

Product datasheet for **SC119132**

IL12RB2 (NM_001559) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB2 (NM_001559) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL12RB2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_001559 edited
ATGGCACATACTTTTAGAGGATGCTCATTGGCATTATGTTTATAATCACGTGGCTGTTG
ATTAAAGCAAAAATAGATGCGTGCAAGAGAGGCGATGTGACTGTGAAGCCTTCCCATGTA
ATTTTACTTGGATCCACTGTCAATATTACATGCTCTTTGAAGCCCAGACAAGGCTGCTTT
CACTATTCCAGACGTAACAAGTTAATCCTGTACAAGTTTGACAGAAGAATCAATTTTCAC
CATGGCCACTCCCTCAATTCTCAAGTACAGGTCTTCCCCTTGGTACAACCTTGTTTGTC
TGCAAACCTGGCCTGTATCAATAGTGTGATGAAATTCAAATATGTGGAGCAGAGATCTTCGTT
GGTGTGCTCCAGAACAGCCTCAAAATTTATCCTGCATACAGAAGGGAGAACAGGGGACT
GTGGCCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAG
CTAAGTGGACAAAAAATTTAACCTGGCAGAAGCAATGTAAGACATTTATTGTGACTAT
TTGGACTTTGGAATCAACCTCACCCCTGAATCACCTGAATCCAATTTACAGCCAAGGTT
ACTGCTGTCAATAGTCTTGAAGCTCCTCTTCACTTCCATCCACATTACATTCTTGGAC
ATAGTGAGGCCTTCTCCGTGGGACATTAGAATCAAATTTCAAAGGCTTCCGTGAGC
AGATGTACCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACTCAGATATCGG
CCCAGTAACAGCAGGCTCTGGAATATGGTTAATGTTACAAGGCCAAAGGAAGACATGAT
TTGCTGGATCTGAAACATTTACAGAATATGAATTTAGATTTCTCTAAGCTACATCTT
TATAAGGGAAGTTGGAGTGATTGGAGTGAATCATTGAGAGCACAACACCAGAAGAAGAG
CCTACTGGGATGTTAGATGTCTGGTACATGAAACGGCACATTGACTACAGTAGACAACAG
ATTTCTCTTTTCTGGAAGAATCTGAGTGTCTCAGAGGCAAGAGGAAAAATTTCCACTAT
CAGGTGACCTTGCAGGAGCTGACAGGAGGGAAAGCCATGACACAGAACATCACAGGACAC
ACCTCTGGACCACAGTCATTCTAGAACCGGAAATGGGCTGTGGCTGTGTCTGCAGCA
AATTCAAAGGCAGTTCTCTGCCACTCGTATTAACATAATGAACCTGTGTGAGGCAGGG
TTGCTGGCTCCTCGCCAGGTCTCTGCAAACCTCAGAGGGCATGGACAACATTCTGGTGAT
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CTCCATCCAGGGGTGACACACAGGTCCCTCTAAACTGGCTACGGAGTCGACCCTACAAT
GTGTCTGCTCTGATTTACAGAGAACATAAAATCCTACATCTGTTATGAAATCCGTGTGAT
GCACTCTCAGGGGATCAAGGAGGATGCAGCTCCATCCTGGGTAACCTAAGCACAAAGCA
CCACTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAAGGGGAGCATTTTAATTTCA
TGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCATTATAGGATATACTGG
AAGGAACGGGACTCCAACCTCCAGCCTCAGCTCTGTGAAATTCCTACAGAGTCTCCCAA
AATTCACATCCAATAAACAGCCTGCAGCCCCGAGTGACATATGCTCCTGTGGATGACAGCT
CTGACAGCTGCTGGTGAAGTTCCACGGAAATGAGAGGGAATTTGTCTGCAAGGTAAA
GCCAATGGATGGCGTTTGTGGACCAAGCATTTCATTGCTATCATCATGGTGGGCATT
TTCTCAACACATTACTTCCAGCAAAAAGGTGTTTGTCTCCTAGCAGCCCTCAGACCTCAG
TGGTGTAGCAGAGAAATCCAGATCCAGCAAAATAGCACTTGCCTAAGAAATATCCCATT
GCAGAGGAGAAGACACAGCTGCCCTTGGACAGGCTCCTGATAGACTGGCCACGCCTGAA
GATCCTGAACCGCTGGTCATCAGTGAAGTCCTTCATCAAGTGACCCCAAGTTTTCAGACAT
CCCCCTGCTCCAACCTGGCCACAAGGGAAAAAGGAATCCAAGGTCATCAGGCCTCTGAG
AAAGACATGATGCACAGTGCCTCAAGCCACCACCTCCAAGAGCTCTCCAAGCTGAGAGC
AGACAACCTGGTGGATCTGTACAAGGTGCTGGAGAGCAGGGGCTCCGACCCAAAGCCAGAA
AACCCAGCCTGTCCCTGGACGGTCTCCAGCAGGTGACCTTCCACCCATGATGGCTAC
TTACCCTCCAACATAGATGACCTCCCCTCACATGAGGCACCTCTCGTACTCTCTGGAA
GAACTGGAGCCTCAGCACATCTCCCTTTCTGTTTTCCCCTCAAGTTCTCTTACCCACTC
ACCTTCTCTGTGGTGATAAGCTGACTCTGGATCAGTTAAAGATGAGGTGTGACTCCCTC
ATGCTCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001559 unedited GGTTCACATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGGCGGAGAGC GCGACACGTGCGGCCAGAACACCGGGGCCACCCGGTCCCGCAGGCCCGGGACCGCGCC CGCTGGCAGGCGACACGTGGTCACGGTGATCCATTTGTAAAGTCGGGAATAAATGACCTC TGAAGTGTGTCTGTATATTGATCTGCTACCAGTAAAACATATCTCTGAAGAATACGGAG TTCTATAACCAGAGTTGATTGCTGATGGCACATACTTTAGAGGATGCTCATTGGCATTTA TGTTTATAATCACGTGGCTGTTGATTAAGCAAAAATAGATGCGTGCAAGAGAGGGCGATG TGACTGTGAAGCCTTCCCATGTAATTTTACTTGGATCCACTGTCAATATTACATGCTCTT TGAAGCCAGACAAGGCTGCTTTCACTATTCCAGACGTAACAAGTTAATCCTGTACAAGT TTGACAGAAGAATCAATTTTCACCATGGCCACTCCCTCAATTCTCAAGTCACAGGTCTTC CCCTTGGTACAACCTTGTGTGCTGCAAACTCTGCCTGTATCAATAGTGATGAAATTCAA ATATGTGGAGCAGAGATCTTCGTTGGTGTGCTCCAGAACAGCCTCAAAATTTATCTGC ATACAGAAAGGAGAACAGGGGACTGTGGCTGCACCTGGGAAAGAGGACGAGACACCCAC TTATACACTGAGTATACTCTACAGCTAAGTGGACCAAAAAATTTAACCTGGCAGAAGCAA TGTAAGACATTTATTGTGACTATTTGGACTTTGGAATCAACCTCANCCCTGAATCACCT GAAATCCATTTACAGCCCAAGTACTGCTACTCATAGTCTTGAAGCTCCTCTTACT TCCTTCACATTACATTCTTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001559 unedited TAGCTTTGGACCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT GAGACAGAGTCTTGTCTGTTGCCAGGCTGGAGTGCAGTGGCTCACTGCAAGCCCCACC TCCCAGGTTTCATGTCATTCTCCTCCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCC GCCATCACGCCAGTTAATTTTTTTTTAAAAATATTTTTAGTAGAGATGGGGTTTCACCAT GTTAGCCAGAATGGTCTCGATCTCCTGACCTCATGATCCGCTGCCTCAGCCTCCCAAAG TGCTGGGATTACAGGCATGAGCTACCACGCCCGGCCAGAAAAAGGTACATTCTTAGACTT CTGCAAAATGAGACCAGTCATGACCACCTTGGGGGCCCTTTTACATTGGTGTTTACCAGGG TCTTTTATGTCTTCATCTATAGAAGTGGTGTGTTTGAAGGCTCTCAATAATCTA GGAGCCATCTAGAGCTGTGCACTCCAATACAGTAGCCACTAGCCATGTGTGGCGATTTAA ATTTACAATCAAAATTTAATTCCTCAGTCAAGCTAAACACATTTCAAGTGATTAACAGCC AATGTGCCTAGTGTCTAATGTACTGGACAGTGAAGTGCAGAGGTAGAACATTTCCATC TCAGGAAGTTCTGTTGAACAGTACTGATCTGCTGTGTACAGCCTGCTGTGTACCAGGTGC TTTAGAAATATCATTGCATGAATGCCCTTAGACTGTATGCCATTACTACTAAGAGCTGC GGCTTCTACCTCTCCTCAATTCCTTTCTGCCAGCTACCCAGAAAGTACCTAGGATT CAGCTGGAGTCTTTAGTCCCCAGTGAAGAGTAATTTAAGCCCTGGGAAGCAAATGAGCA CTGAGGAAACCACTCCAGTCTAACTCCCAAGCTGTTGCCGGCTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001559
Insert Size:	3900 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001559.2](#), [NP_001550.1](#)

RefSeq Size: 4040 bp

RefSeq ORF: 2589 bp

Locus ID: 3595

UniProt ID: [Q99665](#)

Cytogenetics: 1p31.3

Domains: FN3

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 identified as a subunit of the interleukin 12 receptor complex. The coexpression of this and IL12RB1 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. The expression of this gene is up-regulated by interferon gamma in Th1 cells, and plays a role in Th1 cell differentiation. The up-regulation of this gene is found to be associated with a number of infectious diseases, such as Crohn's disease and leprosy, which is thought to contribute to the inflammatory response and host defense. Several transcript variants encoding different isoforms and non-protein coding transcripts have been found for this gene. [provided by RefSeq, Apr 2012]

Transcript Variant: This variant (1) encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.