

## Product datasheet for **RC239356**

### **IL12RB1 (NM\_001290024) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IL12RB1 (NM_001290024) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL12RB1
Synonyms:	CD212; IL-12R-BETA1; IL12RB; IMD30
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239356 representing NM\_001290024  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTTTCGTTGGTCTTTCTCCTTGCTCAGCTTCAATGTGTCCGGAGTGGGGACGGGTGGCTGAACCTC  
GCAGGTGGCAGAGAGGCTCCCCTGGGGCTGTGGGGCTCTACGTGGATCCGATGGAGCCGCTGGTGACCTG  
GGTGGTCCCCCTCCTCTTCTCCTTGCTGTCCAGGCAGGGCGCTGCCTGCAGAACCAGTGAGTGCTGT  
TTTCAGGACCCGCCATATCCGGATGCAGACTCAGGCTCGGCCCTCGGGCCCTAGGGACCTGAGATGTATC  
GGATATCCAGTGATCGTTACGAGTGCTCCTGGCAGTATGAGGGTCCCACAGCTGGGGTACGCCACTTCT  
GCGGTGTTGCCTTAGCTCCGGGCGCTGTGCTACTTCGCCCGGGCTCAGCCACCAGGCTGCAGTTCTCC  
GACCAGGTGGGGTGTCTGTGCTGTACACTGTCACTCTGGGTGGAATCCTGGGCCAGGAACCAGACAG  
AGAAGTCTCCTGAGGTGACCCTGCAGCTCTACAACCTAGTTAAATATGAGCCTCCTCTGGGAGACATCAA  
GGTGTCCAAGTTGGCCGGGCAGCTGCGTATGGAGTGGGAGACCCCGGATAACCAGTTGGTGTGAGGTG  
CAGTTCGGGCACCGGACACCCAGCAGCCATGGAAGTTGGGCGACTGCGGACCTCAGGATGATGACTG  
AGTCTGCCTCTGCCCTGGAGATGAATGTGGCCAGGAATTCAGCTCCGACGACGGCAGCTGGGGAG  
CCAAGGAAGTTCTGGAGCAAGTGGAGCAGCCCGTGTGCGTTCCCCCTGAAAACCCCCACAGCCTCAG  
GTGAGATTCTCGTGGAGCAGCTGGGCCAGGATGGGAGGAGGGCGCTGACCCTGAAAGAGCAGCCAAACC  
AGCTGGAGCTCCAGAAGGCTGTCAAGGGCTGGCGCTGGCAGGAGGTCACTTACCAGCTACAGCTCCA  
CATGCTGTCTGCCCGTGAAGGCCAAGGCCACCAGGACCCTGCACCTGGGGAAGATGCCCTATCTCTCG  
GGTGTGCCTACAACGTGGTGTATCTCTCGAACCAATTTGGTCTGGCCTGAACCAGACGTGGCACA  
TTCCTGCCGACACCCACAGAACCAAGTGGCTCTGAATATCAGCGTCGGAACCAACGGGACCACCATGTA  
TTGGCCAGCCCGGGCTCAGAGCATGACGTATTGCATTGAATGGCAGCCTGTGGGCCAGGACGGGGCCTT  
GCCACCTGCAGCCTGACTGCGCCGCAAGACCCGGATCCGGCTGGAATGGCAACCTACAGTGGAGTCGAG  
AGTCTGGGCAATGGGGCAGGAAAAGTGTACTACATTACCATCTTTGCCTCTGCGCACCCCGAGAAGCT  
CACCTTGTGGTCTACGGTCTGTCCACCTACCCTTTGGGGCAATGCCTCAGCAGCTGGGACACCCGCAC  
CACGTCTCGTGAAGAATCATAGCTTGGACTCTGTGTCTGTGGACTGGGCACCATCCCTGCTGAGCACCT  
GTCCCGGCGTCTAAAGGAGTATGTTGTCCGCTGCCGAGATGAAGACAGCAAACAGGTGTCAGAGCATCC  
CGTGCAGCCACAGAGACCCAAGTTACCCTCAGTGGCCTGCGGGCTGGTGTAGCCTACACGGTGCAGGTG  
CGAGCAGACACAGCGTGGCTGAGGGGTGTCTGGAGCCAGCCCAGCGCTCAGCATCGAAGTGCAGGTTT  
CTGATTGGCTCATCTTCTCGCCTCCCTGGGGAGCTTCTGAGCATCCTTCTCGTGGGCGTCTTGGCTA  
CCTTGGCCTGAACAGGGCCGACGGCACCTGTGCCCGCCGCTGCCACACCCCTGTGCCAGCTCCGCCATT  
GAGTTCCTGGAGGGAAGGAGACTTGGCAGTGGATCAACCCAGTGGACTTCCAGGAAGAGGCATCCCTGC  
AGGAGGCCCTGGTGGTAGAGATGTCTGGGACAAAGGCGAGAGGACTGAGCCTCTCGAGAAGACAGAGCT  
ACCTGAGGGTGCCCTGAGCTGGCCCTGGATACAGAGTTGTCCTTGGAGGATGGAGACAGGTGCAAGGCC  
AAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239356 representing NM\_001290024  
 Red=Cloning site Green=Tags(s)

