

## Product datasheet for **RG219921**

### IFNAR2 (NM\_000874) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IFNAR2 (NM_000874) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IFNAR2
Synonyms:	IFN-alpha-REC; IFN-R; IFNABR; IFNARB; IMD45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219921 representing NM_000874 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTTTGAGCCAGAATGCCTTCATCTTCAGATCACTTAATTTGGTTCTCATGGTGTATATCAGCCTCG  
TGTTTGGTATTTTCATATGATTCGCCTGATTACACAGATGAATCTTGCACTTTCAAGATATCATTGCGAAA  
TTTCCGGTCCATCTTATCATGGGAATTAACCAACTCCATTGTACCAACTCACTATACATTGCTGTAT  
ACAATCATGAGTAAACCAGAAGATTTGAAGGTGGTTAAGAAGTGTGCAAAATACCACAAGATCATTGTTG  
ACCTCACAGATGAGTGGAGAAGCACACAGAGGCCTATGTCACCGTCCTAGAAGGATTCAGCGGGAACAC  
AACGTTGTTTCAGTTGCTCACACAATTTCTGGCTGGCCATAGACATGTCTTTGAACCACCAGAGTTGAG  
ATTGTTGGTTTTACCAACCACATTAATGTGATGGTAAATTTCCATCTATTGTTGAGGAAGAATTACAGT  
TTGATTTATCTCTCGTCATTGAAGAAGCAGTCAGAGGGAATTGTTAAGAAGCATAAACCCGAAATAAAGG  
AAACATGAGTGGAAATTTACCTATATCATTGACAAGTTAATTCCAAACACGAACTACTGTGTATCTGTT  
TATTTAGAGCACAGTGATGAGCAAGCAGTAATAAAGTCTCCCTTAAATGCACCCCTCCACCTGGCC  
AGGAATCAGAATCAGCAGAATCTGCCAAATAGGAGGAATAATTACTGTGTTTTGATAGCATTGGTCTT  
GACAAGCACCATAGTGACTGAAATGGATTGGTTATATATGCTTAAGAAATAGCCTCCCCAAAGTCTTG  
AGGCAAGTCTCGCTAAGGGCTGGAATGCAGTGGCTATTCACAGTGCAGTCATAATGACTACAGTCTG  
AAACTCTGAGCTCAAACAGTCGCTCCTGCCTAAGCTTCCCCAGTACGCTGGGATTACAAGCGTGCATCCCT  
GTGCCCCAGTGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG219921 representing NM\_000874  
Red=Cloning site Green=Tags(s)

MLLSQNAFIFRSLNLVLMVYISLVFGISYDSPDYDESCTFKISLRNFRSILSWELKNHSIVPTHYLLY  
 TIMSKPEDLKVVKNCAANTTRSFCDLTDWRSTHEAYVTVLEGFSGNTTLFSCSHNFWLAIDMSFEPPEFE  
 IVGFTNHINVMVKFPSIVEEELQFDLSLVIEEQSEGIVKHKHPEIKGNMSGNFYIIDKLIPTNYCVSV  
 YLEHSDEQAVIKSPLKCTLLPPGQESAEASAKIGGIITVFLIALVLTSTIVTLKWIGYICLRNSLPKVL  
 RQGLAKGWNVAIHRCSHNLQSETPELKQSSCLFSPSSWDYKRASLCPSP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000874

**ORF Size:** 993 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\\_000874.5](#)

**RefSeq Size:** 1428 bp

**RefSeq ORF:** 996 bp

**Locus ID:** 3455

**UniProt ID:** [P48551](#)

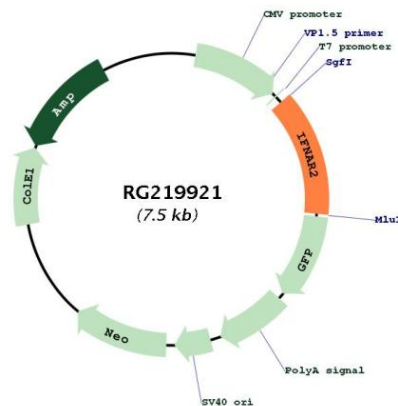
**Cytogenetics:** 21q22.11

**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

**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 RG219921