

Product datasheet for **RG221860**

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:	TurboGFP
Symbol:	IL1 Receptor II
Synonyms:	CD121b; CDw121b; IL-1R-2; IL-1RT-2; IL-1RT2; IL1R2c; IL1RB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221860 representing NM_004633 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCGCTTGTACGTGTTGGTAATGGGAGTTTCTGCCTTCACCCCTCAGCCTGCGGCACACACAGGGG
CTGCCAGAAGCTGCCGTTTCGTGGGAGGCATTACAAGCGGGAGTTCAGGCTGGAAGGGGAGCCTGTAGC
CCTGAGGTGCCCCAGGTGCCCTACTGGTTGTGGGCTCTGTGAGCCCCGCATCAACCTGACATGGCAT
AAAAATGACTCTGCTAGGACGGTCCAGGAGAAGAAGAGACACGGATGTGGGCCAGGACGGTCTGT
GGCTTCTGCCAGCCTTGCAAGGACTCTGGCACCTACGTCTGCACTACTAGAAATGCTTCTTACTGTGA
CAAAATGTCCATTGAGCTCAGAGTTTTTGAGAATACAGATGCTTTCTGCCGTTTCATCTCATACCGCAA
ATTTAACTTGTCAACCTCTGGGGTATTAGTATGCCCTGACCTGAGTGAATTCACCCGTGACAAAATG
ACGTGAAGATTCAATGGTACAAGGATTCTTCTTTGGATAAAGACAATGAGAAATTTCTAAGTGTGAG
GGGACCCTCACTTACTCGTACACGATGTGGCCCTGGAAGATGCTGGCTATTACCGCTGTGTCCTGACA
TTTGCCCATGAAGGCCAGCAATACAACATCACTAGGAGTATTGAGCTACGCATCAAGAAAAAAAAAAGAG
AGACCATTCCTGTGATCATTTCCCCCTCAAGACCATATCAGTCTCTCTGGGGTCAAGACTGACAATCCC
GTGTAAGTGTTTCTGGGAACCGGCACACCCCTTAACCACCATGCTGTGGTGGACGGCCAAATGACACCCAC
ATAGAGAGCGCCTACCCGGGAGGCGCGTGACCGAGGGCCAGCCAGGAATATTCAGAAAAATAATGAGA
ACTACATTGAAGTGCCATTGATTTTTGATCCTGTCAAGAGAGGATTTGCACATGGATTTAAATGTGT
TGTCATAAATACCCTGAGTTTTTCAGACACTACGCACCACAGTCAAGGAAGCCTCCTCCACGTTCTCTGG
GGCATTGTGCTGGCCCCACTTTCACTGGCCTTCTTGGTTTTGGGGGAATATGGATGCACAGACGGTGCA
AACACAGAACTGGAAAAGCAGATGGTCTGACTGTGCTATGGCCTCATCATCAAGACTTTCAATCCTATCC
CAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221860 representing NM_004633
 Red=Cloning site Green=Tags(s)

MLRL YVL VMGVS AFTLQ PAAHTGA ARSCRFRGRHYKREFRLEGE PVALRCPQVPYWLWASVSPRINLTWH
 KNDSARTVPGE EETRMWAQD GALWLLPALQEDSGTYVCTTRNASYCDKMSIELRVFENTDAFLPFISYPQ
 ILTLSTSGVLVCPDLSEFTRDKTDVKIQWYKDSL LLDKDNEKFLSVRGTHLLVHDVALEDAGYRCVLT
 FAHEGQQYNITRSIELRIK KKEETIPV IISPLKTI SASLGSRLTIPCKVFLGTGTPLTMLWWTANDTH
 IESAYPGGRVTEGPRQEYSENNENYIEVPLIFDPVTREDLHMDFKCVVHNTLSFQTLRTTYKEASSTFSW
 GIVLAPLSLAFLVLGGIWMHRRCKHRTGKADGLTVLWPHHQDFQSYPK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_004633.4](#)

RefSeq Size: 1484 bp

RefSeq ORF: 1197 bp

Locus ID: 7850

UniProt ID: [P27930](#)

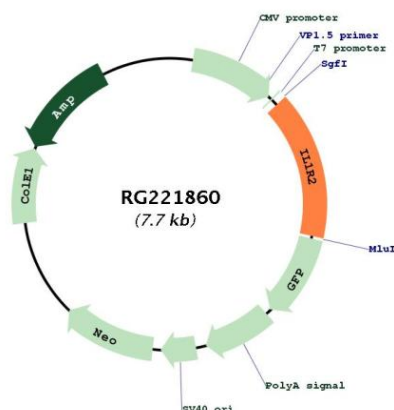
Cytogenetics: 2q11.2

Protein Families: Druggable Genome, Transmembrane

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

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 RG221860