

Product datasheet for **MC211728**

II31 (NM_029594) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: II31 (NM_029594) Mouse Untagged Clone
Tag: Tag Free
Symbol: II31
Synonyms: 1700013B14Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC211728 representing NM_029594
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCTTCCACACAGGAACAACGAAGCCTACCCTGGTGTGCTTTGCTGTATAGGAACCTGGCTGGCCA
CCTGCAGCTTGTCTTCGGTGCCCAATATCGAAGGAAGACTTAAGAACTACAATTGACCTTTGAAACA
AGAGTCTCAGGATCTTTATAACAACTATAGCATAAAGCAGGCATCTGGGATGTCAGCAGACGAATCAATA
CAGCTGCCGTGTTTCAGCCTGGACCGGGAAGCATTAAACCAACATCTCGGTATCATAGCACATCTGGAGA
AAGTCAAAGTGTGAGCGAGAACACAGTAGATACTTCTTGGGTGATAAGATGGCTAACAAACATCAGCTG
TTTCAACCCACTGAATTTAAACATTTCTGTGCCTGGAAATACTGATGAATCCTATGATTGTAAGTGTTC
GTGCTTACGGTTTTAAAGCAGTTCTCAAACATGCGCAGAACTGCAGGCTAAGGACAATACTACATGCT
GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_029594
Insert Size: 492 bp



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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_029594.1](#), [NP_083870.1](#)

RefSeq Size: 810 bp

RefSeq ORF: 492 bp

Locus ID: 76399

UniProt ID: [Q6EAL8](#)

Cytogenetics: 5 F

Gene Summary: Activates STAT3 and possibly STAT1 and STAT5 through the IL31 heterodimeric receptor composed of IL31RA and OSMR (PubMed:15184896). May function in skin immunity (PubMed:15184896). Enhances myeloid progenitor cell survival in vitro (PubMed:17379091). Induces RETNLA and serum amyloid A protein expression in macrophages (PubMed:25847241).[UniProtKB/Swiss-Prot Function]