

Product datasheet for **RC239245**

IL12RB1 (NM_001290023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB1 (NM_001290023) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL12RB1
Synonyms:	CD212; IL-12R-BETA1; IL12RB; IMD30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239245 representing NM_001290023
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCGCTGGTGACCTGGGTGGTCCCCTCCTCTTCTCTTCTGCTGTCCAGGCAGGGCGCTGCCT
 GCAGAACCAGTGAGTGCTGTTTTTCAGGACCCGCCATATCCGGATGCAGACTCAGGCTCGGCCTCGGGCCC
 TAGGGACCTGAGATGCTATCGGATATCCAGTGATCGTTACGAGTGCTCCTGGCAGTATGAGGGTCCCACA
 GCTGGGGTCAGCCACTTCTCGGGTGTTCCTTAGCTCCGGGCGCTGCTGCTACTTCGCCCGGGCTCAG
 CCACCAGGCTGCAGTTCTCCGACCAGGCTGGGGTGTCTGTGCTGTACACTGTCACACTCTGGGTGGAATC
 CTGGGCCAGGAACCAGACAGAGAAGTCTCCTGAGGTGACCCTGCAGCTCTACAACCTAGTTAAATATGAG
 CCTCTCTGGGAGACATCAAGGTGTCCAAGTTGGCCGGGCAGCTGCGTATGGAGTGGGAGACCCCGGATA
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 ACCTCAGGATGATGATACTGAGTCTGCCTCTGCCCTTGAGATGAATGTGGCCAGGAATTCAGCTC
 CGACGACGGCAGCTGGGGAGCCAAGGAAGTTCTGGAGCAAGTGGAGCAGCCCGTGTGCGTTCCCCCTG
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 CCTGAAAGAGCAGCCAACCCAGCTGGAGCTTCCAGAAGGCTGTCAAGGGCTGGCGCTGGCACGGAGGTC
 ACTTACCGACTACAGCTCCACATGCTGTCTGCCCGTGTAAAGGCCAAGGCCACCAGGACCTGCACCTGG
 GGAAGATGCCCTATCTCTCGGGTGTGCCTACAACGTGGCTGTCTCTCGAACCAATTTGGTCTGG
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 TAGCCTACACGGTGCAGGTGCGAGCAGACACAGCGTGGCTGAGGGGTGTCTGGAGCCAGCCCAGCGCTT
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 CCTCTCGAGAAGACAGAGCTACCTGAGGGTGCCCTGAGCTGGCCTGGATACAGAGTTGTCTTGGAGG
 ATGGAGACAGATGTGATCGT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239245 representing NM_001290023
Red=Cloning site Green=Tags(s)

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MEPLVTWVPLLFLFLLSRQGAACRTSECCFQDPYPDADSGSASGPRDLRCYRISSDRYECSWQYEGPT
AGVSHFLRCLSSGRCCYFAAGSATRLQFSDQAGVSVLYTVTLWVESWARNQTEKSPEVTLQLYNSVKYE
PPLGDIKYSKLAGQLRMEWETPDNQVGAEVQFRHRTSPSPWKLGDGCPQDDDTESCLCPLEMNVAQEFQL
RRRQLGSQGSWSKWSSPVCVPPENPPQPQVRFVEQLGQDGRRLTLKEQPTQLELPEGCQGLAPGTEV
TYRLQLHMLSCPCKAKATRTLHLGKMPYLSGAAYNVAVISSNQFGPLNQTHIPADTHTEPVALNISVG
TNGTTMYWPARAQSMTYCIEWQPVGQDGLATCSLTAPQDPDPAGMATYSWSRESGAMGQEKCYITIFA
SAHPEKLTWSTVLYSTYHFGGNASAAAGTPHHVSVKNHSLDSVSDWAPSLSTPCPGLVKEYVVRCRDEDS
KQVSEHPVQPTETQVTL SGLRAGVAYTVQVRADTAWLRGVWSQPQRF SIEVQVSDWL IFFASLGSFLSIL
LVGVLGYLGLNRAARHLCPPLPTPCASSAIEFPGGKETQWINPVDFQEEASLQEALVVEMSWDKGERTE
PLEKTELPEGAPELALDTELSLEDGDRCDR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001290023

ORF Size: 1980 bp

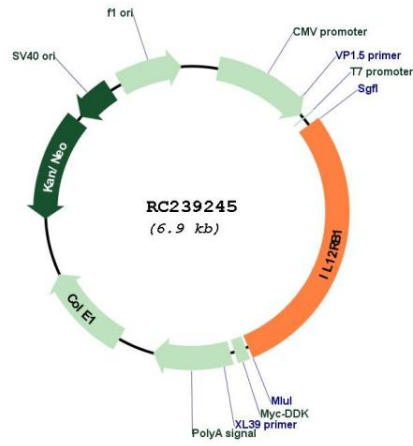
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_001290023.2
RefSeq Size:	2787 bp
RefSeq ORF:	1983 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:	73.4 kDa
Gene Summary:	<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>

Product images:



Circular map for RC239245