

Product datasheet for **RC233115**

IL31RA (NM_001242636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL31RA (NM_001242636) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL31RA
Synonyms:	CRL; CRL3; GLM-R; GLMR; GPL; hGLM-R; IL-31RA; PLCA2; PRO21384; zcytoR17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC233115 representing NM_001242636
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCTCTCTCCCAGCCTTCATGTGTAACTGGGGATGATGTGGACCTGGGCACTGTGGATGCTCC
 CCTCACTCTGCAATTCAGCCTGGCAGCTCTGCCAGCTAAGCCTGAGAACATTTCTGTGTCTACTACTA
 TAGGAAAAATTTAACCTGCACCTGGAGTCCAGGAAAGGAAACCAGTTATACCCAGTACACAGTTAAGAGA
 ACTTACGCTTTTGGAGAAAAACATGATAATTGTACAACCAATAGTTCTACAAGTAAAAATCGTGCTTCGT
 GCTCTTTTTCTTCCAAGAATAACGATCCAGATAATTATACCATTGAGGTGGAAGCTGAAAAATGGAGA
 TGGTGTAAATTAATCTCATATGACATACTGGAGATTAGAGAACATAGCGAAAACTGAACCACCTAAGATT
 TTCGTGTGAAACCGTTTTGGGCATCAAACGAATGATTCAAATTGAATGGATAAAGCCTGAGTTGGCGC
 CTGTTTCATCTGATTTAAAAATACACACTTCGATTCAAGACAGTCAACAGTACCAGCTGGATGGAAGTCAA
 CTTTCGCTAAGAACCGTAAGGATAAAAAACCAACGTACAACCTCACGGGGCTGCAGCCTTTTACAGAATAT
 GTCATAGCTCTGCGATGTGCGGTCAAGGAGTCAAAGTTCTGGAGTGACTGGAGCCAAAGAAAAATGGGAA
 TGACTGAGGAAGAAGCTCCATGTGGCCTGGAACCTGTGGAGAGTCTGAAACCAGCTGAGGCGGATGGAAG
 AAGGCCAGTGCAGTTGTTATGGAAGAAGGCAAGAGGAGCCCCAGTCTAGAGAAAACACTTGGCTACAAC
 ATATGGTACTATCCAGAAAGCAACACTAACCTCACAGAAACAATGAACACTACTAACCAGCAGCTTGAAC
 TGCATCTGGGAGGCGAGAGCTTTTGGGTGTCTATGATTTCTTATAATTCTCTTGGGAAGTCTCCAGTGGC
 CACCCTGAGGATTCAGCTATTCAGAAAAATCATTTCAGTGCATTGAGGTGATGCAGGCCTGCGTTGCT
 GAGGACCAGCTAGTGGTGAAGTGGCAAAGCTCTGCTCTAGACGTGAACACTTGGATGATTGAATGGTTTC
 CGGATGTGGACTCAGAGCCCACCCTTTCTGGGAATCTGTGTCTCAGGCCACGAATGGAGCGATCCCA
 GCAAGATAAATTAACCTTTCTGGTGCTATAACATCTCTGTGTATCCAATGTTGCATGACAAAGTTGGC
 GAGCCATATTCCATCCAGGCTTATGCCAAAGAAGGCGTCCATCAGAAGTCTGAGACCAAGGTGGAGA
 ACATTGGCGTGAAGACGGTCACGATCACATGGAAGAGATTCCCAAGAGTGAGAGAAAGGTATCATCTG
 CAACTACACCATCTTTTACCAAGCTGAAGGTGGAAAAGGATTCTCCAAGACAGTCAATCCAGCATCTTG
 CAGTACGGCCTGGAGTCCCTGAAACGAAAGACCTTTACATTGTTGAGGTGATGGCCAGCACCAGTGTG
 GGGGAACCAACGGGACCAGCATAAATTTCAAGACATTGTCATTGAGTGTCTTTGAGATTATCCTCATAAC
 TTCTCTGATTGGTGGAGGCTTTCTATTCTCATTATCCTGACAGTGGCATATGGTCTCAAAAAACCAAC
 AAATTGACTCATCTGTGTTGGCCACCCTTCCCAACCCTGCTGAAAGTAGTATAGCCACATGGCATGGAG
 ATGATTTCAAGGATAAGCTAAACCTGAAGGAGTCTGATGACTCTGTGAACACAGAAGACAGGATCTTAAA
 ACCATGTTCCACCCAGTGACAAGTTGGTGAATGACAAGTTGGTGGTGAACCTTTGGGAATGTTCTGCAA
 GAAATTTTACAGATGAAGCCAGAACGGGTGAGGAAAACAATTTAGGAGGGGAAAAGATGGGTATGTGA
 CCTGCCCTTCAGGCCTGATTGTCCCCTGGGAAAAGTTTTGAGGAGCTCCAGTTTACCTGAGATTCC
 GCCAGAAAAATCCAATACCTACGTTCCAGGATGCCAGAGGGGACCCGCCAGAAGCCAAAGAGCAGCTT
 CTCTTTTCTGGTCAAAGTTTAGTACCAGATCATCTGTGTGAGGAAGGAGCCCAATCCATATTTGAAAA
 ATTCAGTGACAGCCAGGGAATTTCTGTGTCTGAAAAACTTCCAGAGCACACCAAGGGAGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233115 representing NM_001242636
 Red=Cloning site Green=Tags(s)

