

Product datasheet for **RG239356**

IL12RB1 (NM_001290024) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB1 (NM_001290024) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL12RB1
Synonyms:	CD212; IL-12R-BETA1; IL12RB; IMD30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG239356 representing NM_001290024.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTTCGTTGGTCTTTTCTCCTTGCTCAGCTTCAATGTGTTCCGGAGTGGGGACGGGGTGGCTGAACCT
CGCAGGTGGCAGAGAGGCTCCCCTGGGGCTGTGGGGCTCTACGTGGATCCGATGGAGCCGCTGGTGACC
TGGGTGGTCCCCCTCCTCTTCTCCTTCTGCTGTCCAGGCAGGGCGCTGCCTGCAGAACCAGTGAGTGC
TGTTTTAGGACCCGCCATATCCGGATGCAGACTCAGGCTCGGCCCTCGGGCCCTAGGGACCTGAGATGC
TATCGGATATCCAGTGATCGTTACGAGTGTCTCTGGCAGTATGAGGGTCCCACAGCTGGGGTCCAGCCAC
TTCCTGCGGTGTTGCCTTAGCTCCGGGCGCTGCTGCTACTTCGCCCGCGCTCAGCCACCAGGCTGCAG
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GTGGACTTCCAGGAAGAGGCATCCCTGCAGGAGGCCCTGGTGGTAGAGATGTCTGGGACAAAGGCGAG
AGGACTGAGCCTCTCGAGAAGACAGAGTACCTGAGGGTGCCCTGAGCTGGCCCTGGATACAGAGTTG
TCCTTGGAGGATGGAGACAGGTGCAAGGCCAAGATG
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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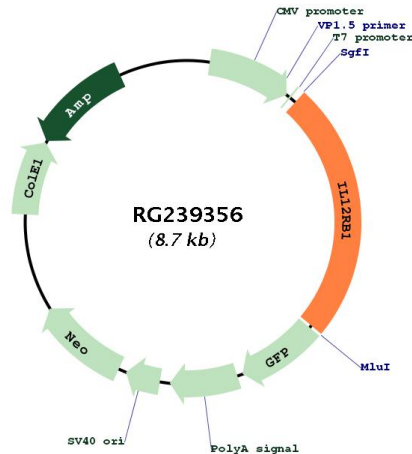
Protein Sequence: >Peptide sequence encoded by RG239356
 Blue=ORF Red=Cloning site Green=Tag(s)

MFVGLFSLLSFNVFRSGDVAEPRRWQRGSPGAVGLYVDPMEPLVTWVVP LLFLFLLSRQGAACRTSEC
 CFQDPYPDADSGSASGPRDLRCYRISSDRYECSWQYEGPTAGVSHFLRCLSSGRCCYFAAGSATRLQ
 FSDQAGVSVLYTVTLWVESWARNQTEKSPEVTLQLYNSVKYEPPLGDIKYSKLAGQLRMWETPDNQVG
 AEVQFRHRTSPSPWKLGDGCPQDDDESLCPLMNVAQEFQLRRRQLGSQSSWSKSSPVCVPPENP
 PQPQVRFVSEQLGQDGRRLTLKEQPTQLLEPEGCQLAPGTEVYRQLHMLSCPCAKATRTHLHGK
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 GQDGGGLATCSLTAPQDDPAGMATYSWSRESGAMGQEKCYITIFASAHPEKLTWSTVLSTYHFGGNA
 SAAGTPHHVSVKNHSLDSVSDWAPSLSTCPGVLKEYVVRCDDESKQVSEHPVQPTETQVTL SGLRA
 GVAYTVQVRADTAWLRGVWSQPQRFSIEVQVSDWLIFASLGSFLSILLVGLVGLNLNRAARHLCPPL
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 SLEDGDRCKAKM
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).
RefSeq:	NM_001290024.1 , NP_001276953.1
RefSeq Size:	2791 bp
RefSeq ORF:	2109 bp
Locus ID:	3594
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
MW:	77.9 kDa

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]