

## Product datasheet for RC221860

### IL1 Receptor II (IL1R2) (NM\_004633) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL1 Receptor II (IL1R2) (NM_004633) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL1 Receptor II
Synonyms:	CD121b; CDw121b; IL-1R-2; IL-1RT-2; IL-1RT2; IL1R2c; IL1RB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221860 representing NM_004633 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGCGCTTGTACGTGTTGGTAATGGGAGTTTCTGCCTTCACCCTTCAGCCTGCGGCACACACAGGGG  
CTGCCAGAAGCTGCCGTTTCGTGGGAGGCATTACAAGCGGGAGTTCAGGCTGGAAGGGGAGCCTGTAGC  
CCTGAGGTGCCCCAGGTGCCCTACTGGTTGTGGGCTCTGTAGCCCCGCATCAACCTGACATGGCAT  
AAAAATGACTCTGCTAGGACGGTCCCAGGAGAAGAAGAGACACGGATGTGGGCCAGGACGGTCTGT  
GGCTTCTGCCAGCCTTGCAAGGACTCTGGCACCTACGTCTGCACTACTAGAAATGCTTCTTACTGTGA  
CAAAATGTCCATTGAGCTCAGAGTTTTTGAGAATACAGATGCTTTCTGCCGTTTCATCTCATACCCGCAA  
ATTTAACTTGTCAACCTCTGGGGTATTAGTATGCCCTGACCTGAGTGAATTCACCCGTGACAAAAGT  
ACGTGAAGATTCAATGGTACAAGGATTCTTCTTTGGATAAAGACAATGAGAAATTTCTAAGTGTGAG  
GGGACCCTCACTTACTCGTACACGATGTGGCCCTGGAAGATGCTGGCTATTACCGCTGTGTCCTGACA  
TTTGCCCATGAAGGCCAGCAATACAACATCACTAGGAGTATTGAGCTACGCATCAAGAAAAAAAAAAGAG  
AGACCATTCCTGTGATCATTTCCCCCTCAAGACCATATCAGTCTCTCTGGGGTCAAGACTGACAATCCC  
GTGTAAGTGTTTCTGGGAACCGGCACACCCCTTAACCACCATGCTGTGGTGGACGGCCAAATGACACCCAC  
ATAGAGAGCGCCTACCCGGGAGCGCGTGACCCGAGGGCCAGCCAGGAATATTCAGAAAAAATGAGA  
ACTACATTGAAGTGCCATTGATTTTTGATCCTGTCAAGAGAGGATTTGCACATGGATTTAAATGTGT  
TGTCATAAATACCCTGAGTTTTTCAGACACTACGCACCACAGTCAAGGAAGCCTCTCCACGTTCTCTGG  
GGCATTGTGCTGGCCCCACTTTCACTGGCCTTCTTGGTTTTGGGGGAATATGGATGCACAGACGGTGCA  
AACACAGAACTGGAAAAGCAGATGGTCTGACTGTGCTATGGCCTCATCATCAAGACTTTCAATCCTATCC  
CAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC221860 representing NM\_004633  
Red=Cloning site Green=Tags(s)

MLRL YVL VMGVSAFTLQPA AHTGAARSCRFRGRHYKREFRLEGE PVALRCPQVPYWLWASVSPRINLTWH  
 KNDSARTVPGE EETRMWAQD GALWLLPALQEDSGTYVCTTRNASYCDKMSIELRVFENTDAFLPFISYPQ  
 ILTLSTSGVLVCPDLSEFTRDKTDVKIQWYKDSL LLDKDNEKFLSVRGTHLLVHDVALEDAGYRCVLT  
 FAHEGQQYNITRSIELRIK KKKKEETIPV IISPLKTI SASLGSRLTIPCKVFLGTGTPLT TMLWWTANDTH  
 IESAYPGGRVTEGPRQEYSENNENYIEVPLIFDPVTREDLHMDFKCVVHNTLSFQTLRTTVKEASSTFSW  
 GIVLAPLSLAF LVLGGIWMHRRCKHRTGKADGLTVLWPHHQDFQSYPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6122\\_h11.zip](https://cdn.origene.com/chromatograms/mk6122_h11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_004633

**ORF Size:** 1194 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:**

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\\_004633.4](#)

**RefSeq Size:** 1484 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 7850

**UniProt ID:** [P27930](#)

**Cytogenetics:** 2q11.2

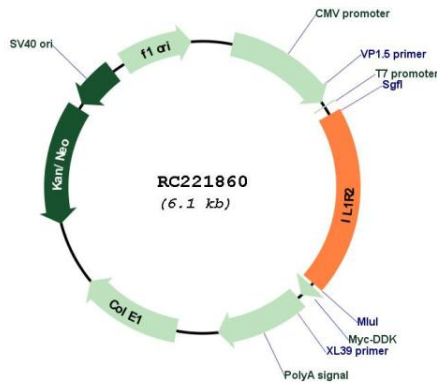
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, MAPK signaling pathway

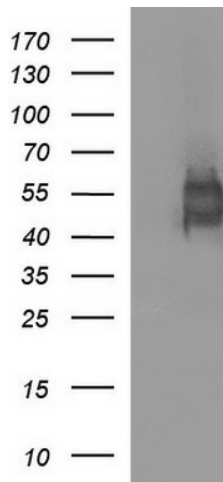
**MW:** 45.42 kDa

**Gene Summary:** The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family. This protein binds interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA), and acts as a decoy receptor that inhibits the activity of its ligands. Interleukin 4 (IL4) is reported to antagonize the activity of interleukin 1 by inducing the expression and release of this cytokine. This gene and three other genes form a cytokine receptor gene cluster on chromosome 2q12. Alternative splicing results in multiple transcript variants and protein isoforms. Alternative splicing produces both membrane-bound and soluble proteins. A soluble protein is also produced by proteolytic cleavage. [provided by RefSeq, May 2012]

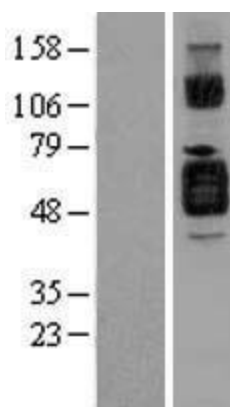
Product images:



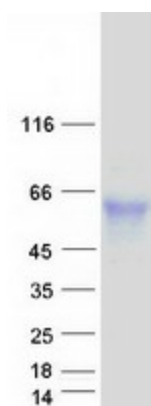
Circular map for RC221860



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IL1R2 (Cat# RC221860, 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-IL1R2 (Cat# [TA506802]). Positive lysates [LY401469] (100ug) and [LC401469] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401469]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221860 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IL1R2 protein (Cat# [TP321860]). The protein was produced from HEK293T cells transfected with IL1R2 cDNA clone (Cat# RC221860) using MegaTran 2.0 (Cat# [TT210002]).