

## Product datasheet for **RC233060**

### **IL31RA (NM\_001242638) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IL31RA (NM_001242638) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL31RA
Synonyms:	CRL; CRL3; GLM-R; GLMR; GPL; hGLM-R; IL-31RA; PLCA2; PRO21384; zcytoR17
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC233060 representing NM\_001242638  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGCTCTCTCCCAGCCTTCATGTGTAACTGGGGATGATGTGGACCTGGGCACTGTGGATGCTCC  
 CCTCACTCTGCAAATTCAGCCTGGCAGCTCTGCCAGCTAAGCCTGAGAACATTTCTGTGTCTACTACTA  
 TAGGAAAAATTTAACCTGCACCTGGAGTCCAGGAAAGGAAACCAGTTATACCCAGTACACAGTTAAGAGA  
 ACTTACGCTTTTGGAGAAAAACATGATAATTGTACAACCAATAGTTCTACAAGTAAAAATCGTGCTTCGT  
 GCTCTTTTTCTTCCAAGAATAACGATCCAGATAATTATACCATTGAGGTGGAAGCTGAAAAATGGAGA  
 TGGTGTAAATTAATCTCATATGACATACTGGAGATTAGAGAACATAGCGAAAACTGAACCACCTAAGATT  
 TTCGCTGTAAACCAGTTTGGGCATCAAACGAATGATTCAAATTGAATGGATAAAGCCTGAGTTGGCGC  
 CTGTTTCATCTGATTTAAAATACACACTTCGATTCAAGACAGTCAACAGTACCAGCTGGATGGAAGTCAA  
 CTTTCGCTAAGAACCGTAAGGATAAAAACCAACGTACAACCTCACGGGGCTGCAGCCTTTTACAGAATAT  
 GTCATAGCTCTGCGATGTGCGGTCAAGGAGTCAAAGTTCTGGAGTGACTGGAGCCAAAGAAAAATGGGAA  
 TGACTGAGGAAGAAGCTCCATGTGGCCTGGAACCTGTGGAGAGTCCTGAAACCAGCTGAGGCGGATGGAAG  
 AAGGCCAGTGCAGTTGTTATGGAAGAAGGCAAGAGGAGCCCCAGTCTAGAGAAAACACTTGGCTACAAC  
 ATATGGTACTATCCAGAAAGCAACACTAACCTCACAGAAACAATGAACACTACTAACCAGCAGCTTGAAC  
 TGCATCTGGGAGGCGAGAGCTTTTGGGTGTCTATGATTTCTTATAATTCTCTTGGGAAGTCTCCAGTGGC  
 CACCCTGAGGATTCAGCTATTCAGAAAAATCATTTCAGTGCATTGAGGTGATGCAGGCCTGCGTTGCT  
 GAGGACCAGCTAGTGGTGAAGTGGCAAAGCTCTGCTCTAGACGTGAACACTTGGATGATTGAATGGTTTC  
 CGGATGTGGACTCAGAGCCACCACCTTTCTGGGAATCTGTGTCTCAGGCCACGAACTGGACGATCCA  
 GCAAGATAAATTAACCTTTCTGGTGTATAACATCTCTGTGTATCCAATGTTGCATGACAAAGTTGGC  
 GAGCCATATTCCATCCAGGCTTATGCCAAAGAAGGCGTTCATCAGAAGTCCTGAGACCAAGGTGGAGA  
 ACATTGGCGTGAAGACGGTCACGATCACATGGAAAGAGATTCCCAAGAGTGAGAGAAAGGTATCATCTG  
 CAACTACACCATCTTTTACCAAGCTGAAGGTGGAAAAGGATTCTCCAAGACAGTCAATTCAGCATCTTG  
 CAGTACGGCCTGGAGTCCCTGAAACGAAAGACCTTTACATTGTTTCAGGTGATGGCCAGCACCAGTGTG  
 GGGGAACCAACGGGACCAGCATAAATTTCAAGACATTGTCATTGATGCTTTGAGATTATCCTCATAAC  
 TTCTCTGATTGGTGGAGGCTTTCTATTCTCATTATCCTGACAGTGGCATATGGTCTCAAAAAACCAAC  
 AAATTGACTCATCTGTGTTGGCCACCCTTCCCAACCCTGCTGAAAGTAGTATAGCCACATGGCATGGAG  
 ATGATTTCAAGGATAAGCTAAACCTGAAGGAGTCTGATGACTCTGTGAACACAGAAGACAGGATCTTAAA  
 ACCATGTTCCACCCAGTGACAAGTTGGTGAATGACAAGTTGGTGGTGAACCTTTGGGAATGTTCTGCAA  
 GAAATTTTACAGATGAAGCCAGAACGGGTGAGAAAACAATTTAGGAGGGGAAAAGATGGGACTAGAA  
 TTCTGTCTTCTGCCCACTTCAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233060 representing NM\_001242638  
 Red=Cloning site Green=Tags(s)

MKLSPPQSCVNLGMMWTWALWMLPSLCKFSLAALPAKPENISCVYYRKNLTCTWSPGKETSYTQYTVKR  
 TYAFGEKHDNCTTNSSTENRASCFFLPRITIPDNYTIEVEAENG DGVIKSHMTYWRL ENIAKTEPPKI  
 FRVKPVLGIKRM IQIEWIKPELAPVSSDLKYTLRFRTVNSTSWMEVNF AKNRKDKNQTYNLTGLQPFTEY  
 VIALRCAVKESKFWSDWSQEKMGMT EEEAPCGLELWRVLKPAEADGRRPVRL L WKKARGAPVLEKTLGYN  
 IWYYPESNTNLTETMNTNQQLHLGGESFWVSMISYNSLGKSPVATLRIPAIQEKSFQCI EVMQACVA  
 EDQLVVKWQSSALDVNTWMI EWFPD VDSEPTT LSWESVSQATNWTIQDQKLPFWCYNISVY PMLHDKVG  
 EPYSIQAYAKEGVPSEGPETKVENIGVKTVTITWKEIPKSERKGIICNYTIFYQAEGGKGF SKTVNSSIL  
 QYGLLESLKRKTSYIVQVMASTSAGGTNGTSINFKTL SFSVF EII LITSLIGGGLL I L I I LTVAYGLK KPN  
 KLTHLCWPTV PNP AESSIATWHGDDFKDKLNLKESD DSVNTE DRILKPCSTP SDKLVIDKLVVNF GNVLQ  
 EIFTDEARTGQENNLGGEKNGTRILSSCPTSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

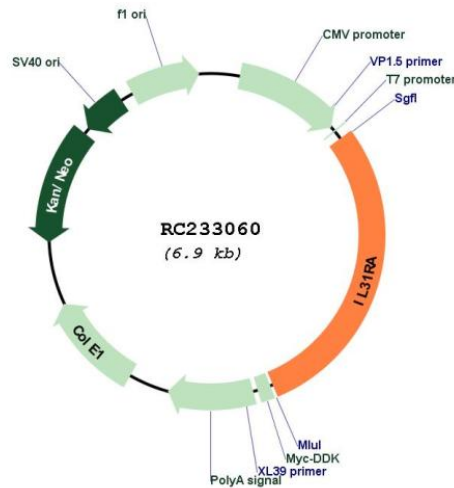
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001242638

**ORF Size:** 1986 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001242638.2](#)

**RefSeq Size:** 3036 bp

**RefSeq ORF:** 1989 bp

**Locus ID:** 133396

**UniProt ID:** [Q8NI17](#)

**Cytogenetics:** 5q11.2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 75.3 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]