

Product datasheet for **RG233073**

IL31RA (NM_001242637) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL31RA (NM_001242637) 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:**

>RG233073 representing NM_001242637
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTGCATCAGGCAACTCAAGTTTTTCACCACGGCATGTGTCTGTGAATGTCGCAAAACATTCTCTCTC
 CCCAGCCTTCATGTGTTAACCTGGGGATGATGTGGACCTGGGCACTGTGGATGCTCCCTCACTCTGCAA
 ATTCAGCCTGGCAGCTCTGCCAGCTAAGCCTGAGAACATTTCTGTGTCTACTACTATAGGAAAAATTTA
 ACCTGCACTTGGAGTCCAGGAAAGGAAACCAAGTTATACCCAGTACACAGTTAAGAGAAGTTACGCTTTTG
 GAGAAAAACATGATAATTGTACAACCAATAGTTCTACAAGTAAAATCGTGCTTCGTGCTCTTTTTCTCT
 TCCAAGAATAACGATCCAGATAATTATACCATGAGGTGGAAGCTGAAAATGGAGATGGTGAATTAATA
 TCTCATATGACATACTGGAGATTAGAGAACATAGCGAAAAGTGAACACCTAAGATTTCCGTGTGAAAC
 CAGTTTTGGGCATCAAACGAATGATTCAAATTGAATGGATAAAGCCTGAGTTGGCGCTGTTTCATCTGA
 TTTAAAAACACACTTCGATTGAGGACAGTCAACAGTACCAGCTGGATGGAAGTCAACTTCGCTAAGAAC
 CGTAAGGATAAAAACCAACGTAACCTCACGGGGCTGCAGCCTTTACAGAATATGTCATAGCTCTGC
 GATGTGCGGTCAAGGAGTCAAAGTTCTGGAGTGACTGGAGCCAAGAAAAAATGGGAATGACTGAGGAAGA
 AGCTCCATGTGGCCTGGAAGTGTGGAGAGTCTGAAACCAAGCTGAGGCGGATGGAAGAAGGCCAGTGCGG
 TTGTTATGGAAGAAGGCAAGAGGAGCCCAAGTCTAGAGAAAACACTTGGCTACAACATATGGTACTATC
 CAGAAAGCAACACTAACCTCACAGAAACATGAACACTACTAACCAGCAGCTTGAAGTGCATCTGGGAGG
 CGAGAGCTTTGGGTGTCTATGATTTCTTATAATTCTCTTGGGAAGTCTCCAGTGGCCACCCTGAGGATT
 CCAGCTATTCAAGAAAAATCATTTCAGTGCATTGAGGTGATGAGGCTGCGTTGCTGAGGACCAGCTAG
 TGGTGAAGTGGCAAAGCTCTGCTCTAGACGTGAACACTTGGATGATTGAATGGTTCCGGATGTGGACTC
 AGAGCCCACCAACCTTTCTGGGAATCTGTGTCTCAGGCCACGAAGTGGACGATCCAGCAAGATAAATTA
 AAACCTTTCTGGTGCTATAACATCTCTGTGTATCCAATGTTGCATGACAAAGTTGGCGAGCCATATTCCA
 TCCAGGCTTATGCCAAAGAAGGCGTTCCATCAGAAGGTCTGAGACCAAGGTGGAGAACATTGGCGTGAA
 GACGGTCACGATCACATGGAAAGAGATCCCAAGAGTGAGAGAAAGGTATCATCTGCAACTACACCATC
 TTTTACCAAGCTGAAGGTGGAAAGGATTCTCCAAGACAGTCAATTCCAGCATCTTGCACTACGGCCTGG
 AGTCCCTGAAACGAAAGACCTCTTACATTGTTGAGGTGATGGCCAGCAGCAGTGTGGGGGAACCAACGG
 GACCAGCATAAATTTCAAGACATTGTCTTTCAGTGTCTTTGAGATTATCCTCATAACTTCTCTGATTGGT
 GGAGGCCTTCTTATTCTCATTATCCTGACAGTGGCATATGGTCTCAAAAAACCAACAAATTGACTCATC
 TGTGTTGGCCACCGTTCCCAACCCTGCTGAAAGTAGTATAGCCACATGGCATGGAGATGATTTCAAGGA
 TAAGCTAAACCTGAAGGAGTCTGATGACTCTGTGAACACAGAAGACAGGATCTTAAACCATGTTCCACC
 CCCAGTGACAAGTTGGTGATTGACAAGTTGGTGGTGAAGTTTGGGAATGTTCTGCAAGAAATTTTACAG
 ATGAAGCCAGAACGGTCAGGAAAAAATTTAGGAGGGGAAAAGAATGGGACTAGAATTCTGTCTTCCTG
 CCCAACTTCAATA

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233073 representing NM_001242637
 Red=Cloning site Green=Tags(s)

MCIRQLKFFTTACVCECPQNILSPQSPCVNLGMMWTWALWMLPSLCKFSLAALPAKPENISCVYYRKNL
 TCTWSPGKETSQYTVKRTYAFGEKHDNCTTNSSTSENRASSFFLPRITIPDNYTIEVEAENGDVNIK
 SHMTYWRLNIAKTEPPKIFRVKPVLGKRMQIEWIKPELAPVSSDLKYTLRFRTVNSTSWMEVNAKN
 RKDNQTYNLTGLQPFTEYVIALRCAVKESKFWSDWSQEKMGMTSEEEAPCGLELWRVLKPAEADGRRPVR
 LLWKKARGAPVLEKTLGYNIWYYPESNTNLTETMNTNQQLELHGGESFWVSMISYNSLGKSPVATLRI
 PAIQEKSQFQIEVMQACVAEDQLVVKWQSSALDVNTWMIWFPDVSPTTSLWESVSQATNWTIQDKL
 KPFWCYNISVYPMHDKVGEPSYIQAAYAKEGVPSEGPETKVENIGVKTVTITWKEIPKSERKGIICNYTI
 FYQAEKGKFSKTVNSSILQYGLSLKRKTSYIVQVMASTAGGTNGTSINFKTLFSVFIEILITSLIG
 GLLILILITVAYGLKKNKLTHLCWPTVPNPAESSIATWHGDDFKDKLNLKESDDSVNTEDRILKPCST
 PSDKLVIDKLNVNFGNVLQEIFTDEARTGQENNLGGEKNGTRILSSCPTSI

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001242637

ORF Size: 2043 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_001242637.2](#)

RefSeq Size: 2672 bp

RefSeq ORF: 2046 bp

Locus ID: 133396

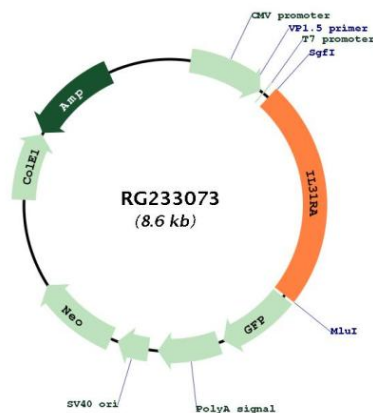
UniProt ID: [Q8NI17](#)

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]

Product images:



Circular map for RG233073