

## Product datasheet for **SC117718**

### **IL18R1 (NM\_003855) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IL18R1 (NM_003855) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL18R1
Synonyms:	CD218a; CDw218a; IL-1Rrp; IL-18R-alpha; IL-18Ralpha; IL1RRP; IL18RA; IL18Ralpha2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117718 sequence for NM\_003855 edited (data generated by NextGen Sequencing)

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ATGAATTGTAGAGAATTACCCCTTGACCCTTTGGGTGCTTATATCTGTAAGCACTGCAGAA
TCTTGTACTTCACGTCCCCACATTACTGTGGTTGAAGGGGAACCTTTCTATCTGAAACAT
TGCTCGTGTTCACCTTGCACATGAGATTGAAACAACCACCAAAAGCTGGTACAAAAGCAGT
GGATCACAGGAACATGTGGAGCTGAACCCAAGGAGTTCCTCGAGAATTGCTTTGCATGAT
TGTGTTTTGGAGTTTTGGCCAGTTGAGTTGAATGACACAGGATCTTACTTTTTCCAAATG
AAAAATTATACTCAGAAATGAAAATTAATGTCATCAGAAGAAATAAACACAGCTTTTC
ACTGAAAGACAAGTAACTAGTAAAATTGTGGAAGTTAAAAATTTTTTCAGATAACCTGT
GAAAACAGTTACTATCAAACTGGTCAACAGCACATCATTGTATAAGAACTGTA AAAAG
CTACTACTGGAGAACAATAAAAACCAACGATAAAGAAGAAGCCGAGTTTGAAGATCAG
GGGTATTACTCCTGCGTGCATTTCTTCATCATAATGGAAAATTTAATATCACCAA
ACCTTCAATATAACAATAGTGAAGATCGCAGTAATATAGTTCGGTCTCTTGGACCA
AAGCTTAACCATGTTGCAGTGAATTAGGAAAAACGTAAGGCTCAACTGCTCTGCTTTG
CTGAATGAAGAGGATGTAATTTATTGGATGTTTGGGAAGAAAATGGATCGGATCCTAAT
ATACATGAAGAGAAAATAAGAAATTAGACTCCAGAAGGCAAAATGGCATGCTTCAAAA
GTATTGAGAATTGAAAATATTGGTGAAAGCAATCTAAATGTTTTATATAATTGCACTGTG
GCCAGCACGGGAGGCACAGACACCAAAAGCTTCATCTTGGTGAGAAAAGNNGACATGGCT
GATATCCCAGGCCACGTCTTACAAGAGGAATGATCATAGCTGTTTTGATCTTGGTGGA
GTAGTGTGCCTAGTGACTGTGTGTGTCATTTATAGAGTTGACTTGGTCTATTTTATAGA
CATTTAACGAGAAGAGATGAAACATTAACAGATGGAAAAACATATGATGCTTTTGTGTCT
TACCTAAAAGAATGCCGACCTGAAAATGGAGAGGAGCACACCTTTGCTGTGGAGATTTG
CCCAGGGTGTGGAGAAAACATTTTGGGTATAAGTTATGCATATTTGAAAGGGATGATG
CCTGGAGGAGCTGTTGTTGATGAAATCCACTCACTGATAGAGAAAAGCCGAAGACTAATC
ATTGTCCTAAGTAAAAGTTATATGTCTAATGAGGTCAGGTATGAACTTGAAGTGGAAGT
CATGAAGCATTGGTGAAAGAAAATTAATAATCTTAATTGAATTTACACCTGTTACT
GACTTCACATTCTTGCCCAATCACTAAAGCTTTTGAATCTCACAGAGTTCTGAAGTGG
AAGGCCGATAAATCTCTTTCTTAACCTCAAGGTTCTGGAAGAACCTTCTTACTTAATG
CCTGCAAAAACAGTCAAGCCAGGTAGAGACGAACCGGAAGTCTTGCTGTTCTTTCCGAG
TCTTAA
    
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Clone variation with respect to NM\_003855.2  
 753 c=>t;950 c=>n;951 a=>n

