

Product datasheet for **RG216444**

IL12RB1 (NM_153701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB1 (NM_153701) 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)
ORF Nucleotide Sequence:	>RG216444 representing NM_153701 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGCTGGTGACCTGGTGGTCCCCCTCTTCTTCTTCTGCTGTCCAGGCAGGGCGCTGCCT
GCAGAACCAGTGAGTGTGTTTTAGGACCCGCCATATCCGGATGCAGACTCAGGCTCGGCCCGGGCCC
TAGGGACCTGAGATGCTATCGGATATCCAGTGATCGTTACGAGTGTCTTGGCAGTATGAGGGTCCCACA
GCTGGGGTCAGCCACTTCTGCGGTGTTGCCTTAGCTCCGGGCGCTGCTGCTACTTCGCCCGGGCTCAG
CCACCAGGCTGCAGTTCTCCGACCAGGCTGGGGTGTCTGTGCTGTACACTGTCACACTCTGGGTGGAATC
CTGGGCCAGGAACCAGACAGAGAAGTCTCTGAGGTCACCTGCAGCTCTACAACCTCAGTTAAATATGAG
CCTCCTCTGGGAGACATCAAGGTGTCCAAGTTGGCCGGGAGCTGCGTATGGAGTGGGAGACCCCGGATA
ACCAGGTTGGTGTGAGGTGCAGTTCGGCACCCGACACCCAGCAGCCATGGAAGTTGGGCGACTGCGG
ACCTCAGGATGATGATACTGAGTCTGCCTCTGCCCTGGAGATGAATGTGGCCAGGAATTCAGCTC
CGACGACGGCGGCTGGGAGCCAAGGAAGTTCCTGGAGCAAGTGGAGCAGCCCTGTGTGCGTTCCCCCTG
AAAACCCCCACAGCCTCAGGTGAGATTCTCGTGGAGCAGCTGGGCCAGGATGGGAGGAGCGGCTGAC
CCTGAAAGAGCAGCCAACCCAGCTGGAGTTCAGAAAGGCTGTCAAGGGCTGGCGCTGGCACGGAGGTC
GGAAGATGCCCTATCTCTCGGGTGTGCCTACAACGTGGCTGTCACTCTCGAACCAATTTGGTCTCTGG
CCTGAACCAGACGTGGCACATTCTGCCGACACCCACACAGATGGCATGATCTCAGCTCACTGCAACCTC
CGCCTTCCAGATTCAAGAGATTCTCTGCTTACGCTCCCGAGTAGTGGGATTACAGGCATCTGCCACC
ATACCCGGCTAATTTGTATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

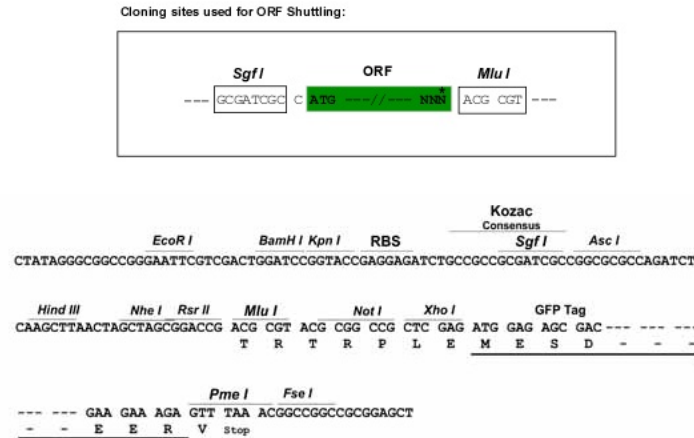
Protein Sequence: >RG216444 representing NM_153701
 Red=Cloning site Green=Tags(s)

```
MEPLVTWVPLLFLFLLSRQGAACRTSECCFQDPPYPDADSGSASGPRDLRCYRISSDRYECSWQYEGPT
AGVSHFLRCLSSGRCCYFAAGSATRLQFSDQAGVSVLYTVTLLWVESWARNOATEKSPEVTLQLYNSVKYE
PPLGDIKYSKLAGQLRMEWETPDNQVGAEVQFRHRTSPSPWKLGDGCPQDDDTESCLCPLMNVAQEFQL
RRRRLGSQSSWSKWSSPVCVPPENPPQPQVRFVVEQLGQDGRRLTLKEQPTQLELPEGCQGLAPGTEV
TYRQLHMLSCPCKAKATRTLHLGKMPYLSGAAYNVAVISSNQFGPLNQTWHIPADTHTDGMISAHCNL
RLPDSRSPASASRVAGITGICHHTRLILYF
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153701

ORF Size: 1143 bp

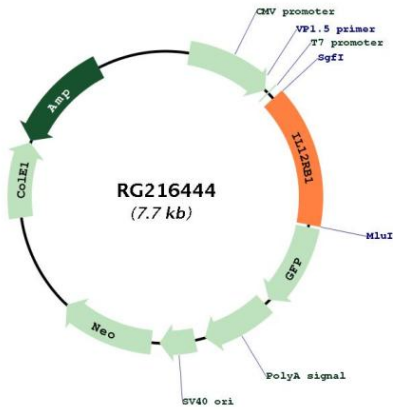
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_153701.1</u> , <u>NP_714912.1</u>
RefSeq Size:	1881 bp
RefSeq ORF:	1146 bp
Locus ID:	3594
UniProt ID:	<u>P42701</u>
Cytogenetics:	19p13.11
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 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]

Product images:



Circular map for RG216444