

## Product datasheet for **RC234870**

### IL12RB2 (NM\_001258215) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB2 (NM_001258215) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL12RB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234870 representing NM\_001258215  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACATACTTTAGAGGATGCTCATTGGCATTATGTTTATAATCACGTGGCTGTTGATTAAGCAA  
 AAATAGATGCGTGCAAGAGAGGCCGATGTGACTGTGAAGCCTTCCCATGTAAATTTACTTGGATCCACTGT  
 CAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTCACTATTCCAGACGTAACAAGTTAATCCTG  
 TACAAGTTTGACAGAAGAATCAATTTTACCATGGCCACTCCCTCAATTCTCAAGTCACAGGTCTTCCCC  
 TTGGTACAACCTTGTGTCTGCAAACTGGCCTGTATCAATAGTGATGAAATTCAAATATGTGGAGCAGA  
 GATCTTCGTTGGTGTGCTCCAGAACAGCCTCAAAATTTATCCTGCATACAGAAGGGAGAACAGGGGACT  
 GTGGCCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAGTGGAC  
 CAAAAATTTAACCTGGCAGAAGCAATGTAAGACATTTATTGTGACTATTTGGACTTTGGAATCAACCT  
 CACCCCTGAATCACCTGAATCCAATTTACAGCCAAGGTTACTGTGTCAATAGTCTTGGAACTCCTCT  
 TCACTTCCATCCACATTCACATTTCTGGACATAGTGAGGCCTTCTCTCGTGGGACATTAGAATCAAAT  
 TTCAAAGGCTTCTGTGAGCAGATGTACCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACT  
 CAGATATCGGCCAGTAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGAT  
 TTGCTGGATCTGAAACATTTACAGAATATGAATTTAGATTTCTCTAAGCTACATCTTTATAAGGGAA  
 GTTGGAGTGATTGGAGTGAAATCATTGAGAGCACAAACACCAGAAGAAGAGCCTACTGGGATGTTAGATGT  
 CTGGTACATGAAACGGCACATTTGACTACAGTAGACAACAGATTTCTTTTTCTGGAAGAATCTGAGTGC  
 TCAGAGGCAAGAGGAAAAATTTCCACTATCAGGTGACCTTGCAGGAGCTGACAGGAGGGAAAGCCATGA  
 CACAGAACATCACAGGACACACCTCTGGACCACAGTCATTCTAGAACCGGAAATTTGGGTGTGGCTGT  
 GTCTGCAGCAAAATTTCAAAGGCAGTTCTCTGCCACTCGTATTAACATAATGAACCTGTGTGAGGCAGGG  
 TTGCTGGCTCCTCGCAGGTCTCTGCAAACTCAGAGGGCATGGACAACATTCTGGTGACTTGGCAGCCTC  
 CCAGGAAAGATCCCTCTGCTGTTCCAGGAGTACGTGGTGAATGGAGAGAGCTCCATCCAGGGGTGACAC  
 ACAGGTCCTCTAAACTGGCTACGGAGTCGACCCTACAATGTGTCTGCTCTGATTTCCAGAAATTCCTAC  
 AGAGTCTCCAAAATTCACATCCAATAAACAGCCTGCAGCCCCGAGTGACATATGCTCTGGATGACAG  
 CTCTGACAGCTGCTGGTAAAGTTCCACGGAAATGAGAGGGAATTTGTCTGCAAGGTAAGCCAATTG  
 GATGGCGTTTGTGGCACCAAGCATTTCATTGCTATCATCATGGTGGCATTCTCAACGCATTACTTC  
 CAGCAAAAGGTGTTTGTCTCCTAGCAGCCCTCAGACCTCAGTGGTGTAGCAGAGAAATTCAGATCCAG  
 CAAATAGCACTTGCCTAAGAAATATCCATTGCAGAGGAGAAGACACAGCTGCCCTTGGACAGGCCTCT  
 GATAGACTGGCCACGCCTGAAGATCCTGAACCGCTGGTCACTCAGTGAAGTCCTTCATCAAGTGACCCCA  
 GTTTTCAGACATCCCCCTGCTCCAACCTGGCCACAAAGGGAAAAAGGAATCCAAGGTCATCAGGCCTCTG  
 AGAAAGACATGATGCACAGTGCCTCAAGCCCACCCTCCAAGAGCTCTCCAAGCTGAGAGCAGACAAC  
 GGTGGATCTGTACAAGGTGCTGGAGAGCAGGGGCTCCGACCCAAAGCCGAAAACCCAGCCTGTCCTGG  
 ACGGTGCTCCACAGAGTACCTTCCACCCATGATGGCTACTTACCCTCCAACATAGATGACCTCCCCT  
 CACATGAGGCACCTCTCGCTGACTCTCTGGAAGAACTGGAGCCTCAGCACATCTCCCTTTCTGTTTTCC  
 CTCAGTTCTCTTACCCTACTCACCTTCTCTGTGGTGATAAGCTGACTCTGGATCAGTTAAGATGAGG  
 GTGACTCCCTCATGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234870 representing NM\_001258215  
Red=Cloning site Green=Tags(s)

