

## Product datasheet for **RG205141**

### IFNAR1 (NM\_000629) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IFNAR1 (NM_000629) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IFNAR1
Synonyms:	AVP; IFN-alpha-REC; IFNAR; IFNBR; IFRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205141 representing NM\_000629  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGGTCGTCCTCTGGGCGCGACACCTAGTGCTCGTCGCCGTGGCGCCATGGGTGTTGCCGAC  
 CCGCAGGTGGAAAAATCTAAAATCTCCTCAAAAAGTAGAGGTCGACATCATAGATGACAACTTTATCCT  
 GAGGTGGAACAGGAGCGATGAGTCTGTCGGAATGTGACTTTTTTCATTGATTATCAAAAACTGGGATG  
 GATAATTGGATAAAAATTGCTGGGTGTCAGAATATTACTAGTACCAAATGCAACTTTTCTCACTCAAGC  
 TGAATGTTTATGAAGAAATTAATTGCGTATAAGAGCAGAAAAAGAAAACACTTCTTCATGGTATGAGGT  
 TGACTCATTTACACCATTTGCGAAAGCTCAGATTGGTCTCCAGAAGTACATTTAGAAGCTGAAGATAAG  
 GCAATAGTGATACACATCTCTCGGAACAAAAGATAGTGTATGTGGGCTTTGGATGGTTAAGCTTTA  
 CATATAGCTTAGTTATCTGGAAAACTTTCAGGTGTAGAAGAAAGGATTGAAAAATTTTATTCCAGACA  
 TAAAATTTATAAACTCTACCAGAGACTACTTATTGTCTAAAAGTTAAAGCAGCACTACTTACGTATGG  
 AAAATTTGGTGTCTATAGTCCAGTACATTGTATAAAGACCAGATTGAAAAAGAACTACCTCCACCAGAAA  
 ATATAGAAGTCAGTGTCCAAAATCAGAACTATGTTCTTAAATGGGATTATACATATGCAAAACATGACCTT  
 TCAAGTTCAGTGGCTCCACGCCTTTTTAAAAAGGAATCCTGGAACCATTGTATAAATGGAACAAATA  
 CCTGACTGTGAAAATGTCAAACTACCCAGTGTCTTTTCTCAAAACGTTTTCCAAAAGGAATTTACC  
 TTCTCCGCGTACAAGCATCTGATGGAAATAACACATCTTTTTGGTCTGAAGAGATAAAGTTTGATACTGA  
 AATAAAGCTTTCTACTTCTCCAGTCTTAAACATTAGATCCCTTAGTGATTCAATCCATATCTATATC  
 GGTGCTCCAAAACAGTCTGGAACACGCCTGTGATCCAGGATTATCCACTGATTTATGAAATTTTTTT  
 GGGAAAACTTCAAATGCTGAGAGAAAAATTATCGAGAAAAAACTGATGTTACAGTTCCATAAATTTGAA  
 ACCACTGACTGTATATTGTGTGAAAGCCAGAGCACACACCATGGATGAAAAGCTGAATAAAAAGCAGTGTT  
 TTTAGTGACGCTGTATGTGAGAAAAAAAACCAGGAAATACCTCTAAAATTTGGCTTATAGTTGGAAATTT  
 GTATTGCATTATTTGCTCTCCGTTTGTCAATTTATGCTGCGAAAGTCTTCTTGAGATGCATCAATATGT  
 CTTCTTTCCATCACTTAAACCTTCTCCAGTATAGATGAGTATTTCTCTGAACAGCCATTGAAGAATCTT  
 CTGCTTTCAACTTCTGAGGAACAAATCGAAAAATGTTTCATAATTGAAAAATAAGCACAAATGCTACAG  
 TAGAAGAACTAATCAAAGTATGAAGATCATAAAAAATACAGTTCCTCAAACTAGCCAAGATTGAGGAAA  
 TTATTCTAATGAAGATGAAAGCGAAAGTAAAACAAGTGAAGAACTACAGCAGGACTTTGTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG205141 representing NM\_000629  
 Red=Cloning site Green=Tags(s)

MMVLLGATTLVLVAVAPWVLSAAAGGKNLKSPQKVEVDIIDDNFILRWNRSDSVGNVTFSDYQKTGM  
 DNWIKLSGCQNITSTKCNFSSLKLNVEEIKLRIRAEKENTSSWYEVDSFVTPFRKAQIGPPEVHLEAEDK  
 AIVIHISPGTKDSVMWALDGLSFTYSLVIWKNSSGVEERIENIYSRHKIYKLSPETTYCLKVKAALLTSW  
 KIGVYSPVHCIKTTVENELPPPENIEVSVQNYVVKWDYTYANMTFQVQWLHAFKRNPNHLYKWKQI  
 PDCENVKTTQCVFPQNVFQKGIYLLRVQASDGNNTSFWSEEIKFDTEIQAFLLPPVFNIRSLSDSFHIYI  
 GAPKQSGNTPVIQDYPLIYEIIFWENTSNAERKIEKKTDTVLPNLKPLTVYCVKARAHTMDEKLNKSSV  
 FSDAVCEKTKPGNTSKIWLIVGICIALFALPFVIYAAKVFLRCINVFFPSLKPSSSIDEYFSEQLKNL  
 LLSTSEEQIEKCFIENISTIATVEETNQTDDEHKKYSSQTSQDSGNYSNEDESESKTSEELQQDFV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_000629

**ORF Size:** 1671 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\\_000629.3](#)

**RefSeq Size:** 6099 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 3454

**UniProt ID:** [P17181](#)

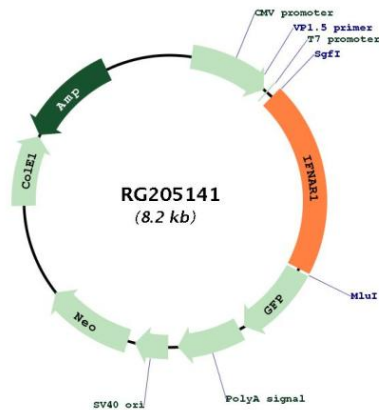
**Cytogenetics:** 21q22.11

**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 and functions as an antiviral factor. [provided by RefSeq, Jul 2020]

**Product images:**



Circular map for RG205141