

## Product datasheet for **SC101372**

### IL28 Receptor alpha (IFNLR1) (AK097877) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL28 Receptor alpha (IFNLR1) (AK097877) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL28 Receptor alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101372 sequence for AK097877 edited (data generated by NextGen Sequencing)

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ATGTCAGTGTTCCTTACAGCTCAAATTTGTATAGTTGTTTTAAAATGCGGTCTCTTTCTT
CTTCCCTGGTACTTTTTCTTTCTGTCTACTGAAGTTAGTTCTTATACATGGTCTTATA
TTTTGGCTGTCTTTTTTCCCTAGGAACATTCATACAGGTTGAGTGTTCCTTATCTGAAA
TGCTTGGGACTGGAAGTGTTTTTGATTTGGAGTTGGAATACTTTTTTTTTTTGGAGAT
AGTGTCTTACTCTGTTGCCAGGCTGGAGTGCAATGGCGCAATCTTGGCTCGCTGCAAC
CTCCGCCTCCCGGTACAAGCGATTCTCCTGTTTCAGCCTCCAAGTAGCTCGGATTACA
GGCATGCGCCACCACGCCTGGCTAATTTTTTTGTATTTAGTAGAGATGGGTTTTCCACAT
GTTAGCCAGGCTGGTTGTGAACCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAA
AATGCCGGGATTACAGGTGGGCACCACCATGCCAGCCGGATTTTGAATATTTTCATAA
```

Clone variation with respect to AK097877.1  
143 g=>a;180 g=>a;213 t=>g



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AK097877 unedited</p> <pre> TTCAAATATTTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCATGCC TGGATAAATAAAATTGGTAGGAATGTTTTCTTGCCATTATATTTAACGTTTCTTCTTTTT CCTTGACAAATCTTGATAAGTTTTTTTTATATTAGTTTTATTTTCTAGAAAACGCTTATG AATTTCTCCCATTTGCTCTAGCATGCTTATAGAAAATGTCAGTGTTTCTTACAGCTCAAA TTTGTATAGTTGTTTTAAATGCGGTCTCTTTCTTCTCCCTGGTACTTTTTTCTTTCT GTCTACTGAAGTTAGTTCTTATACATGGTCTTATATTTTGGCTGTCTTTTTTCCCTAGG AACATTCATACAGTTGAGTGTTCTTATCTGAAATGCTTGGGACTGGAAGTGTTTTTGA TTTTGGAGTTTGAATACTTTTTTTTTTTTTGGAGATAGTGTTTTACTCTTGTTGCCCAGG CTGGAGTGCAATGGCGCAATCTTGGCTCGCTGCAACCTCCGCCTCCCGGTACAAGCGAT TCTCTGTTTTAGCCTCCCAAGTAGCTCGGATTACAGGCATGCGCCACCACGCCTGGCTA ATTTTTTGTATTTAGTAGAGATGGGTTTTACCATTGTTAGCCAGGCTGGTTGTGAACTC CTGACCTCAGGTGATCCACCTGCCTTGGCTCCCAAAATGCCGGGATTACAGGTGGGCAC CACCATGCCAGCCGGATTTTGAATATTTTATAACACTTACTGGTGAACCCCTAAT CTGNAATCCTAAATCTAAAATGCTTCCCAAATGAAACTTTNTGAGCACCAGTATGATG CCCCAGTGGAAAAATCCACCCGACCTCATGTGATGAGTNCCAAGTGTGATGCACA AAATTATTTAAAAATATGCATAAAATGACCTTTCAGCTATGATAGAAGGCGTCTATGAAT ATAAGNGAATTCGTT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AK097877 unedited</p> <pre> CTTGTACGCGGCCGCTTCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTT TCCGGTTCTGTAGCCAGGCTGAAGTGCAGTGGTGCACCCAGCCACTGCAACCTCCA CCTCCCGGTTCAAGCAATCTCCTACCTCAGCCTCAAAGTAGTAGGATTACAGGTGT GCACCACCCCTGGCTAATTTTTTTTTTTTTTTAGTAGAGGCGAACTTTTACCATTGTTG CCAGGCTGGTCTCAAACCCCGACCACAAGTGATCATCCCGACATGGCCTCCCAAAGTGC TGGTTTACAGGTGTCAGCTACCGTGCCAGCCTAAACCTATTATTTTCTATTAATAAATA ATGTTTTTCAACTCTATATGATCGCTTCCCAAGACGAAAGACCCGACCCCTAACCCAGAA AGACAAGCCACGAGCAGGAGCCCGCGCAATTACTGAAACAAAAAGAACCCCGGCCTG GGCGCAACAAAAAACGCACCTCATTCCCAAATTTATCAACACCAAACTCCCGTGAT TAAACACAACATTTAATAAAAAATACCCATAATAAATTACCCATAAATAATTTCTTACTTG CTCACTTGTCAAACATTCACATTCTACGAGAACGCCACAGAAAATATCACTTATACAT GTGAACAACCCACATACATTAATATGAAAGAAGCTATTGTTAAATATACGAACCGAAATA CGTTTTATATTCTAATCGACCAAAACAACATGCTACCCACCGTACCCCAAAAAGCTA TATGCACGATAACCATAAGAAACAATATACAAAATGCACAAAAAACACACCGTCTACAT TACCCACACACTCGACAAGATGCACGATTCCAAACCACCGACAAAGAAGAAACAACACT AATCAACAAGAAAAAGCAGAACTAACATTTCTAAGCAACAAGCCAACCAATATATAAC GCATTCACACACCCGACAACGCGATCACACTGAAAACCTAACACAAGCAGGAGTCCCC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK097877
<b>Insert Size:</b>	2000 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).

**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:** [AK097877.1](#), [BAC05191.1](#)

**RefSeq Size:** 1919 bp

**RefSeq ORF:** 540 bp

**Locus ID:** 163702

**Cytogenetics:** 1p36.11

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

**Gene Summary:** The protein encoded by this gene belongs to the class II cytokine receptor family. This protein forms a receptor complex with interleukin 10 receptor, beta (IL10RB). The receptor complex has been shown to interact with three closely related cytokines, including interleukin 28A (IL28A), interleukin 28B (IL28B), and interleukin 29 (IL29). The expression of all three cytokines can be induced by viral infection. The cells overexpressing this protein have been found to have enhanced responses to IL28A and IL29, but decreased response to IL28B. Three alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]