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNIITCSLKPRQGCFFHYSRRNKLIL  
 YKFDRRINFHHGSLNSQVTGLPLGTTLFVCKLACINSDEIQICGAEIFVGAPEQPQLSCIQKGEQGT  
 VACTWERGRDTHLYTEYTLQLSGPKNLTWQKQCKDIYCDYLDGFINLTPESPESNFTAKVTAVNSLGSS  
 SLPSTFTFLDIVRPLPPWDIRIKFKQASVSRCTLYWRDEGLVLLNRLRYRPSNSRLWNMNVNVTAKGRHD  
 LLDLKPFFEYEFQISSKLHLYKGSWSDWSESLRAQTPEEPTGMLDVWYMKRHIDYSRQQISLFWKNLSV  
 SEARGKILHYQVTLQELTGGKAMTQNITGHTSWTTVIPRTGNWAVAVSAANSKGSPLPRINIMNLC  
 EAGLLAPRQVSANSEGMDNILVTWQPPRKDPSAVQEYVVEWRELHPGGDTQVPLNWLRSRPNVNSALISEIPY  
 RVSQNSHPINSLQPRVTVLWMTALTAAGESSHGNEREFCLQGANWMAFVAPSICIAIIMVGIFSTHYF  
 QQKVFVLLAALRPQWCSREIPDPANSTCAKKYPIAEKTLPLDRLLIDWPTPEDPEPLVISEVLHQVTP  
 VFRHPPCSNWPQREKGIQGHQASEKDMHSASSPPPPRALQAESRQLVDLYKVLSESRGSDPKPENPACPW  
 TVLPAGDLPTHGGLPSNIDDLPSHEAPLADSLLEELPQHISL SVFPSSSLHPLTFSCGDKLTL DQLKMR  
 CDSLML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001258215

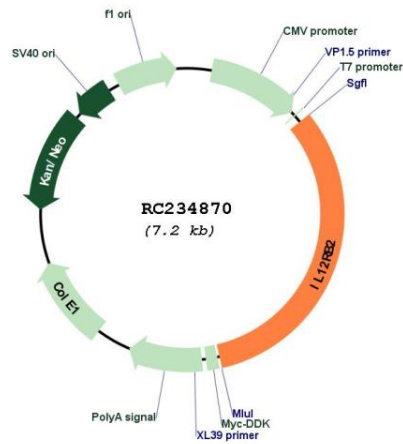
**ORF Size:** 2328 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001258215.1</a></u> , <u><a href="#">NP_001245144.1</a></u>
<b>RefSeq Size:</b>	3782 bp
<b>RefSeq ORF:</b>	2331 bp
<b>Locus ID:</b>	3595
<b>UniProt ID:</b>	<u><a href="#">Q99665</a></u>
<b>Cytogenetics:</b>	1p31.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
<b>MW:</b>	87.9 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a type I transmembrane protein identified as a subunit of the interleukin 12 receptor complex. The coexpression of this and IL12RB1 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. The expression of this gene is up-regulated by interferon gamma in Th1 cells, and plays a role in Th1 cell differentiation. The up-regulation of this gene is found to be associated with a number of infectious diseases, such as Crohn's disease and leprosy, which is thought to contribute to the inflammatory response and host defense. Several transcript variants encoding different isoforms and non-protein coding transcripts have been found for this gene. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RC234870