

## Product datasheet for **MG208241**

### Ifnar2 (NM\_010509) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ifnar2 (NM_010509) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ifnar2
Synonyms:	A1747302; Ifnar-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208241 representing NM\_010509  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGTTCACGGTGCACCGTCTCTGCCGTCGGTCTCCTCAGCTTGTGTCTTGTGGTGTCTCGGAGCCTAG  
 AGACTATCACACCGTCTGCTTTTATGATGGGTATCCAGATGAACCTTGCCTATAAAACATAACAATACGAAA  
 TTCCCGGCTAATTTTATCCTGGGAATTAGAGAACAAGTCTGGCCACCCGCTAACTACACCCCTCTGGTAC  
 ACAGTCATGAGCAAAGACGAAAACTGACGAAGGTTAAGAAGTTCAGATACCACGAAGTCATCATGTG  
 ACGTGACAGATAAGTGGTTGGAGGGCATGGAGAGCTACGTCGTCGCCATCGTCATAGTGCACAGAGGGGA  
 CTTGACCGTGTGCCGCTGCTCAGACTACATCGTGCCTGCAAACGCTCCTCTTGGCCGCGCAGAAATTTGAG  
 ATCGTTGGCTTTACAGACCACATAAACGTGACGATGGAATTTCCACCTGTCACTTCCAAAATAATCCAGG  
 AAAAGATGAAGACTACACCCCTTTGTATCAAAGAACAGATAGGGGACAGCGTTAGGAAGAAGCACGAGCC  
 CAAAGTGAATAATGTCAGTGGGAACCTCACATTTGTCCTTAGAGACTTACTTCCAAAGACAACTACTGT  
 GTATCTCTTTATTTTATGATGATGACCCCGCAATAAAATCTCCCTTAAAATGCATCGTCTTTCAGCCTGGCC  
 AGGAATCAGGATTATCAGAATCTGCTATAGTAGGAATAACTACTTCGTGTTTGGTGTGATGATGTTTTCGT  
 GAGCACTATCGTAATGCTGAAACGGATTGGTTATATATGCCTAAAAGACAATTTGCCCAATGCTTTGAAC  
 TTCCGCCACTTTTTAACCTGGATAATCCCTGAACGGTCACCTTCAGAAGCCATCGATCGGCTGGAATCA  
 TCCCCACAACAAGAAGAAGAGACTGTGGAAATACGATTATGAGGATGGCAGTGACAGTGACGAAGAGGT  
 CCCACAGCAAGTGTCACTGGCTACACCATGCATGGACTGACGGGCAAGCCTCTGCAACAAACCTCTGAC  
 ACCTCAGCCAGCCCCGAGGATCCCCTGCATGAAGAAGATTCAGGCGCTGAGGAATCTGATGAAGCTGGAG  
 CAGGGGCTGGAGCTGAGCCAGAACCTCCCACAGAGGGCGGGGCGGGCCCTCAGAAGACCCCACTGGCC  
 CTATGAGAGAAGAAGAGTGTGCTCGAGGACTCATTCCCAGGGAGGACACAGCTCCATGGATGAGCCT  
 GGGGACAACATTATCTCAACGTGAACCTAAACTCTGTGTTTCTGAGGGTCTCCATGATGAAGTGCCT  
 CAGAGACATTATCTCGAAGAAGACACCATCCTCCTAGACGAAGGTCCCAGAGGACAGAGTCAAGCCT  
 TCGGATAGCTGGTGGGACAGGACACAGCCGCCCTCCCAGCCTTCTTCCCAGGATCTATGGACTGAA  
 GATGGGTCATCTGAGAAATCAGACACCTCAGATTCCGATGCTGATGTGGGGACGGCTACATCATGAGA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208241 representing NM\_010509  
 Red=Cloning site Green=Tags(s)

MRSRCTVSAVGLLSLCLVVSASLETITPSAFDGYDPEPTINITIRNSRLILSWELNENKSGPPANYTLWY  
 TVMSKDENLTKVKNCSDDTKSSCDVTDKWLEGMESYVVAIVIVHRGDLTVCRCSYIVPANAPLEPPEFE  
 IVGFTHINVTMEFPPVTSKIIQEKMKTPFVVIKEQIGDSVRKKHEPKVNNVTGNFTFVLRDLLPKTNYC  
 VSLYFDDPAIKSPLKCIVLQPGQESGLSESAIVGITTSCLVVMVFVSTIVMLKRIGYICLKDNLPNVLN  
 FRHFLTWIIIPERSPSEAIRLEIIPITNKKRLWNYDYEDGSDSDEEVPTASVTGYTMHGLTGKPLQQTSD  
 TSASPEDPLHEEDSGAEESDEAGAGAGAEPPELPTGAGAGPSEDPTGPYERRKSVLEDSFPREDNSSMDEP  
 GDNIIFNVNLNSVFLRVLHDEDASETLSLEEDTILLDEGPQRTESDLRIAGGDRTPPLPSLPSQDLWTE  
 DGSSEKSDTSDSDADVGDGYIMR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

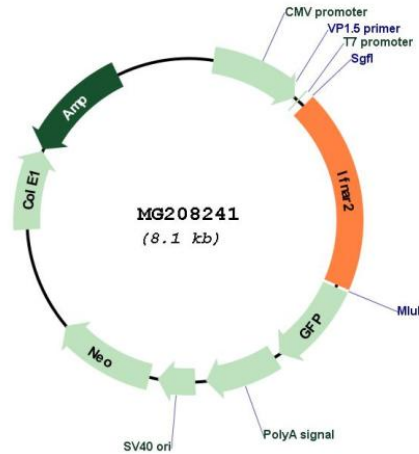
Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---  
 T R T R P L E M E S D - - -

PmeI FseI  
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
 - - E E R V Stop

**Plasmid Map:**


**ACCN:** NM\_010509

**ORF Size:** 1539 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\\_010509.2](#), [NP\\_034639.2](#)

**RefSeq Size:** 2715 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 15976

**UniProt ID:** [O35664](#)

**Cytogenetics:** 16 52.82 cM

**Gene Summary:** Associates with IFNAR1 to form the type I interferon receptor. Receptor for interferons alpha and beta. Involved in IFN-mediated STAT1, STAT2 and STAT3 activation. Isoform 1 and isoform 2 are directly involved in signal transduction due to their association with the TYR kinase, JAK1. Isoform 2 and isoform 3 may be potent inhibitors of type I IFN receptor activity. [UniProtKB/Swiss-Prot Function]