

Product datasheet for **MG207879**

Il31ra (BC066164) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il31ra (BC066164) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il31ra
Synonyms:	NR10, GLM-R, Glmr, CRL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207879 representing BC066164
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATCCTCTGGGTGTGAACGCTGGAATAATGTGGACCTGGCACTGTGGGCATTCTCTTTCTCTGCA
 AATTCAGCCTGGCAGTCCTGCCACTAAGCCAGAGAACATTTCTGCGTCTTTACTTCGACAGAAATCT
 GACTTGCACCTGGAGACCAGAGAAGGAAACCAATGATACCAGCTATATTGTGACTTTGACTTACTCTAT
 GGAAAAAGCAATTATAGTGACAATGCTACAGAGGCTTCATATTCTTTCCCGTTCCTGTGCAATGCCCC
 CAGACATCTGCAGTGTGAAGTACAAGCTCAAAATGGAGATGGTAAAGTTAAATCTGACATCACATATTG
 GCATTTAATCTCCATAGCAAAAACCGAACACCTATAATTTAAGTGTGAATCCAATTTGTAATAGAATG
 TTCAGATACAATGGAACCGCGTGAAAAGACTCGTGGGTTTCTTTAGTATGCATGCTTCGGTTCAGAA
 CTGTCAACAGTAGCCACTGGACGGAAGTCAATTTTAAAAGTGTAAACAGGCTGCAACCTCACAGGACT
 TCAGGCTTTCACAGAATATGTCCTGGCTCTACGGTTCAGGTTCAATGACTCAAGATATTGGAGCAAGTGG
 AGCAAAGAAGAAACCAGAGTGACTATGGAGGAAGTCCACATGTCTGGACCTGTGGAGAATTCTGGAAC
 CAGCAGACATGAACGGAGACAGGAAGGTGCGATTGTTGTGGAAGAAGGCAAGAGGAGCCCCGCTTGGGA
 GAAAACATTTGGCTACCACATACAGTACTTTGCAGAGAACAGCACTAACCTCACAGAGATAAACAACATC
 ACCACCCAGCAGTATGAAGTCTTGTGATGAGCCAGGCACACTCTGTGTCGGTACTTCTTTAATTCTC
 TTGGCAAGTCCCAAGAGGCCATCCTGAGGATCCAGATGTCCATGAGAAGACCTCCAGTACATTAAGAG
 CATGAAGGCCTACATAGCCGAGCCCTGTTGGTGGTGAAGTGGCAAGCTCCATTCTGCGGTGGACACT
 TGGATAGTGGAGTGGCTCCAGAAGTGCATGTCAAGTTCCTGCCCTTCTGGGAATCTGTGTCTC
 AGGTCACGAAGTGGACATCGAGCAAGATAAACTAAAACCTTTCACATGCTATAATATATCAGTGTATCC
 AGTGTGGGACACCGAGTTGGAGAGCCGTATTCATCAATCCAAGCTTATGCCAAAGAAGGAAGTCCATTA
 GGTCTGAGACAGGGTGGAGAATCGGTCTGAGGACAGCCACGATCACATGGAAGGAGATTCTTAAGA
 GTGCTAGGAATGGATTTATCAACAATTACTGTATTTTACCAAGCTGAAGGTGGAAAAGAACTCTCCAA
 GACTGTAACTCTCACTACCCCAAGTTTATTACGCATTGACTGTGCTAAATCAAGAACTCCAGAAAC
 CTCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207879 representing BC066164
 Red=Cloning site Green=Tags(s)

MNPLGVNAGIMWTLALWAFSFLCKFSLAVLPTKPENISCVFYFDRNLCTWRPEKETNDTSYIVTLTYSY
 GKSNDYSDNATEASYSFPRSCAMPPDICSVEVQAQNGDGKVKSDITYWHLISIAKTEPPIILSVNPICNRM
 FQIQWKPREKTRGFPLVCLRFRTVNSSHWEVNFENCKQVCNL TGLQAFTEYVLALRFRFNDSTRYWSKW
 SKEETRVTMEEVPHVLDLWRILEPADMNGDRKVRLLWKKARGAPVLEKTFGYHIQYFAENSTNLTEINNI
 TTQYELLMSQAHSVSVTSFNLSGKSQEAAILRIPDVHEKTFQYIKSMKAYIAEPLLVVNWQSSIPAVDT
 WIVEWLPEAAMSKFPALSWESVSQVTNWTIEQDKLPFTCYNISVYPVLGHRVGEPIYQYAKEGTPLK
 GPETRVENIGLRTATITWKEIPKSARNGFINNYTVFYQAEQKELSKTVNSHSPQVYYALTAAKSRNSRN
 LQ

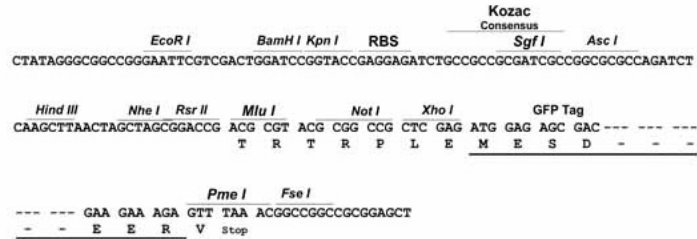
TRTRPLE – GFP Tag – V

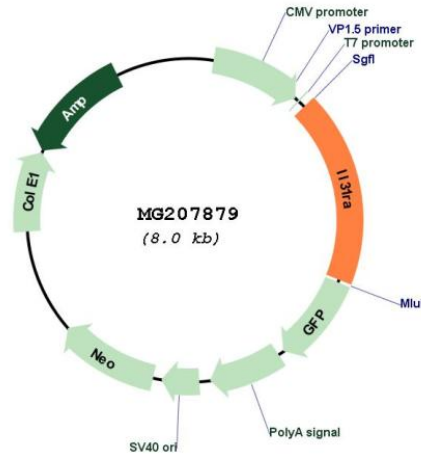
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: BC066164

ORF Size: 1478 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: [BC066164](#), [AAH66164](#)

RefSeq Size: 2020 bp

RefSeq ORF: 1478 bp

Locus ID: 218624

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]