MFVGLFSLLSFNVFRSGDVAEPRRWQRGSPGAVGLYVDPMEPLVTWVVP LLFLFLLSRQGAACRTSECC  
 FQDPPYPDADSGSASGPRDLRCYRISSDRYECSWQYEGPTAGVSHFLRCCLSSGRCCYFAAGSATRLQFS  
 DQAGVSVLYTTLWVESWARNQTEKSPEVTLQLYNSVKYEPPLGDIKVS KLAGQLRMEWETPDNQVGAEV  
 QFRHRTPSSPWKLGDCGPQDDDETECLCPLEMNVAQEFQLRRRQLGSQGSWSKWSPPVCVPPENPPQPQ  
 VRFVSVEQLGQDGRRLTLKEQPTQLELEPGCQGLAPGTEVYRQLHMLSCPKAKATRTLHLGKMPYLS  
 GAAYNVAVISSNQFGPLNQTWHIPADTHTEPVALNISVGTNGTMYWPARAQSMTCYIEWQPVGQDGG  
 ATCSLTAPQDPDPAGMATYSWSRESGAMGQEKCYITIFASAHPEKLTWSTVLSTYHFGGNASAAGTPH  
 HVSYKNHSLDSVSDWAPSLSTCPGVLKEYVVRCDREDSKQVSEHPVQPTETQVTL SGLRAGVAYTVQV  
 RADTAWLRGVWSQPQRFSEIVQVSDWLIFASLGSFLSILLVGLGVLGNRAARHLCPPLPTPCASSAI  
 EFPGGKETWQWINPVDFQEEASLQEALVVEMSWDKGERTEPLEKTELPEGAPELALDTELSLEDGDRCKA  
 KM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

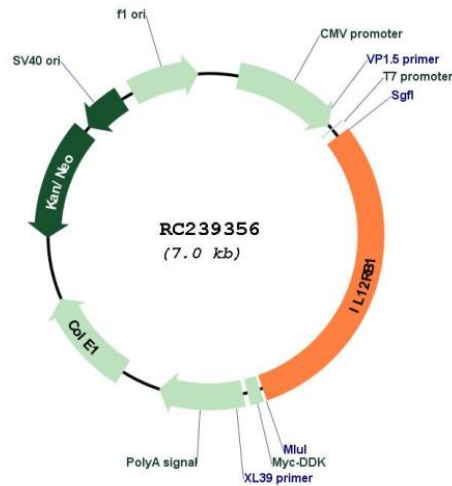
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001290024

**ORF Size:** 2106 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001290024.1](#), [NP\\_001276953.1](#)

**RefSeq Size:** 2791 bp

**RefSeq ORF:** 2109 bp

<b>Locus ID:</b>	3594
<b>Cytogenetics:</b>	19p13.11
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
<b>MW:</b>	77.9 kDa
<b>Gene Summary:</b>	<p>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]</p>