

Product datasheet for **MC221042**

Il31ra (NM_139299) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il31ra (NM_139299) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Il31ra
Synonyms:	CRL3; GLM-R; Glmr; GPL; NR10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221042 representing NM_139299
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGACCTTGGCACTGTGGCATTCTTTCTCTGCAAATTCAGCCTGGCAGTCTGCCGACTAAGC
 CAGAGAACATTTCTGCGTCTTTTACTTCGACAGAAATCTGACTTGCACCTGGAGACCAGAGAAGGAAAC
 CAATGATACCAGCTACATTGTGACTTTGACTTACTCTATGAAAAAGCAATTATAGTGACAATGCTACA
 GAGGCTTCATATTTTCCCGTTCTGTGCAATGCCCCAGACATCTGCAGTGTGAAGTACAAGCTC
 AAAATGGAGATGGTAAAGTTAAATCTGACATCACATATTGGCATTAAATCTCCATAGCAAAAACCGAAC
 ACCTATAATTTTAAAGTGAATCCAATTTGAATAGAATGTTCCAGATACAATGGAACCGCGTGAAAAG
 ACTCGTGGGTTTCTTTAGTATGCATGCTTCGGTTCAGAACTGTCAACAGTAGCCACTGGACGGAAGTCA
 ATTTTAAAACTGTAACAGGTCTGCAACCTCACAGGACTTCAGGCTTTCACAGAATATGCTCTGGCTCT
 ACGATTCAGTTCATGACTCAAGATATTGGAGCAAGTGGAGCAAGAAGAAACCGAGTACTATGGAG
 GAAGTTCACATGCTCTGGACCTGTGGAGAATTCTGGAACCAGCAGACATGAACGGAGACAGGAAGGTGC
 GATTGTTGTGAAGAAGGCAAGAGGAGCCCCGTCTGGAGAAAACATTTGGCTACCACATACAGTACTT
 TGCAGAGAACAGCACTAACCTCACAGAGATAAACAAACATCACCCAGCAGTATGAACTGCTTCTGATG
 AGCCAGGCACACTCTGTGTCCGTGACTTCTTTAATTCTTTGGCAAGTCCCAAGAGGCCATCCTGAGGA
 TCCCAGATGTCCATGAGAAGACCTTCCAGTACATTAAGAGCATGAAGGCCACATAGCCGAGCCCCGT
 GGTGGTGAAGTGGCAAAGCTCCATTCTGCGGTGGACACTTGGATAGTGGAGTGGCTCCCAGAAGCTGCC
 ATGTCGAAGTTCCTGCCCTTCTGGGAATCTGTGTCTCAGTCAAGTGTGGACACTGGACACTCGAGCAAGATA
 AACTAAAACCTTTCACATGCTATAATATATCAGTGTATCCAGTGTGGACACCGAGTGGAGAGCCGTA
 TTCAATCCAAGCTTATGCCAAAGAAGGAACTCCATTAAGGTCTGAGACCAGGGTGGAGAACATCCGGT
 CTGAGGACAGCCACGATCACATGGAAGGAGATTCTAAGAGTGTAGGAATGGATTTATCAACAATTACA
 CTGATTTTACCAAGCTGAAGGTGGAAAAGAACTCTCAAGACTGTTAACTCTCATGCCCTGCAGTGTGA
 CCTGGAGTCTCTGACACGAAGGACCTTATACTGTTGGGTGATGGCCAGCACCAGAGCTGGAGGTACC
 AACGGGTGAGAATAAACTTCAAGACATTGTCAATCAGTGTGTTGAAATGTCTTCTAACATCTCTAG
 TTGGAGGAGGCCCTTCTTACTTAGCATCAAACAGTACTTTTGGCCTCAGAAAGCCAAACCGGTTGAC
 TCCCCTGTGTTGCTGATGTTCCCAACCTGCTGAAAGTAGTTAGCCACATGGCTCGGAGATGGTTTC
 AAGAAGTCAAATATGAAGGAGACTGAAACTCTGGGGACACAGAAGACGTGGTCTAAAACCATGTCCCG
 TCCCCGCGGATCTCATTGACAAGCTGGTAGTGAATTTGAGAATTTCTGGAAAGTATTTGACAGAGGA
 AGCTGGAAGGGTCAGGCGAGCATTGTTGGGAGGAGAAGCGAATGAGTATGTGACCTCCCCGTCTAGGCC
 GACGGTCCCCAGGAAAAGTTTTAAAGAGCCCTCCGTTTTAACTGAGGTTGCTTCTGAAGACTCCCACA
 GCACGTGTTCCAGAAATGGCGGACGAGGCGTACTCAGAAATGGCCAGGCAGCCTTCGTCTTCTGTGACAG
 TCCAGGGCTATCGCCTCCCCGTGAAGACCAAGCTCAGAAATCCATATTTGAAAAATTCAGTGAACACAGG
 GAATTTCTGTGCATGAGAATATCCCAGAGCACAGCAAAGGAGAAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2533_b03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_139299

Insert Size: 2151 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 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](#)

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_139299.2](#), [NP_647460.2](#)

RefSeq Size: 3680 bp

RefSeq ORF: 2151 bp

Locus ID: 218624

UniProt ID: [Q8K5B1](#)

Cytogenetics: 13 D2.2

Gene Summary: Associates with OSMR to form the interleukin-31 receptor which activates STAT3 and to a lower extent STAT1 and STAT5. May function in skin immunity (PubMed:15184896). Mediates IL31-induced itch, probably in a manner dependent on cation channels TRPA1 and TRPV1 (PubMed:24373353). Positively regulates numbers and cycling status of immature subsets of myeloid progenitor cells in bone marrow in vivo and enhances myeloid progenitor cell survival in vitro (PubMed:17379091).[UniProtKB/Swiss-Prot Function]