

## Product datasheet for **RC211143**

### IL12RB2 (NM\_001559) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB2 (NM_001559) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL12RB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC211143 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCACATACTTTAGAGGATGCTCATTGGCATTATGTTTATAATCACGTGGCTGTTGATTAAGCAA  
 AAATAGATGCGTGCAAGAGAGGCGATGTGACTGTGAAGCCTTCCCATGTAAATTTACTTGGATCCACTGT  
 CAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTCACTATTCCAGACGTAACAAGTTAATCCTG  
 TACAAGTTTGACAGAAGAATCAATTTTACCATGGCCACTCCCTCAATTCTCAAGTCACAGGTCTTCCCC  
 TTGGTACAACCTTGTGTCTGCAAACTGGCCTGTATCAATAGTGATGAAATTCAAATATGTGGAGCAGA  
 GATCTTCGTTGGTGTGCTCCAGAACAGCCTCAAAATTTATCCTGCATACAGAAGGGAGAACAGGGGACT  
 GTGGCCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAGTGGAC  
 CAAAAATTTAACCTGGCAGAAGCAATGTAAGACATTTATTGTGACTATTTGGACTTTGGAATCAACCT  
 CACCCCTGAATCACCTGAATCCAATTTACAGCCAAGTTACTGTGTCAATAGTCTTGGAACTCCTCT  
 TCACTTCCATCCACATTCACATTCCTGGACATAGTGAGGCCTTCTCTCGTGGGACATTAGAATCAAAT  
 TTCAAAGGCTTCCGTGAGCAGATGTACCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACT  
 CAGATATCGGCCAGTAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGAT  
 TTGCTGGATCTGAAACATTTACAGAATATGAATTTAGATTTCTCTAAGCTACATCTTTATAAGGGAA  
 GTTGGAGTGATTGGAGTGAATCATTGAGAGCACAAACACCAGAAGAAGAGCCTACTGGGATGTTAGATGT  
 CTGGTACATGAAACGGCACATTGACTACAGTAGACAACAGATTTCTTTTCTGGAAGAATCTGAGTGTC  
 TCAGAGGCAAGAGGAAAAATCTCCACTATCAGGTGACCTTGCAGGAGCTGACAGGAGGAAAGCCATGA  
 CAGAGAACATCACAGGACACACCTCCTGGACCACAGTCATTCTAGAACCAGGAAATTTGGCTGTGGCTGT  
 GTCTGCAGCAAAATTCAAAAGGCAGTTCTCTGCCACTCGTATTAACATAATGAACCTGTGTGAGGCAGGG  
 TTGCTGGCTCCTCGCCACGTCTCTGCAAACTCAGAGGCGATGGACAACATTCTGGTGACTTGGCAGCCTC  
 CCAGGAAAGATCCCTCTGCTGTTGAGGAGTACGTGGTGAATGGAGAGAGCTCCATCCAGGGGTGACAC  
 ACAGGTCCTCTAACTGGCTACGGAGTCGACCTACAATGTGTCTGCTCTGATTTAGAGAACATAAAAA  
 TCCTACATCTGTTATGAAATCCGTGTGTATGCACTCTCAGGGGATCAAGGAGGATGCAGCTCCATCTGG  
 GTAACCTAAGCACAAGCACCCTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAAGGGGAGCAT  
 TTTAATTTATGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCATTATAGGATATACTGG  
 AAGGAACGGGACTCCAACCTCCAGCCTCAGCTCTGTGAAATTCCTACAGAGTCTCCAAAATTCACATC  
 CAATAAACAGCCTGCAGCCCCGAGTGACATATGTCCTGTGGATGACAGCTCTGACAGCTGCTGGTGAAG  
 TTCCCACGAAATGAGAGGGAATTTGTCTGCAAGGTAAGCCAATTGGATGGCGTTTGTGGCACCAAGC  
 ATTTGCATTGCTATCATCATGGTGGCATTCTTCTCAACGCATTACTTCCAGCAAAAGGTGTTTGTCTCC  
 TAGCAGCCCTCAGACCTCAGTGGTGTAGCAGAGAAATTCAGATCCAGCAAAATAGCACTTGCCTAAGAA  
 ATATCCCATTGCAGAGGAGAAGACACAGCTGCCCTTGGACAGGCTCCTGATAGACTGGCCACGCCTGAA  
 GATCCTGAACCGCTGGTATCAGTGAAGTCCTTCAAGTGACCCAGTTTTTACAGATCCCCCTGCT  
 CCAACTGGCCACAAGGGAAAAAGGAATCCAAGGTCATCAGGCCCTGAGAAAAGACATGATGCACAGTGC  
 CTAAGCCACCACTCCAAGAGCTCTCAAGCTGAGAGCAGACAACCTGGTGGATCTGTACAAGGTGCTG  
 GAGAGCAGGGGCTCCGACCCAAAGCCAGAAAACCCAGCCTGTCCCTGGACGGTGTCCCAGCAGGTGACC  
 TTCCCACCATGATGGCTACTTACCCTCCAACATAGATGACCTCCCTCACATGAGGCACCTCTCGTGA  
 CTCTCTGGAAGAACTGGAGCCTCAGCACATCTCCCTTTCTGTTTTCCCCTCAAGTTCTCTTACCCACTC  
 ACCTTCTCCTGTGGTGATAAGCTGACTCTGGATCAGTTAAAGATGAGGTGTGACTCCCTCATGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC211143 protein sequence  
Red=Cloning site Green=Tags(s)

