

Product datasheet for **SC303661**

IL12RB1 (NM_005535) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB1 (NM_005535) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL12RB1
Synonyms:	CD212; IL-12R-BETA1; IL12RB; IMD30
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_005535 edited
 ACCTCGCAGGTGGCAGAGAGGCTCCCCTGGGGCTGTGGGGCTCTACGTGGATCTGATGGA
 GCCGCTGGTGACCTGGGTGGTCCCCCTCTTCTTCTTCTTCTGCTGTCCAGGCAGGGCGC
 TGCCTGCAGAACCAGTGAGTGTGTTTTTCAGGACCCGCCATATCCGGATGCAGACTCAGG
 CTCGGCCTCGGGCCCTAGGGACCTGAGATGCTATCGGATATCCAGTGATCGTTACGAGTG
 CTCTGGCAGTATGAGGGTCCCACAGCTGGGGTCAAGCCACTTCTGCGGTGTTGCCTTAG
 CTCGGGGCGTGTGCTACTTTCGCGCGGGCTCAGCCACCAGGCTGCAGTTCTCCGACCA
 GGCTGGGGTGTCTGTGCTGTACACTGTCACTCTGGGTGGAATCCTGGGCCAGGAACCA
 GACAGAGAAGTCTCTGAGGTACCCCTGCAGCTTACAACCTAGTTAAATATGAGCCTCC
 TCTGGGAGACATCAAGGTGTCCAAGTTGGCCGGCAGCTGCGTATGGAGTGGGAGACCCC
 GGATAACCAGGTTGGTGTGAGGTGCAGTTCGGCACCGGACACCAGCAGCCCATGGAA
 GTTGGGCGACTGCGGACCTCAGGATGATGATACTGAGTCTGCCTCTGCCCTGGAGAT
 GAATGTGGCCAGGAATCCAGCTCCGACGACGGCGGTGGGGAGCCAAGGAAGTTCCTG
 GAGCAAGTGGAGCAGCCCTGTGTGCGTTCCCCCTGAAAACCCCCACAGCCTCAGGTGAG
 ATTCTCGTGGAGCAGCTGGGCCAGGATGGGAGGAGCGGCTGACCTGAAAGAGCAGCC
 AACCCAGCTGGAGCTTCCAGAAGGCTGTCAAGGGCTGGCCCTGGCACGGAGGTCACCTA
 CCGACTACAGCTCCACATGCTGTCTGCCCCTGTAAGGCCAAGGCCACCAGGACCCCTGCA
 CCTGGGGAAGATGCCCTATCTCTCGGGTGTGCCTACAACGTGGTGTCTCTCTCGAA
 CCAATTTGGTCTGGCCTGAACCAGACGTGGCACATTCCTGCCGACCCACACAGAACC
 AGTGGCTCTGAATATCAGCGTCGGAACCAACGGGACCACCATGTATTGGCCAGCCCGGGC
 TCAGAGCATGACGATTTGCATTGAATGGCAGCCTGTGGCCAGGACGGGGCCTTGCCAC
 TGCAGCCTGACTGCGCCGAAGACCCGGATCCGGCTGGAATGGCAACCTACAGCTGGAG
 TCGAGAGTCTGGGGCAATGGGGCAGGAAAAGTGTACTACATACCATCTTTGCCTTGC
 GCACCCCGAGAAGCTCACCTTGTGGTCTACGGTCTGTCCACCTACCACTTTGGGGCAA
 TGCTCAGCAGCTGGGACACCGCACCTCTCGGTGAAGAATCATAGCTTGGACTCTGT
 GTCTGTGGACTGGGACCATCCCTGCTGAGCACCTGTCCCGCGTCTAAAGGAGTATGT
 TGTCCGCTGCCGAGATGAAGACAGCAAACAGGTGTGAGAGCATCCCGTGCAGCCACAGA
 GACCCAAGTTACCCTCAGTGGCCTGCGGGCTGGTGTAGCCTACACGGTGCAGGTGCGAGC
 AGACACAGCGTGGCTGAGGGGTGTCTGGAGCCAGCCCCAGCGCTTACGATCGAAGTGA
 GGTTCGATTGGCTCATCTTCTTGCCTCCCTGGGAGCTTCTGAGCATCCTTCTCGT
 GGGCGTCTTGGTACCTTGGCCTGAACAGGGCCGACCGCACCTGTGCCCGCCGCTGCC
 CACACCCTGTGCCAGCTCCGCCATTGAGTTCCTGGAGGGAAGGAGACTTGGCAGTGGAT
 CAACCCAGTGGACTTCCAGGAAGAGGCATCCCTGCAGGAGGCCCTGGTGGTAGAGATGTC
 CTGGGACAAAGGCGAGAGGACTGAGCCTCTCGAGAAGACAGAGCTACCTGAGGGTGGCC
 TGAGCTGGCCCTGGATACAGAGTTGTCTTGGAGGATGGAGACAGGTGCAAGGCCAAGAT
 GTGATCGTTGAGGCTC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005535 unedited
 GTTCACCATTTGTATACGACTCATATAGCGCGCCGCGNATTCAGATCTGGTACCGAGCTC
