

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)



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ORF Nucleotide Sequence:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACATACTTTAGAGGATGCTCATTGGCATTATGTTTATAATCACGTGGCTGTTGATTAAGCAA
 AAATAGATGCGTGCAAGAGAGGCGATGTGACTGTGAAGCCTTCCCATGTAAATTTACTTGATCCACTGT
 CAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTCACTATTCCAGACGTAACAAGTTAATCCTG
 TACAAGTTTGACAGAAGAATCAATTTTACCATGGCCACTCCCTCAATTCTCAAGTCACAGGTCTTCCCC
 TTGGTACAACCTTGTGTGCTGCAAACTGGCCTGTATCAATAGTGATGAAATTCAAATATGTGGAGCAGA
 GATCTTCGTTGGTGTGCTCCAGAACAGCCTCAAAATTTATCCTGCATACAGAAGGGAGAACAGGGGACT
 GTGGCCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAGTGGAC
 CAAAAATTTAACCTGGCAGAAGCAATGTAAGACATTTATTGTGACTATTTGGACTTTGGAATCAACCT
 CACCCCTGAATCACCTGAATCCAATTTACAGCCAAGTTACTGTGTCAATAGTCTTGGAACTCCTCT
 TCACTTCCATCCACATTCACATTCCTGGACATAGTGAGGCCTTCTCTCGTGGGACATTAGAATCAAAT
 TTCAAAGGCTTCCGTGAGCAGATGTACCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACT
 CAGATATCGGCCAGTAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGAT
 TTGCTGGATCTGAAACATTTACAGAATATGAATTTAGATTTCTCTAAGCTACATCTTTATAAGGGAA
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 TCAGAGGCAAGAGGAAAAATTCCTACTATCAGGTGACCTTGCAGGAGCTGACAGGAGGAAAGCCATGA
 CAGAGAACATCACAGGACACACCTCCTGGACCACAGTCATTCTAGAACCAGGAAATTTGGCTGTGGCTGT
 GCTCTGCAGCAAATTCAAAAGGCAGTTCTCTGCCACTCGTATTAACATAATGAACCTGTGTGAGGCAGGG
 TTGCTGGCTCCTCGCCAGTCTCTGCAAACTCAGAGGCATGGACAACATTCTGGTGACTTGGCAGCCTC
 CCAGGAAAGATCCCTCTGCTGTTGAGGAGTACGTGGTGAATGGAGAGAGCTCCATCCAGGGGTGACAC
 ACAGGTCCTCTAACTGGCTACGGAGTCGACCCTACAATGTGTCTGCTCTGATTTAGAGAACATAAAA
 TCCTACATCTGTTATGAAATCCGTGTGTATGCACTCTCAGGGGATCAAGGAGGATGCAGCTCCATCTGG
 GTAACCTAAGCACAAGCACCCTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAGGGGAGCAT
 TTTAATTTATGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCATTATAGGATATACTGG
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 ATTTGCATTGCTATCATCATGGTGGCATTCTTCAACGCATTACTTCCAGCAAAAGGTGTTTGTCTCC
 TAGCAGCCCTCAGACCTCAGTGGTGTAGCAGAGAAATTCAGATCCAGCAAAATAGCACTTGCCTAAGAA
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 GATCCTGAACCGCTGGTATCAGTGAAGTCCTTCAAGTGACCCAGTTTTTCAGACATCCCCCTGCT
 CCAACTGGCCACAAGGGAAAAAGGAATCCAAGGTCATCAGGCCCTCTGAGAAAGACATGATGCACAGTGC
 CTAAGCCACCACTCCAAGAGCTCTCAAGCTGAGAGCAGACAACCTGGTGGATCTGTACAAGGTGCTG
 GAGAGCAGGGGCTCCGACCCAAAGCCAGAAAACCCAGCCTGTCCCTGGACGGTGTCCCAGCAGGTGACC
 TTCCCACCATGATGGCTACTTACCCTCCAACATAGATGACCTCCCTCACATGAGGCACCTCTCGTGA
 CTCTCTGGAAGAACTGGAGCCTCAGCACATCTCCCTTTCTGTTTTCCCCTCAAGTTCTCTTACCCACTC
 ACCTTCTCCTGTGGTGATAAGCTGACTCTGGATCAGTTAAAGATGAGGTGTGACTCCCTCATGCTC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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

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

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6201_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001559

ORF Size: 2586 bp

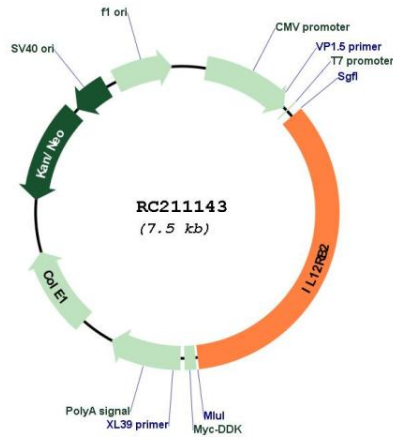
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

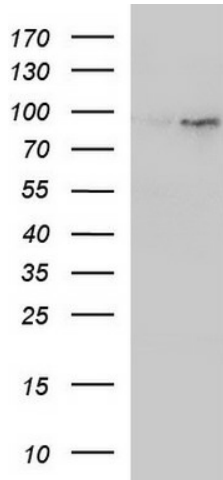
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001559.2 , NP_001550.1
RefSeq Size:	4040 bp
RefSeq ORF:	2589 bp
Locus ID:	3595
UniProt ID:	Q99665
Cytogenetics:	1p31.3
Domains:	FN3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
MW:	97.1 kDa
Gene Summary:	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]

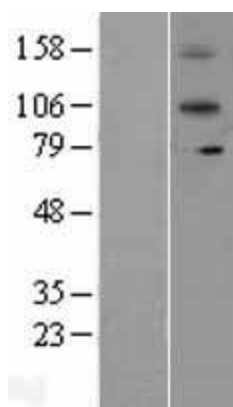
Product images:



Circular map for 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]).