

Product datasheet for **SC337139**

IL12RB1 (NM_001290023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB1 (NM_001290023) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL12RB1
Synonyms:	CD212; IL-12R-BETA1; IL12RB; IMD30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

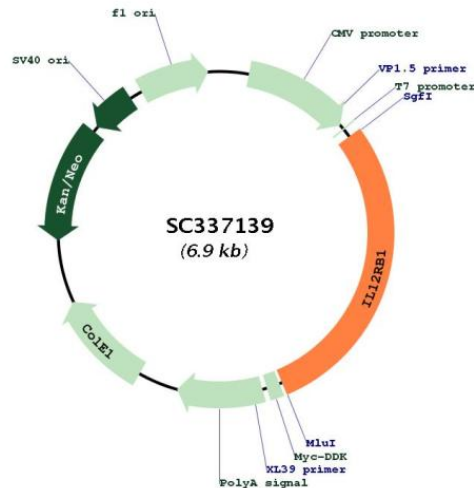


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Fully Sequenced ORF: >SC337139 representing NM_001290023.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGCCGCTGGTGACCTGGGTGGTCCCCTCCTCTTCTCTGCTGTCCAGGCAGGGCGCTGCC
TGCAGAACCCAGTGAGTGCTGTTTTTCAGGACCCGCCATATCCGGATGCAGACTCAGGCTCGGCCTCGGGC
CCTAGGGACCTGAGATGCTATCGGATATCCAGTGATCGTTACGAGTGCTCCTGGCAGTATGAGGGTCCC
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CACCTGTGCCCGCGCTGCCACACCCTGTGCCAGCTCCGCCATTGAGTTCCTGGAGGGAAGGAGACT
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GCCCTGGATACAGAGTTGCTTGGAGGATGGAGACAGATGTGATCGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001290023

Insert Size: 1983 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001290023.1](#)

RefSeq Size: 2787 bp

RefSeq ORF: 1983 bp

Locus ID: 3594

UniProt ID: [P42701](#)

Cytogenetics: 19p13.11

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

MW: 72.9 kDa

Gene Summary: The protein encoded by this gene is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. This protein binds to interleukine 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. This protein forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this and IL12RB2 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. Mutations in this gene impair the development of interleukin-17-producing T lymphocytes and result in increased susceptibility to mycobacterial and Salmonella infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (3) represents the use of an alternate promoter and has multiple differences compared to variant 4, one of which results in a translational frameshift. These differences result in distinct 5' and 3' UTRs and the use of a downstream start codon, causing the encoded isoform (3, also known as Short) to contain a shorter N-terminus and a distinct C-terminus compared to isoform 4. Sequence Note: The 5' UTR was inferred from partial sequence data.