

Product datasheet for **SC124116**

IL12B (NM_002187) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12B (NM_002187) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL12B
Synonyms:	CLMF; CLMF2; IL-12B; IMD28; IMD29; NKSF; NKSF2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124116 sequence for NM_002187 edited (data generated by NextGen Sequencing)

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ATGTGTCACCAGCAGTTGGTCATCTCTTGGTTTTCCCTGGTTTTTCTGGCATCTCCCTC
GTGGCCATATGGAACTGAAGAAAGATGTTTATGTCGTAGAATTGGATTGGTATCCGGAT
GCCCTGGAGAAATGGTGGTCCTCACCTGTGACCCCTGAAGAAGATGGTATCACCTGG
ACCTTGGACCAGAGCAGTGAGGTCTTAGGCTCTGGCAAAACCCTGACCATCCAAGTCAA
GAGTTTGGAGATGCTGGCCAGTACACCTGTACAAAGGAGGCGAGGTTCTAAGCCATTG
CTCCTGCTGCTTCAAAAAAGGAAGATGGAATTTGGTCCACTGATATTTAAAGGACCAG
AAAGAACCMAAAATAAGACCTTTCTAAGATGCGAGGCCAAGAATTATTCTGGACGTTTC
ACCTGCTGGTGGCTGACGACAATCAGTACTGATTTGACATTCAGTGTCAAAGCAGCAGA
GGCTCTTCTGACCCCAAGGGGTGACGTGCGGAGCTGCTACACTCTCTGCAGAGAGATC
AGAGGGGACAACAAGGAGTATGAGTACTCAGTGGAGTGCCAGGAGGACAGTGCCTGCCCA
GCTGCTGAGGAGAGTCTGCCATTGAGGTCATGGTGGATGCCGTTCAAGCTCAAGTAT
GAAAACACTACACCAGCAGCTTCTTCATCAGGGACATCATCAAACCTGACCCACCAAGAAC
TTGCAGCTGAAGCCATTAAGAATTCTCGGCAGGTGGAGGTCAGCTGGGAGTACCCTGAC
ACCTGGAGTACTCCATTCCTACTTCTCCCTGACATTCTGCGTTCAGGTCCAGGGCAAG
AGCAAGAGAGAAAAGAAAGATAGAGTCTTACGGACAAGACCTCAGCCACGGTCATCTGC
CGCAAAAATGCCAGCATTAGCGTGCGGGCCAGGACCGCTACTATAGCTCATCTTGGAGC
GAATGGGCATCTGTGCCCTGCAGTTAG

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Clone variation with respect to NM_002187.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002187 unedited CGCGAAAGTCAGGATTTGTATCACGATCTCATATAGGCGGCCGCCAGTGTGATGGATAT CTGCAGAAATTCGGCTTCAGAGCAAGATGTGTCACCAGCAGTTGGTCATCTCTTGGTTTTTC CCTGGTTTTCTGGCATCTCCCCCTGTGGCCATATGGGAACTGAAGAAAGATGTTTATGT CGTAGAATTGGATTGGTATCCGGATGCCCTGGAGAAATGGTGGTCTCACCTGTGACAC CCCTGAAGAAGATGGTATCACCTGGACCTTGGACCAGAGCAGTGAGGTCTTAGGCTTGG CAAAACCCTGACCATCCAAGTCAAAGAGTTTGGAGATGCTGGCCAGTACACCTGTCACAA AGGAGGCCGAGTTCTAAGCCATTCGCTCCTGCTGCTTCAAAAAAGGAAGATGGAATTTG GTCCACTGATATTTTAAAGGACCAGAAAGAACCACAAAAATAAGACCTTTCTAAGATGCGA GGCCAAGAATTATTCTGGACGTTTACCTGCTGGTGGCTGACGACAATCAGTACTGATTT GACATTCAGTGTCAAAGCAGCAGAGGCTCTTCTGACCCCAAGGGGTGACGTGCGGAGC TGCTACACTCTGTCAGAGAGAGTCAGAGGGGACAACAAGGAGTATGAGTACTCAGTGGA GTGCCAGGAGGACAGTGCCTGCCAGCTGCTGAGGAGAGTCTGCCATTGAGGTCATGGT TGGATGCCGTTACAAGCTCAAGTATGAAAACACACCCGAGCTTCTTCATCAGGGACA TCATCAAACCTGACCCACCAAGAAGTGCAGCTGGAAGCCATTAAGATTTCTCGCCGG TGGGAGGTCACCTTGAAGTACCCTGACACCTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002187 unedited TGGGNNAGGNNNNATGCACTGCATTCACTTCCAGGCCGNANAACACTGGGGAGGGGTC ACAGGGATGCCACCCGGGATCTGTTTCCAGGAAACAGCTATGACCGCGCCCAATCTAGAG TCGACAAGCTTGATATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTG GAATTCGGCTTTTTCATCTGGATCAGAACCTAACTGCAGGGCACAGATGCCATTGCT CCAAGATGAGCTATAGTAGCGGTCTGGGCCCGCAGCTAATGCTGGCATTTTTTCGGCA GATGACCGTGGCTGAGGTCTTGTCCGTGAAGACTCTATCTTTCTTTCTCTTGTCTT GCCCTGGACCTGAACGCAGAATGTCAGGGAGAAGTAGGAATGTGGAGTACTCCAGGTGTC AGGGTACTCCCAGCTGACCTCCACCTGCCGAGAATTCTTTAATGGCTTCAGCTGCAAGTT CTTGGGTGGGTCAGGTTTGTATGATGTCCCTGATGAAGAAGCTGCTGGTGTAGTTTTTATA CTTGAGCTTGTGAACGGCATCCACCATGACCTCAATGGGCAGACTCTCCTCAGCAGCTGG GCAGGCACTGTCTCCTGGCACTCCACTGAGTACTCATACTCCTTGTGTCCCCTCTGAC TCTCTCTGCAGAGAGTGTAGCAGCTCCGCACGTACCCCTTTGGGGTCAGAAGAGCCTCT GCTGCTTTGACACTGAATGTCAAATCAGTACTGATTTGCGTCAGCCACCAGCAGGTGAAA CGTCCAGAATAATTCTTGCTN</p>
Restriction Sites:	Please inquire
ACCN:	NM_002187
Insert Size:	1100 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:	<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_002187.2 , NP_002178.2
RefSeq Size:	2347 bp
RefSeq ORF:	987 bp
Locus ID:	3593
UniProt ID:	P29460
Cytogenetics:	5q33.3
Domains:	FN3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Allograft rejection, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus
Gene Summary:	<p>This gene encodes a subunit of interleukin 12, a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children. [provided by RefSeq, Jul 2008]</p>