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNITCSLKPRQGCFFHYSRRNKLIL  
YKFDRRINFHHGHSLSNSQVTGLPLGTTLFVCKLACINSDEIQICGAEIFVGVAPQPNLSCIQKGEQGT  
VACTWERGRDTHLYTEYTLQLSGPKNLTWQKQCKDIYCDYLDGFINLTPESPESNFTAKVTAVNSLGSSS  
SLPSTFTFLDIVRPLPPWDIRIKFKASVSRECTLYWRDEGLVLLNRLRYRPSNSRLWNMNVNVTAKGRHD  
LLDLKPFTEYEFQISSKLHL YKGSWSDWSESLRAQTPEEPTGMLDVWYMKRHIDYSRQQISLFWKNLSV  
SEARGKILHYQVTLQELTGGKAMTQNITGHTSWTTVIPRTGNWAVAVSAANSKGSLLPTRINIMNLCEAG  
LLAPRHVSANSEGMDNILVTWQPPRKDPSAVQEYVVEWRELHPGGDTQVPLNWLRSRPNVNSALISENIK  
SYICYEIRVYALSGDQGGCSSILGNSKHKAPLSGPHINAITEEKGSILISWNSIPVQEQMGCLLHYRIYW  
KERDSNSQPQLCEIPYRVSNQNSHPINSLQPRVTVLWMTALTAAGESSHGNEREFCLQGANWMAFVAPS  
ICIAIIMVGIFSTHYFQQKVFVLLAALRPQWCSREIPDPANSTCAKKYPIAEKTLPLDRLLIDWPTPE  
DPEPLVISEVLHQVTPVFRHPPCSNWPQREKGIQGHQASEKMMHSASSPPPPRALQAESRQLVDLYKVL  
ESRGSDPKPENPACPWTVL PAGDLPTHDGYLPSNIDDLPSHEAPLADSLEELPQHISLSVFPSSSLHPL  
TFSCGDKLTLDQLKMRCDLML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6201\\_f05.zip](https://cdn.origene.com/chromatograms/mk6201_f05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001559

**ORF Size:** 2586 bp

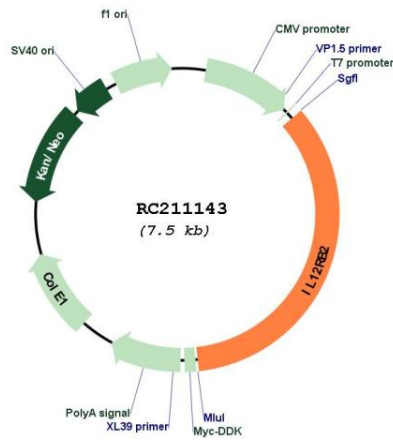
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

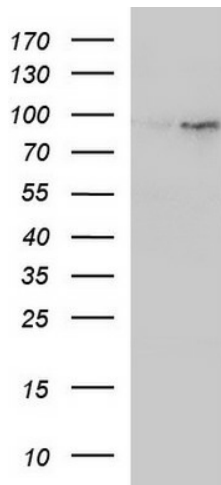
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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>NM_001559.2, NP_001550.1</u>
<b>RefSeq Size:</b>	4040 bp
<b>RefSeq ORF:</b>	2589 bp
<b>Locus ID:</b>	3595
<b>UniProt ID:</b>	<u>Q99665</u>
<b>Cytogenetics:</b>	1p31.3
<b>Domains:</b>	FN3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
<b>MW:</b>	97.1 kDa
<b>Gene Summary:</b>	<p>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]</p>

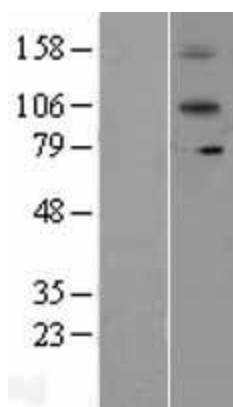
Product images:



Circular map for RC211143



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IL12RB2 (Cat# RC211143, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IL12(Cat# [TA590087]). Positive lysates [LY400597] (100ug) and [LC400597] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400597]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211143 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).