MKLSPPQSCVNLGMMWTWALWMLPSLCKFSLAALPAKPENISCVYYRKNLTCTWSPGKETSQYQYTVKR
 TYAFGEKHDNCTTNSSTENRASCFFLPRITIPDNYTIEVEAENGDGVIKSHMTYWRLNIAKTEPPKI
 FRVKPVLGIKRMIQIEWIKPELAPVSSDLKYTLRFRTVNSTSWMEVNFANRDKDNQTYNLTGLQPFTEY
 VIALRCVAVKESKFWSDWSQEKMGMTSEEEAPCGLELWRVLKPAEADGRRPVRLWKKARGAPVLEKTLGYN
 IWYYPESNTNLTETMNTNQLELHLGGESFVWSMISYNSLGKSPVATLRIPAIQEKSFQCIQEVMAQACVA
 EDQLVVKWQSSALDVNTWMIWFDPVDSEPTTLSWESVSQATNWTIQQDKLKPFWCYNISVYPMLHDKVG
 EPYSIQAYAKEGVPSEGPETKVENIGVKTVTITWKEIPKSERKGIICNYTIFYQAEGGKGFSKTVNSSIL
 QYGLESLKRKTSYIVQVMASTSAGGTNGTSINFKTLFSVFEEIILITSLIGGGLLILIIITVAYGLKKN
 KLTHLCWPTVNPAPAESSIATWHGDDFDKDLNLKESDDSVNTEDRILKPCSTPSDKLVIDKLVVFNQVNLQ
 EIFTDEARTQENNLGGEKNGYVTCPPRPDCPLGKSFEELPVSPEIPPRKSQYLRSRMPGTRPEAKEQL
 LFSGQSLVPDHLCEEGAPNPYLKNSVTAREFLVSEKLEPHTKGEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001242636.1](#), [NP_001229565.1](#)

RefSeq Size: 2695 bp

RefSeq ORF: 2238 bp

Locus ID: 133396

UniProt ID: [Q8NI17](#)

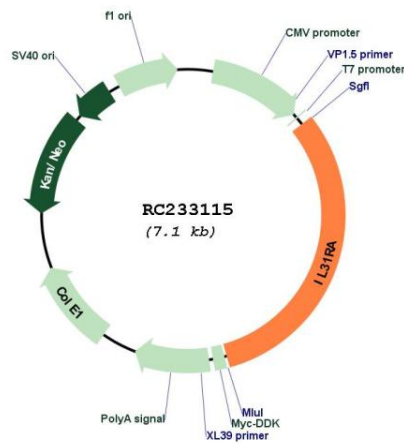
Cytogenetics: 5q11.2

Protein Families: Druggable Genome, Transmembrane

MW: 84.8 kDa

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]

Product images:



Circular map for RC233115