

Product datasheet for SC123857

IL12RB1 (NM_153701) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB1 (NM_153701) 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)
Fully Sequenced ORF:	>SC123857 representing NM_153701. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCCGCTGGTGACCTGGTGGTCCCCCTCTTCTCTTCTGCTGTCCAGGCAGGGCGCTGCC
TGCAGAACCAGTGAGTGTGTTTTCAGGACCCGCCATATCCGGATGCAGACTCAGGCTCGGCCTCGGGC
CCTAGGGACCTGAGATGCTATCCGATATCCAGTGATCGTTACGAGTGTCTCTGCCAGTATGAGGGTCCC
ACAGCTGGGGTACGCCACTTCTGCGGTGTTGCCTTAGCTCCGGGCGCTGCTGCTACTTCGCCGCCGGC
TCAGCCACCAGGCTGCAGTTCTCCGACCAGGCTGGGGTGTCTGTGCTGTACTGTACACTGTACACTCTGGGTG
GAATCCTGGGCCAGGAACCAGACAGAGAAGTCTCCTGAGGTGACCCTGCAGCTCTACAACCTCAGTTAAA
TATGAGCCTCCTCTGGGAGACATCAAGGTGTCCAAGTTGGCCGGCAGCTGCGTATGGAGTGGGAGACC
CCGGATAACCAGTTGGTGTGAGGTGCAGTTCGGCACCCGGACACCCAGCAGCCATGGAAGTTGGGC
GACTGCGGACCTCAGGATGATGATACTGAGTCTGCTCTGCCCTGGAGATGAATGTGGCCAGGAA
TTCCAGCTCCGACGACGGCAGCTGGGGAGCCAAGGAAGTTCTGGAGCAAGTGGAGCAGCCCGTGTGC
GTTCCCCCTGAAAACCCCCACAGCCTCAGGTGAGATTCTCGGTGGAGCAGCTGGGCCAGGATGGGAGG
AGGCGGCTGACCCTGAAAGAGCAGCCAACCCAGCTGGAGCTTCCAGAAGGCTGTCAAGGGCTGGCGCCT
GGCAGGGAGGTCACCTACCGACTACAGCTCCACATGCTGTCTGCCGTGTAAGGCCAAGGCCACCAGG
ACCTGCACCTGGGGAAGATGCCCTATCTCGGGTGTGCTACAACGTGGCTGTCATCTCCTCGAAC
CAATTTGGTCTGGCCTGAACCAGACGTGGCACATTCTGCCGACACCCACAGATGGCATGATCTCA
GCTCACTGCAACCTCCGCCTCCAGATTCAAGAGATTCTCCTGCTTACGCTCCCGAGTGTGGGATT
ACAGGCATCTGCCACCATACCCGGCTAATTTTGTATTTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

ACCN:	NM_153701
Insert Size:	1146 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_153701.2
RefSeq Size:	1997 bp
RefSeq ORF:	1146 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:	42.4 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 (2) represents the use of an alternate promoter, differs in the 5' UTR and has a different 3' structure which results in a translational frameshift and an early stop codon compared to variant 4. The encoded isoform (2) has a shorter N-terminus and a distinct C-terminus compared to isoform 4. Sequence Note: The 5' UTR was inferred from partial sequence data.