

## Product datasheet for **RG238978**

### IL31RA (NM\_001297570) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL31RA (NM_001297570) 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:**

>RG238978 representing NM\_001297570.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCATCAGGCAACTCAAGTTTTCCACCACGGCATGTGTCTGTGAATGTCGCGAAAACATTCTCTCT
CCCCAGCCTTCATGTGTTAACCTGGGGATGATGTGGACCTGGGCACTGTGGATGCTCCCCCTCACTCTGC
AAATTCAGCCTGGCAGCTCTGCCAGCTAAGCCTGAGAACATTTCCCTGTGTCTACTACTATAGGAAAAAT
TTAACCTGCACCTGGAGTCCAGGAAAGGAAACAGTTATACCCAGTACACAGTTAAGAGAACTTACGCT
TTTGGAGAAAAACATGATAATTGTACAACCAATAGTTCTACAAGTAAAAATCGTGCTTCGTGCTCTTTT
TTCCTTCCAAGAATAACGATCCCAGATAATTATACCATTGAGGTGGAAGCTGAAAATGGAGATGGTGTA
ATTAATCTCATATGACATACTGGAGATTAGAGAACATAGCGAAAACCTGAACCACCTAAGATTTCCGT
GTGAAACCAGTTTTGGGCATCAAACGAATGATTCAAATGAATGGATAAAGCCTGAGTTGGCGCCTGTT
TCATCTGATTTAAAATACACACTTCGATTCAGGACAGTCAACAGTACCAGCTGGATGGAAGTCAACTTC
GCTAAGAACCGTAAGGATAAAAAACCAACGTACAACCTCACGGGGCTGCAGCCTTTTACAGAATATGTC
ATAGCTCTGCGATGTGCCGTCAAGGAGTCAAAGTTCTGGAGTGACTGGAGCCAAGAAAAAATGGGAATG
ACTGAGGAAGAAGCTCCATGTGGCTGGAACCTGTGGAGAGTCTGAAACCAGCTGAGGCGGATGGAAGA
AGGCCAGTGCGGTTGTTATGGAAGAAGGCAAGAGGAGCCCGAGTCTAGAGAAAACACTTGGCTACAAC
ATATGGTACTATCCAGAAAGCAACACTAACCTCACAGAAACAATGAACACTACTAACCAGCAGCTTGAA
CTGCATCTGGGAGGCGAGAGCTTTTGGGTGTCTATGATTTCTTATAATTCTTTGGGAAGTCTCCAGTG
GCCACCTGAGGATTCAGCTATTCAAGAAAAATCATTTCAGTGCATTGAGGTGATGCAGGCCTGCGTT
GCTGAGGACCAGTAGTGGTGAAGTGGCAAAGCTCTGCTCTAGACGTGAACACTTGGATGATTGAATGG
TTTCCGGATGTGGACTCAGAGCCCACCCTTTCTGGGAATCTGTGTCTCAGGCCACGAACTGGACG
ATCCAGCAAGATAAATTAACCTTTCTGGTGCTATAACATCTCTGTGTATCCAATGTTGCATGACAAA
GTTGGCGAGCCATATCCATCCAGGCTTATGCCAAAGAAGGCGTTCATCAGAAGTCTGAGACCAAG
GTGGAGAACATTGGCGTGAAGACGGTCACGATCACATGGAAGAGATTCCCAAGAGTGAGAGAAAGGGT
ATCATCTGCAACTACCCATCTTTTACCAAGCTGAAGGTGGAAGGATTCTGTAAGCACGCCCATAGC
GAAGTGGAAAAAACCCCAAGCCCAGATAGATGCTATGGATAGACCTGTTGTAGGCATGGCTCCCCCA
TCTCATTGTGACTTGCAACCTGGCATGAATCACTTAGCTTCTTTAAATCTCTGAAAATGGGGCCAAG
AGCACCCACCTTTTGGGTTTTGGGGTTAAATGAGAGTGAAGTGACAGTACCTGAGAGGAGAGTCTCG
AGGAAATGGAAGGAGTTGTTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238978  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MCIRQLKFFTTACVCECPQNILSPQPSCVNLGMMWTWALWMLPSLCKFLAALPAKPENISCVYYYRKN
LTCTWSPGKETSQYTVKRTYAFGEKHDNCTTNSSTENRASCFFLPRIIPDNYTIEVEAENDGV
IKSHMTYWRENIKTEPPKIFRVKPVLGKRMQIEWIKPELAPVSSDLKYTLRFRTVNSTSWMEVNF
AKNRKDKNQTYNLTGLQPFTEYVIALRCVAKESKFWSWDSQEKMGMTTEEEAPCGLELWRVLPKPAEADGR
RPVRLWLKARGAPVLEKTLGYNIWYYPESNTNL TETMNTNQLELHLGGESFWVSMISYNSLGKSPV
ATLRIPAIQKSFQCIQEVMAQVAEDQLVVKWQSSALDVNTWMIWFDPDVEPTL SWESVSQATNWT
IQQDKLKPFWCYNISVYPMLHDKVGEYSIQAYAKEGVPSEGPETKVENIGVKVTITWKEIPKSERKG
IICNYTIFYQAEGGKGFCKHAHSEVEKNPKPQIDAMDRPVVGMAPP SHCDLQPGMNHASLNLSENGAK
STHLLGFWGLNESEVTPERRVLRKWKELL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001297570

**ORF Size:** 1746 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).

**RefSeq:** [NM\\_001297570.2](#)

**RefSeq Size:** 2423 bp

**RefSeq ORF:** 1749 bp

**Locus ID:** 133396

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

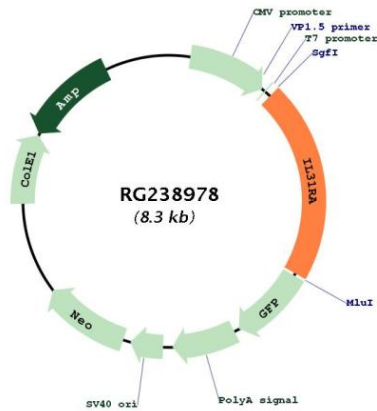
**Cytogenetics:** 5q11.2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 67.1 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 RG238978