

Product datasheet for **RC210168**

IL18R1 (NM_003855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL18R1 (NM_003855) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL18R1
Synonyms:	CD218a; CDw218a; IL-1Rrp; IL-18R-alpha; IL-18Ralpha; IL1RRP; IL18RA; IL18Ralpha2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210168 representing NM_003855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTGTAGAGAATTACCTTGACCCTTTGGTGCTTATATCTGTAAGCACTGCAGAATCTTGACTT
 CACGTCCCACATTACTGTGGTTGAAGGGGAACCTTTCTATCTGAAACATTGCTCGTGTTCACTTGACACA
 TGAGATTGAAACAACCACCAAAAAGCTGGTACAAAAGCAGTGGATCACAGGAACATGTGGACTGAACCCA
 AGGAGTTCCTCGAGAATTGCTTTGCATGATTGTGTTTTGGAGTTTTGGCCAGTTGAGTTGAATGACACAG
 GATCTTACTTTTTCCAAATGAAAAATTACTCAGAAATGGAAATTAATGTCATCAGAAGAAATAACA
 CAGCTGTTTCACTGAAAGACAAGTAAGTAAATTTGTGGAAGTAAAAATTTTTTTCAGATAACCTGT
 GAAAACAGTTACTATCAAACTGGTCAACAGCACATCATTGTATAAGAACTGAAAAAGCTACTACTGG
 AGAACAAATAAAAACCAACGATAAAGAAGAACGCCGAGTTTGAAGATCAGGGGTATTACTCTGCGTGCA
 TTTCTTCATCATAATGGAAAATTTTAAATACACAAAACCTCAATATAACAATAGTGAAGATCGC
 AGTAATATAGTTCGGTCTTCTTGGACCAAAGCTTAACCATGTTGCAGTGGAAATAGGAAAAACGTAA
 GGCTCAACTGCTCTGCTTTGCTGAATGAAGAGGATGTAATTTATTGGATGTTCCGGGGAAGAAAATGGATC
 GGATCCTAATATACATGAAGAGAAAAGAAATGAGAATTATGACTCCAGAAGGCAAATGGCATGCTTAAAA
 GTATTGAGAATTGAAAATATTGGTGAAAGCAATCTAAATGTTTTATATAATTGCACTGTGGCCAGCACGG
 GAGGCACAGACACAAAAGCTTCATCTTGGTGAGAAAAGCAGACATGGCTGATATCCCAGGCCACGTCTT
 CACAAGAGGAATGATCATAGCTGTTTTGATCTTGGTGGCAGTAGTGTGCCTAGTACTGTGTGTGTCATT
 TATAGATGCTTTTGTGCTTACCTAAAAGAATGCCGACCTGAAAATGGAGAGGACACACCTTTGCTGT
 GGAGATTTTGGCCAGGGTGGAGAAAACATTTTGGGTATAAGTTATGCATATTTGAAAGGGATGTAGTG
 CCTGGAGGAGCTGTTGTTGATGAAATCCACTCACTGATAGAGAAAAGCCGAAGACTAATCATTGTCTAA
 GAAAAAGTTATATGTCTAATGAGGTGAGGTATGAACTTAAAAGTGGACTCCATGAAGCATTGGTGGAAA
 AAAAAATAAATAATCTTAATTGAATTTACACCTGTTACTGACTTACATTCTTGCCCAATCACTAAAG
 CTTTTGAAATCTCACAGATTCTGAAGTGAAGGCCGATAAATCTCTTTCTATAACTCAAGTTCTGGA
 AGAACCTCTTTACTTAATGCCTGCAAAAACAGTCAAGCCAGGTAGAGACGAACCGAAGCTTGCCTGT
 TCTTTCCGAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210168 representing NM_003855
 Red=Cloning site Green=Tags(s)

MNCRELPLTLWVLISVSTAESCSTRPHITVVEGEPFYLKHCSCLAHEIETTTKSWYKSSGSQEHVELNP
 RSSSRIALHDCVLEFWPVELNDTGSYFFQMKNYQKWKLVNIRRKNHSCFTRQVTSKIVEVKFFQITC
 ENSYYQTLVNSTSLYKNCKKLLLENKNPTIKKNAEFEDQGYSCVHFLHHNGKLFNITKTFNITIVEDR
 SNIVPVLLGPKLNHVAVELGKNVRLNCSALLNEEDVIYWMFGEENGSDPNIHEEKEMRIMTPEGKWHASK
 VLRIENIGESNLVLYNCTVASTGGTDKSFILVRKADMADIPGHVFTRGMIIAVLILVAVVCLVTVCVI
 YRVDLVLFYRHLTRRDETLTDGKTYDAFVSYLKECRPENGEHTFAVEILPRVLEKHFYKLCIFERDVV
 PGGAVVDEIHSLEKSRRLIIVLSKSYMSNEVRYELESGLHEALVERKIKIILIEFPTVDTFTFLPQSLK
 LLKSHRVLKWKADKSLSYNSRFWKNLLYLMPAKTVKPRDEPEVLPVLSSES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8114_c08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_003855

ORF Size: 1623 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_003855.5](#)
RefSeq Size: 3522 bp

RefSeq ORF: 1626 bp

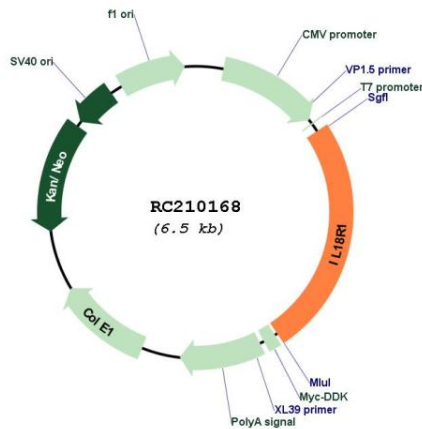
Locus ID: 8809

UniProt ID: [Q13478](#)

Cytogenetics: 2q12.1
Domains: TIR, IG
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Cytokine-cytokine receptor interaction
MW: 62.3 kDa

Gene Summary: The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family. This receptor specifically binds interleukin 18 (IL18), and is essential for IL18 mediated signal transduction. IFN-alpha and IL12 are reported to induce the expression of this receptor in NK and T cells. This gene along with four other members of the interleukin 1 receptor family, including IL1R2, IL1R1, ILRL2 (IL-1Rrp2), and IL1RL1 (T1/ST2), form a gene cluster on chromosome 2q. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC210168