAAGATAAA  
 GCCATACTAGTCCACATCTCTCCCGGACAAGACGGGAACATGTGGGCACTGGAGAAACCTTCCTTCA  
 GTTACACCATACGAATCTGGCAGAAGTCTCCAGTGACAAAAAACTATTAACCTACGTATTATGTAGA  
 AAAGATACCAGAACTCTGCCAGAGACTACTTACTGTTTAGAAGTTAAAGCAATACATCCGTCACCTAAG  
 AAACACAGCAATTACAGCACTGTGCAAGTATAAGCACCACAGTGGCAAATAAAATGCCTGTGCCAGGAA  
 ATCTCCAAGTGGATGCCAAGGCAAGAGCTATGTCCTGAAATGGGACTACATTGCGTCTGCAGACGTGCT  
 CTTCAGGGCACAGTGGCTTCTGGCTATTCAAAAAGCAGTTCTGGAAGCCGTTTCCAGATAATGGAACCA  
 ATACCAACCTGTGCAAAATGTCCAGACTACGCACTGTGCTTTTCTCAAGATACTGTCTACACAGGAACGT  
 TCTTTCTCCATGTACAAGCCTCAGAGGGAATCACACATCCTTTTGGTCTGAAGAGAAGTTTATTGATTC  
 TCAAAAACACATTCTCCCTTCTCCTCCGGTCATTACTGTACCGCCATGAGTGACACCTTGCTTGTTTAT  
 GTAAGATGTCAGGACAGCACATGTGATGGACTCAATTACGAAATCATCTTTTGGGAAAACACTTCCAATA  
 TCAAGATAAGCATGGAGAAGGATGGCCAGAGTTCACCCTCAAGAACCTGCAGCCGCTACTGTGTACTG  
 TGTCAGGCCAGAGTGTCTTTCAGGGCCCTGCTGAATAAGACCAGCAACTTCAGTGAAAAGCTGTGTGAG  
 AAAACACGTCCAGGAAGTTTTTCCACGACTCTGGATTATAACTGGATTAGGTGTTGTCTTCTCTGTCA  
 TGGTCTTTATGCTTTGAGGAGCGTCTGAAAATACCTGTGTCATGTGTGCTTCCCACCACTCAAGCCTCC  
 CCGCAGTATTGATGAGTTTTTCTCTGAGCCGCTTCAAAAACCTTGTACTTCTGACGGCTGAGGAGCAC  
 ACGGAAAGATGCTTCATCATTGAGAATACAGACACGGTCGCTGTAGAAGTAAAGCACGCGCTGAGGAGG  
 ACCTCAGGAAGTACAGCTCACAGACCAGCCAGGACTCGGGCAACTATTCCAACGAAGGGGAGGAGAGTGT  
 GGGCACCGAGAGCGCCAAGCTGTGCTCTCCAAGCTCCCTCGGGGGGCCATGCAGCGTGCCTAGCCCT  
 CCTGGGACCTTGAAGACGGGACCTGCTTCTGGGAAATGAAAAATATCTTCAGAGCCCAGCCCTGAGGA  
 CAGAGCCAGCTCTCTCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209200 representing NM\_010508  
 Red=Cloning site Green=Tags(s)

MLAVVGAALVLVAGAPWVLPASAAGGENLKPPENIDVYIIDDNYTLKWSHGESMGSVTFSAEYRTKDEA  
 KWLKVPECQHTTTTKCEFSLLDTNVYIKTQFRVRAEEGNSTSSWNEVDPFIPFYTAHMSPPEVRLEAEDK  
 AILVHISPPGQDGNMWALEKPSFSYTIIRIWQSSDKKINSTYYVEKIPPELLPETTYCLEVKAIHPSLK  
 KHSNYSTVQCISTTVANKMPVPGNLQVDAQKSYVLKWDYIASADVLFRAQWLPGYSKSSSGSRSDKWKP  
 IPTCANVQTTHCVFSQDTVYTGTFLLHVQASEGNHTSFWSEEKIDSQKHILPSPPVITVTAMSDTLVY  
 VNCQDSTCDGLNVEIIFWENTSNTKISMEKDGPEFTLKNLQPLTVYCVQARVLFALLNKTSNFSEKLCE  
 KTRPGFSSTIWIITGLGVVFFSVMVLYALRSVWKYLCHVCFPPLKPPRSIDIFFSEPPSKNLVLLTAEEH  
 TERCFIIENTDTVAVEVKHAPEEDLRKYSSQTSQDSGNYNEGEEESVGTESGQAVLSKAPCGGPCSVSPS  
 PGTLEDGTCFLGNEKYLQSPALRTEPALLC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010508

**ORF Size:** 1770 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\\_010508.1](#), [NM\\_010508.2](#), [NP\\_034638.1](#)

**RefSeq Size:** 3894 bp

**RefSeq ORF:** 1773 bp

**Locus ID:** 15975

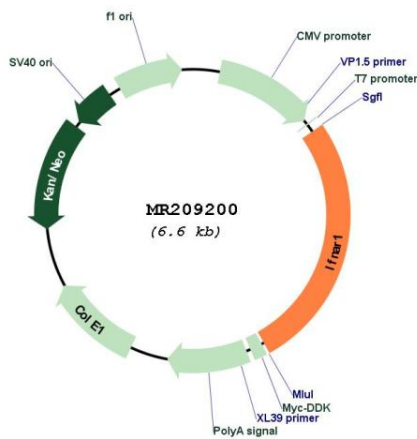
**UniProt ID:** [P33896](#)

**Cytogenetics:** 16 52.98 cM

**MW:** 66.2 kDa

**Gene Summary:** Component of the receptor for type I interferons, including interferons alpha, IFNB1 and IFNW1 (PubMed:1533935, PubMed:14532120, PubMed:23872679). Functions in general as heterodimer with IFNAR2 (By similarity). Type I interferon binding activates the JAK-STAT signaling cascade, and triggers tyrosine phosphorylation of a number of proteins including JAKs, TYK2, STAT proteins and the IFNR alpha- and beta-subunits themselves (PubMed:14532120). Can form an active IFNB1 receptor by itself and activate a signaling cascade that does not involve activation of the JAK-STAT pathway (PubMed:23872679). Contributes to modulate the innate immune response to bacterial lipopolysaccharide (PubMed:23872679).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209200