 GGATCCACTAGTAACGGCCGCCATGTGCTGGAATTCGCCCTTACCTCGCAGGTGGCAGAG
 AGGCTCCCCTGGGGCTGTGGGGCTACGTGGATCTGATGGAGCCGCTGGTGACCTGGGT
 GGTCCCCCTCTTCTTCTTCTGCTGTCCAGGCAGGGCGCTGCCTGCAGAACCAGTGA
 GTGCTGTTTTTCAGGACCCGCCATATCCGGATGCAGACTCAGGCTCGCCCTCGGGCCCTAG
 GGACCTGAGATGCTATCCGATATCCAGTGATCGTTACGAGTGTCTTGGCAGTATGAGGG
 TCCCACAGCTGGGGTCAAGCCACTTCTGCGGTGTTGCCTTAGCTCCGGGCGCTGCTGCTA
 CTTGCGCCCGGGCTCAGCCACCAGGCTGCAGTTCTCCGACAGGCTGGGGTGTCTGTGCT
 GTACACTGTCACTCTGGTGGAAATCCTGGGCCAGGAACCAGACAGAGAAGTCTCTGGA
 GGTCAACCTGCAGCTTACAACCTAGTTAAATATGAGCCTCTCTGGGAGACATCAAGGT
 GTCCAAGTTGGCCGGCAGCTGCGTATGGAGTGGGAGACCCCGGATAACCAGGTTGGTGC
 TNGAGTGCAGTTCGGCACCGGACACCAGCAGCCATGGAAGTTGGGCGACTGCGGACC
 TCANGATGATGATACTGAGTCTGCCTTCCCCCTGGAGATGAATGTGGCCCAAGAAT
 TCCAGCTCCGACGACGGCGGTGGGGAGCCAAGGAAGTCTGGAGCAA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005535 unedited CATTGGNGATGGCAACTCCCAGNCCAGNAAAGCACTGGGNGAGGGTCACAGGGATGCC ACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGATGCATGCTCGAG CGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGAGCCTCAACGATCACATCTT GGCCTTGACCTGTCTCCATCCTCCAAGGACAACCTGTATCCAGGGCCAGCTCAGGGGC ACCCTCAGGTAGCTCTGTCTTCTCGAGAGGCTCAGTCTCTCGCCTTTGTCCCAGGACAT CTCTACCACAGGGCCTCTGCAGGGATGCCTCTTCTGGAAGTCCACTGGGTTGATCCA CTGCCAAGTCTCCTTCCCTCCAGGGAACCTCAATGGCGGAGCTGGCACAGGGTGTGGGCAG CGGCGGGCACAGGTGCCGTGCGGCCCTGTTTCAGGCCAAGGTAGCCAAGGACGCCACGAG AAGGATGCTCAGGAAGCTCCCCAGGGAGGCGAAGAAGATGAGCCAATCAGAAACCTGCAC TTCGATGCTGAAGCGCTGGGGCTGGCTCCAGACACCCCTCAGCCACGCTGTGTCTGCTCG CACCTGCACCGTGTAGGCTACACCAGCCCCGACGCACTGAGGGTAACTTNGTCTCTGT GGGCTGCACGGGATGCTCTGACACCTGTTGCTGTCTTCATCTCGGCAGCGGACAACATA CTCCTTATAGACCGCGGACAGGTGCTCAACAGGGATGGTGCCCCAGTCCACAGACACAG AGTCCAAGCTATGATTCCTTACCGAGACGTGGTGCGGTGTCCCAGCTGCTGAGGCATTT GCCCCAAAGTGAAGTGAACCGGACC
Restriction Sites:	Please inquire
ACCN:	NM_005535
Insert Size:	2100 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).
OTI Annotation:	There are 4 nucleotide differences between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 amino acid.
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_005535.1 , NP_005526.1
RefSeq Size:	2100 bp
RefSeq ORF:	1989 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

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 (1) represents the use of an alternate promoter, differs in the 5' UTR and uses a downstream start codon compared to variant 4. The encoded isoform (1, also known as Long) has a shorter N-terminus compared to isoform 4. Sequence Note: The 5' UTR was inferred from partial sequence data.