

Product datasheet for **RG210412**

IL1 Receptor I (IL1R1) (NM_000877) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL1 Receptor I (IL1R1) (NM_000877) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL1 Receptor I
Synonyms:	CD121A; D2S1473; IL-1R-alpha; IL1R; IL1RA; P80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG210412 representing NM_000877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGTGTACTCAGACTTATTTGTTTCATAGCTCTACTGATTCTTCTCTGGAGGCTGATAAATGCA
 AGGAACGTGAAGAAAAATAATTTTAGTGCATCTGCAAATGAAATTGATGTTCCGTCCTGTCTCTTAA
 CCCAAATGAACACAAAGGCACTATAACTTGGTATAAAGATGACAGCAAGACACCTGTATCTACAGAACA
 GCCTCCAGGATTCATCAACACAAAGAGAACTTTGGTTTGTCTGCTAAGGTGGAGGATTCAGGACATT
 ACTATTGCGTGGTAAGAAATTCATCTTACTGCCTCAGAATTAATAAGTGCAAAATTTGTGGAGAATGA
 GCCTAACTTATGTTATAATGCACAAGCCATATTTAAGCAGAACTACCCGTTGCAGGAGACGGAGGACTT
 GTGTGCCCTTATATGGAGTTTTTAAAAATGAAAATAATGAGTTACCTAAATTACAGTGGTATAAGGATT
 GCAAACCTCTACTTCTTGACAATATACACTTTAGTGGAGTCAAAGATAGGCTCATCGTGATGAATGTGGC
 TGAAGCATAGAGGGAATACTTGTATGCATCCTACACATACTTGGCAAGCAATATCCTATTACC
 CCGGTAATAGAATTTTACTCTAGAGGAAAACAACCCACAAGGCTGTGATTGTGAGCCAGCTAATG
 AGACAATGGAAGTAGACTTGGGATCCCAGATACAATTGATCTGTAATGTCACCGGCCAGTTGAGTGACAT
 TGCTTACTGGAAGTGAATGGGTGAGTAATTGATGAAGATGACCCAGTGTAGGGGAAGACTATTACAGT
 GTGGAAAATCCTGCAAACAAAAGAAGGAGTACCCTCATCACAGTGCTTAATATATCGGAAATGAAAAGTA
 GATTTTATAAACATCCATTTACCTGTTTTGCCAAGAATACACATGGTATAGATGCAGCATATATCCAGTT
 AATATATCCAGTCACTAATTTCCAGAAGCACATGATTGGTATATGTGTACGTTGACAGTCATAATTGTG
 TGTCTGTTTTCATCTATAAAATCTTCAAGATTGACATTGTGCTTTGGTACAGGGATCCTGCTATGATT
 TTCTCCCAATAAAAGCTTCAGATGAAAAGACCTATGACGCATATACTGTATCCAAAGACTGTTGGGGA
 AGGGTCTACCTCTGACTGTGATATTTTTGTGTTTAAAGTCTTGCCTGAGGTCTTGAAAAACAGTGTGGA
 TATAAGCTGTTCATTTATGGAAGGGATGACTACGTTGGGGAAGACATTGTTGAGGTCATTAATGAAAACG
 TAAAGAAAAGCAGAAGACTGATTATCATTTTAGTCAGAGAAACATCAGGCTTCAGCTGGCTGGTGGTTC
 ATCTGAAGAGCAAATAGCCATGTATAATGCTCTTGTTCAGGATGGAATTAAGTTGCTCTGCTTGAGCTG
 GAGAAAATCCAAGACTATGAGAAAATGCCAGAATCGATTAAATTCATTAAGCAGAAAACATGGGGCTATCC
 GCTGGTCAGGGGACTTTACACAGGGACCACAGTCTGCAAAGACAAGGTTCTGGAAGAATGCAGGTACCA
 CATGCCAGTCCAGCGACGGTACCTTCATCTAAACACCAGTACTGTCACCAGCCACTAAGGAGAAACTG
 CAAAGAGAGGCTCACGTGCTCTCGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210412 representing NM_000877
 Red=Cloning site Green=Tags(s)

MKVLRLICFIALLISSLEADKCKEREKIIILVSSANEIDVRPCPLNPNEHKGTITWYKDDSKTPVSTEQ
 ASRIHQHKEKLWFVPAKVEDSGHYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIKQKLPVAGDGGL
 VCPYMEFFKNENNELPKLQWYKDCPLLLDNIHFSGVKDRLIVMNVAEKHRGNYTCHASYTYLQKQYPIT
 RVIEFITLEENKPTRPVIVSPANETMEVDLGSQIQLICNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYS
 VENPANKRRSTLITVLNISEIESRFYKHPFTCFKNTGIDAAYIQLIYPVTNFQKHMIGICVTLTVIIV
 CSVFIYKIDIVLWYRDSCYDFLPIKASDGKTYDAYILYPKTVGEGSTSDCDIFVFKVLPEVLEKQCG
 YKLFYGRDDYVGEDIVEVINENVKSRRLIIILVRETSGFSWLGGSSSEEQIAMYNALVQDGIKVLLLEL
 EKIQDYEKMPESIKFIKQKHGAIRWSGDFIQGPQSAKTRFWKNVRYHMPVQRRSPSSKHQLLSPATKEKL
 QREAHVPLG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_000877

ORF Size: 1707 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_000877.4](#)

RefSeq Size: 4909 bp

RefSeq ORF: 1710 bp

Locus ID: 3554

UniProt ID: [P14778](#)

Cytogenetics: 2q11.2-q12.1

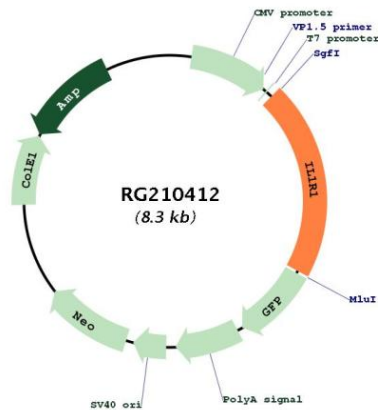
Domains: TIR, IG

Protein Families: Druggable Genome, Transmembrane

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

Gene Summary: This gene encodes a cytokine receptor that belongs to the interleukin-1 receptor family. The encoded protein is a receptor for interleukin-1 alpha, interleukin-1 beta, and interleukin-1 receptor antagonist. It is an important mediator involved in many cytokine-induced immune and inflammatory responses. This gene is located in a cluster of related cytokine receptor genes on chromosome 2q12. [provided by RefSeq, Dec 2013]

Product images:



Circular map for RG210412