

Product datasheet for **RG233115**

IL31RA (NM_001242636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL31RA (NM_001242636) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL31RA
Synonyms:	CRL; CRL3; GLM-R; GLMR; GPL; hGLM-R; IL-31RA; PLCA2; PRO21384; zcytoR17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG233115 representing NM_001242636
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCTCTCTCCCAGCCTTCATGTGTTAACCTGGGGATGATGTGGACCTGGGCACTGTGGATGCTCC
 CCTCACTCTGCAAATTCAGCCTGGCAGCTCTGCCAGCTAAGCCTGAGAACATTTCTGTGTCTACTACTA
 TAGGAAAAATTTAACCTGCACCTGGAGTCCAGGAAAGGAAACCAGTTATACCCAGTACACAGTTAAGAGA
 ACTTACGCTTTTGGAGAAAAACATGATAATTGTACAACCAATAGTTCTACAAGTAAAAATCGTGCTTCGT
 GCTCTTTTTCTTCCAAGAATAACGATCCAGATAATTATACCATTGAGGTGGAAGCTGAAAAATGGAGA
 TGGTGAATTAATCTCATATGACATACTGGAGATTAGAGAACATAGCGAAAACTGAACCACCTAAGATT
 TTCGCTGTAAACCGTTTTGGGCATCAAACGAATGATTCAAATTGAATGGATAAAGCCTGAGTTGGCGC
 CTGTTTCATCTGATTTAAAAATACACACTTCGATTCAAGACAGTCAACAGTACCAGCTGGATGGAAGTCAA
 CTTTCGCTAAGAACCGTAAGGATAAAAAACCAACGTACAACCTCACGGGGCTGCAGCCTTTTACAGAATAT
 GTCATAGCTCTGCGATGTGCGGTCAAGGAGTCAAAGTTCTGGAGTGACTGGAGCCAAAGAAAAATGGGAA
 TGACTGAGGAAGAAGCTCCATGTGGCCTGGAACCTGTGGAGAGTCTGAAACCAGCTGAGGCGGATGGAAG
 AAGGCCAGTGCAGTTGTTATGGAAGAAGGCAAGAGGAGCCCCAGTCTAGAGAAAACACTTGGCTACAAC
 ATATGGTACTATCCAGAAAGCAACACTAACCTCACAGAAACAATGAACACTACTAACCAGCAGCTTGAAC
 TGCATCTGGGAGGCGAGAGCTTTTGGGTGTCTATGATTTCTTATAATTCTCTTGGGAAGTCTCCAGTGGC
 CACCCTGAGGATTCAGCTATTCAGAAAAATCATTTCAGTGCATTGAGGTGATGCAGGCCTGCGTTGCT
 GAGGACCAGCTAGTGGTGAAGTGGCAAAGCTCTGCTCTAGACGTGAACACTTGGATGATTGAATGGTTTC
 CGGATGTGGACTCAGAGCCCACCCTTTCTGGGAATCTGTGTCTCAGGCCACGAACCTGGAGATGCA
 GCAAGATAAATTAACCTTTCTGGTGCTATAACATCTCTGTGTATCCAATGTTGCATGACAAAGTTGGC
 GAGCCATATTCCATCCAGGCTTATGCCAAAGAAGGCGTCCATCAGAAGTCTGAGACCAAGGTGGAGA
 ACATTGGCGTGAAGACGGTCACGATCACATGGAAGAGATTCCCAAGAGTGAGAGAAAGGTATCATCTG
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 ATGATTTCAAGGATAAGCTAAACCTGAAGGAGTCTGATGACTCTGTGAACACAGAAGACAGGATCTTAAA
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 GAAATTTTACAGATGAAGCCAGAACGGGTGAGGAAAACAATTTAGGAGGGGAAAAGATGGGTATGTGA
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 GCCAGAAAAATCCAATACCTACGTTTCAGGATGCCAGAGGGGACCCGCCAGAACCAAGAGCAGCTT
 CTCTTTTCTGGTCAAAGTTTAGTACCAGATCATCTGTGTGAGGAAGGAGCCCAATCCATATTTGAAAA
 ATTCAGTGACAGCCAGGGAATTTCTGTGTCTGAAAAACTTCCAGAGCACACCAAGGGAGAAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233115 representing NM_001242636
 Red=Cloning site Green=Tags(s)

MKLSQPQSCVNLGMMWTWALWMLPSLCKFSLAALPAKPENISCVYYRKNLTCTWSPGKETSQYQYTKR
 TYAFGEKHDNCTTNSSTENRASCFFLPRITIPDNYTIEVEAENGDGVIKSHMTYWRLNI AKTEPPKI
 FRVKPVLGIKRMIQIEWIKPELAPVSSDLKYTLRFRTVNSTSWMEVNF AKNRKDKNQTYNLTGLQPFTEY
 VIALRCAVKESKFWSDWSQEKMGMT EEEAPCGLELWRVLKPAEADGRRPVRLWKKARGAPVLEKTLGYN
 IWYYPESENTNLTETMNTNQLELHLGGESFWVSMISYNSLGKSPVATLRIPAIQEKS FQCI EVMQACVA
 EDQLVVKWQSSALDVNTWMI EWFPD V DSEPTTLSWESVSQATNWTIQQDKL KPFWCYNI SVYPMLHDKVG
 EPYSIQAYAKEGVPSEGPETKVENIGVKT VITWKEIPKSERKGIICNYTIFYQAEGGKGF SKTVNSSIL
 QYGLESLKRKTSYIVQVMAS TSAGGTNGTSINFKTL SFSVF E I I L I T S L I G G G L L I L I I L T V A Y G L K K P N
 KLTHLCWPTV P N P A E S S I A T W H G D D F K D K L N L K E S D D S V N T E D R I L K P C S T P S D K L V I D K L V V N F G N V L Q
 EIFTDEARTGQENNLGGEKNGYVTC P F R P D C P L G K S F E E L P V S P E I P P R K S Q Y L R S R M P E G T R P E A K E Q L
 L F S G Q S L V P D H L C E E G A P N P Y L K N S V T A R E F L V S E K L P E H T K G E V

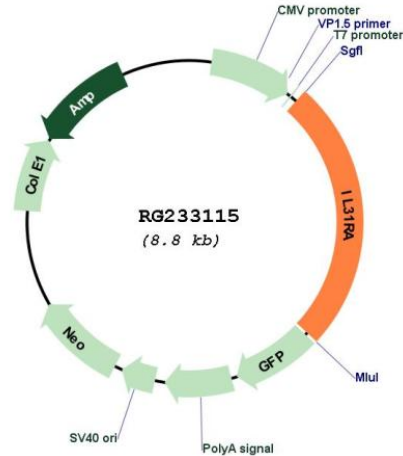
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001242636

ORF Size: 2235 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_001242636.1](#), [NP_001229565.1](#)

RefSeq Size: 2695 bp

RefSeq ORF: 2238 bp

Locus ID: 133396

UniProt ID: [Q8NI17](#)

Cytogenetics: 5q11.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene belongs to the type I cytokine receptor family. This receptor, with homology to gp130, is expressed on monocytes, and is involved in IL-31 signaling via activation of STAT-3 and STAT-5. It functions either as a monomer, or as part of a receptor complex with oncostatin M receptor (OSMR). Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jun 2011]