

Product datasheet for **RG221831**

IL28 Receptor alpha (IFNLR1) (NM_173064) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL28 Receptor alpha (IFNLR1) (NM_173064) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL28 Receptor alpha
Synonyms:	CRF2/12; IFNLR; IL-28R1; IL28RA; LICR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221831 representing NM_173064
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGGGGCGGAGCGCTGGGGCCCCCTGCTCCTGTGCCTGCTGCAGGCCGCTCCAGGGAGGCCCGCTC
 TGGCCCCCCCCAGAATGTGACGCTGCTCTCCAGAACTTCAGCGTGACCTGACATGGCTCCAGGGCT
 TGGCAACCCCGAGGATGTGACCTATTTTGTGGCTATCAGAGCTCTCCACCCGTAGACGGTGGCGCGAA
 GTGGAAGAGTGTGCGGGAACCAAGGAGCTGCTATGTTCTATGATGTGCCTGAAGAAACAGGACCTGTACA
 ACAAGTTCAAGGGACGCGTGGGACGGTTTCTCCAGCTCCAAGTCCCCCTGGGTGGAGTCCGAATACCT
 GGATTACCTTTTGAAGTGGAGCCGGCCACCTGTCTGGTGTCTACCCAGACGGAGGAGATCTGAGT
 GCCAATGCCAGTACCAGCTGCCCCCTGCATGCCCCACTGGATCTGAAGTATGAGGTGGCATTCTGGA
 AGGAGGGGGCGGAAACAAGACCCTATTTCCAGTCACTCCCATGGCCAGCCAGTCCAGATCACTCTCCA
 GCCAGCTGCCAGCAACACCACTGCCTCAGTGCAGAACCATCTACACGTTCAAGTGTCCGAAATACAGC
 AAGTTCTCTAAGCCACCTGCTTCTTGCTGGAGGTCCCAGAAGCCAAGTGGGCTTTCCTGGTGTGCCAT
 CGCTTCTGATACTGCTGTAGTAATTGCCGACGGGGGTGTGATCTGGAAGACCCTCATGGGAACCCCTG
 GTTTCAGCGGGCAAGATGCCACGGGCCCTGGAAGTACCAGAGGGGTACAGGCCGACGCCTCGAGTCAGG
 GCCCCAGCCACCAACAGACAAGATGGAAGAAGGACCTTCAGAGGACGAAGAGGAGGAGATGAGGAGG
 ACACAGAAGATGGCGTCAGCTTCCAGCCCTACATTGAACCACTTCTTTCCTGGGCAAGAGCACCAGGC
 TCCAGGGCACTCGGAGGCTGGTGGGGTGGACTCAGGGAGGCCAGGGCTCCTCTGGTCCCAAGCGAAGGC
 TCCTCTGCTTGGGATTCTTCAGACAGAAGCTGGGCCAGCACTGTGGACTCCTCTGGGACAGGGCTGGGT
 CCTCTGGCTATTTGGCTGAGAAGGGGCCAGGCCAAGGGCCGGGTGGGATGGGCACCAAGAATCTCTCCC
 ACCACCTGAATTCTCAAGGACTCGGGTTTCTGGAAGAGCTCCAGAAAGATAACCTCTCCTCTGGGCC
 ACCTGGGGCACCTTACCACGGAGCCGAATCTGGTCCCTGGGGGACCCCAAGTTTCTCTTCAGACACTGA
 CCTTCTGCTGGGAAAGCAGCCCTGAGGAGGAAGAGGAGGCGAGGGAATCAGAAATTGAGGACAGCGATGC
 GGGCAGCTGGGGGGCTGAGAGCACCCAGAGGACCGAGGACAGGGGCCGGACATTGGGGCATTACATGGCC
 AGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221831 representing NM_173064
 Red=Cloning site Green=Tags(s)

MAGPERWGPLLLCLLQAAPGRPRLPAPPQNVTLTSQNFVSVYLTWLPGLGNPQDVITYFVAYQSSPTRRRWRE
 VEECAGTKELLCSMMCLKKQDLYNKFKGRVRTVSPSSKSPWVESEYLDYLFEEVAPPVLVLTQTTEEILS
 ANATYQLPPCMPPLDLKYEVAFWKEGAGNKTLPVTPHGQPVQITLQPAASEHHCLSARTIYTFVSPKYS
 KFSKPTCFLLEVPANWAFVLPSLLILLVIAAGGVIWKTLMGNPWFQRAKMPRALELTRGVRPTPRVR
 APATQQTRWKKDLAEDEEEDEEDTEDGVSFQPYIEPPSFLGQEHQAPGHSEAGGVDSGRPRAPLPVSEG
 SSAWDSSDRSWASTVDSSWDRASSGYLAKEGPGQGGDGHQESLPPPEFSKDSGFLEELPEDNLSSWA
 TWGTLPPPEPNLVPGGPPVSLQTLTFCWESSPEEEEEARESEIEDSDAGSWGAESTQRTEDRGRTLGHYMA
 R

SGPTRTRRLE – GFP Tag – V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_173064

ORF Size: 1473 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_173064.3](#)

RefSeq Size: 4462 bp

RefSeq ORF: 1476 bp

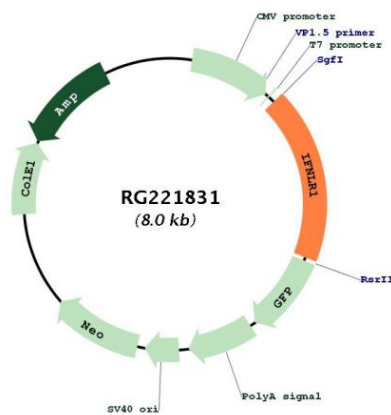
Locus ID: 163702

UniProt ID: [Q8IU57](#)

Cytogenetics: 1p36.11

Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
Gene Summary:	The protein encoded by this gene belongs to the class II cytokine receptor family. This protein forms a receptor complex with interleukine 10 receptor, beta (IL10RB). The receptor complex has been shown to interact with three closely related cytokines, including interleukin 28A (IL28A), interleukin 28B (IL28B), and interleukin 29 (IL29). The expression of all three cytokines can be induced by viral infection. The cells overexpressing this protein have been found to have enhanced responses to IL28A and IL29, but decreased response to IL28B. Three alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221831