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003855 unedited

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GCGGTTTCAGATTTTGTATACGACTCACTATAGGCGGCCGNAATTCGCACCAGGGCCCA
CGCCGTCCGCGGAAAGGGCAAGGCGCTGGGTTTTCCAGCAGCAACCTTTGGACCCCGCG
ATCCAGTAGCTCCGGTAACTCCACGCGGGCGTCTGGGTGGAGGAGCCGTCCTGGAGCA
CGGCTGCGAGGAGCACCCGACCGGAGGGTCCCCAGACCGGGACCTCCGAGTCAGGGAGG
ATTCTACGCCAGGGAGCGCCCCAGACTGAGAGCGCCCCAGACCGCTACACTCCCAGACCC
GGAGCTTCGCCCCACCGCGGGCAGTGCCACCTGCAGCCTCCACCGCCGGGTCAGGAGG
CGGAGATCGTGTCTTCTACCTACTTTCTGAACTTGGCCTCCGCAGTCGCGACCTGGCGT
GAAGGAGGAGCTGCCGCCCCGCCCCAGCCTCGGGGACGCCTCTCTGAAGAGAAGCCATT
TGAAGCAGAATCCAAACCATGAATTGTAGAGAATTACCTTGACCCTTTGGGTGCTTATA
TCTGTAAGCACTGCAGAATCTTGTACTTACGTCCCCACATTACTGTGGTTGAAGGGGAA
CCTTTCTATCTGAAACATTGCTCGTGTCACTTGACATGAGATTGAAACAACCACAAA
AGCTGGTACAAAAGCAGTGGATCACAGGAACATGTGGAGCTGAACCAAGGAGTTCCTCG
AGAATTGCTTTGCATGATTGTGTTTTGGAGTTTTGGCCAGTTGAGTTGAATGACACAGGA
TCTTACTTTTTCCAAATGAAAATTAATACTCAGAAATGAAATTAATGTCATCAGAAAGA
ATAAACACAGCTGTTTCACTGAAAGACAAGTAACTAGTAAAATTTGTGGGAAGTTAAA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003855 unedited CTCTGAACCCGCGGCCGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTTTGTAAAGTGAAA AAGAGTCATGATATTTCAAAAATAAAGGCATTAGACTAATGGTTCATTAATGTATTTCAA CGTGTTTTATGCATTTTAAAACACACATCTAATGTATACATTTAAGACATTTAACTTGAA ATGCATTTAATGCAAAATATATTTCAAGTATTTTAAAGCAAGTATAATAAAGAGAAAAG CAAAATCATTCTATGTATTAGAGACTATGCAATAGCAATGAAATCTATTTTGATTATATA TGTTCACTAACATGTTTTACACATAAAAATATGAGCTATTAATTAATTTACTCTT TTTAGTCATCCAGTTGGTACACAAAATTGTAAGCACTACAAACATTAATCACATTCTTA CACTGACAATCTCACTCTTTTTGGTTTTGAGTAAATCTACTACACCCATTTGAAACAA TCTCTGCTTTAACTTTGTAGAACATTCATGTTGCTCCACATGTTCTAACCAGCCTTC CGAACTGACGGTTTCACAGTCACCTGGTGATTTTCTGAATAGCTATTCTCTTGATAACC TCAAGAAGGCTCCCTTTGTTGCGCTCCCTATTGGGGAGCCAAACCTGTGCGTTCGCCCG CCCCACCTAGCCGTACCCCATCAATCACAAATGCTCCGGCACTCGCAGTCCCGTCCGT GTATTGGCTCGCGGGTTCGGCGGGCCCTCCGCTGCGTCCGCTATCTGTCCGGCCTCCAT GCCACCCGCCGCTCCGTTCTCGTCCGCCGGCCTTCCCGTATGTCCATTCACCGTTNCCA CCTTTTCTGATCGCCCCGCTCCCCCCTGCTCGCTCCCATCGACTCCGCCCCCGCTC TCCCCGCTGATGCGTCCGCTCCCGCCCTTCTCTCCCTTTTTCGCTCCCTCATTCTT CTTTCCCTCCCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003855
<b>Insert Size:</b>	3950 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_003855.2</a></u> , <u><a href="#">NP_003846.1</a></u>
<b>RefSeq Size:</b>	3522 bp
<b>RefSeq ORF:</b>	1626 bp
<b>Locus ID:</b>	8809
<b>UniProt ID:</b>	<u><a href="#">Q13478</a></u>
<b>Cytogenetics:</b>	2q12.1
<b>Domains:</b>	TIR, IG

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction

**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]  
Transcript Variant: This variant (1) encodes the longer isoform (1).