

Product datasheet for **SC123367**

IL21 Receptor (IL21R) (NM_181078) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL21 Receptor (IL21R) (NM_181078) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL21 Receptor
Synonyms:	CD360; IMD56; NILR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_181078 edited
 CCCCCAGAAGCCCATCAGACTGCCCCAGCACACGGAATGGATTCTGAGAAAGAAGCCG
 AAACAGAAGGCCCGTGGGAGTCAGCATGCCCGTGGCTGGGCCGCCCTTGCTCCTGCT
 GCTGCTCCAGGGAGGCTGGGGCTGCCCCGACCTCGTCTGCTACACCGATTACCTCCAGAC
 GGTTCATCTGCATCCTGGAATGTGGAACCTCCACCCAGCACGCTCACCTTACCTGGCA
 AGACCAGTATGAAGAGCTGAAGGACGAGGCCACCTCCTGCAGCCTCCACAGGTGCGCCCA
 CAATGCCACGCATGCCACCTACACCTGCCACATGGATGTATTCCACTTCATGGCCGACGA
 CTTTTTCAGTGTCAACATCACAGACCAGTCTGGCAACTACTCCAGGAGTGTGGCAGCTT
 TCTCCTGGCTGAGAGCATCAAGCCGGCTCCCCCTTCAACGTGACTGTGACCTTCTCAGG
 ACAGTATAATATCTCCTGGCGCTCAGATTACGAAGACCCTGCCTTCTACATGCTGAAGGG
 CAAGCTTCAGTATGAGCTGCAGTACAGGAACCGGGGAGACCCCTGGGCTGTGAGTCCGAG
 GAGAAAGCTGATCTCAGTGGACTCAAGAAGTGTCTCCCTCCTCCCTGGAGTCCGCAA
 AGACTCGAGCTATGAGCTGCAGGTGCGGGCAGGGCCCATGCCTGGCTCCTCTACAGGG
 GACCTGGAGTGAATGGAGTGACCCGGTCACTTTTACAGCCAGTCAGAGGAGTTAAAGGA
 AGGCTGGAACCCCTCACCTGCTGCTTCTCCTCCTGCTTGTGATAGTCTTCAATTCCTGCCT
 CTGGAGCCTGAAGACCCATCCATTGTGGAGGCTATGGAAGAAGATATGGGCCGTCGCCAG
 CCCTGAGCGGTTCTTTCATGCCCTGTACAAGGGCTGCAGCGGAGACTTCAAGAAATGGGT
 GGGTGCACCCCTTCACTGGCTCCAGCCTGGAGCTGGGACCCTGGAGCCAGAGGTGCCCTC
 CACCCTGGAGGTGTACAGCTGCCACCCACCGAGCCCGCCAAGAGGCTGCAGCTCAC
 GGAGCTACAAGAACCAGCAGAGCTGGTGGAGTCTGACGGTGTGCCAAGCCAGCTTCTG
 GCCGACAGCCAGAACTCGGGGGCTCAGCTTACAGTGAGGAGAGGGATCGGCCATACGG
 CCTGGTGTCCATTGACACAGTACTGTGCTAGATGCAGAGGGGCCATGCACCTGGCCCTG
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 AGGCCTAGAGGACCCACTCTGGATGCAGGGACCACAGTCTGTCTGTGGCTGTGTCTC
 AGCTGGCAGCCCTGGGCTAGGAGGGCCCTGGGAAGCCTCCTGGACAGACTAAAGCCACC
 CCTTGCAGATGGGGAGGACTGGGCTGGGGGACTGCCCTGGGGTGGCCGGTCACTGGAGG
 GGTCTCAGAGAGTGAGGGGGCTCACCCCTGGCCGGCCTGGATATGGACACGTTTGACAG



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TGGCTTTGTGGGCTCTGACTGCAGCAGCCCTGTGGAGTGTGACTTCACCAGCCCCGGGA
CGAAGGACCCCCCGGAGCTACCTCCGCCAGTGGGTGGTCATTCTCCGCCACTTTCGAG
CCCTGGACCCAGGCCAGCTAATGAGGCTGACTGGATGTCAGAGCTGGCCAGGCCACTG
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TCCCCACCAACCAAGATTTCTTTTTCTAACTTCTGCTACTAAGTTTTTAAAAATTCCTT
TATGCACCAAGAGATATTTATTAACCAATTACGTAGCAGGCCATGGCTCATGGGAC
CCACCCCGTGGCACTCATGGAGGGGGCTGCAGGTTGGAATATGCAGTGTGCTCCGGC
CACACATCCTGCTGGGCCCTACCCTGCCCAATTCAATCCTGCCAATAAATCCTGTCT
TATTTGTTTCATCCTGGAGAATTGAAGGGAGGTCAAGTTGTTTGTCAATGATTTGTGAG
AACCTGTTGAAATGTGAATTAAGAAGCTAAGAAAATAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_181078 unedited
NGGGAAAGTTCACATTTGTATACGACTCACTATAGGCGGCCGNAATTCGCACGAGGCC
CCCATAAGCCCATCACTACTGCCCCAGCACACGGAATGGATTTCTGAGAAAGAAGCCGAA
ACAGAAGGCCCGTGGGAGTCAGCATGCCGCGTGGCTGGGCGCCCTTGCTCCTGCTGC
TGCTCCAGGGAGGCTGGGGCTGCCCGACCTCGTCTGCTACACCGATTACCTCCAGACGG
TCATCTGCATCCTGGAATGTGGAACCTCCACCCAGCAGCTCACCCCTACCTGGAAG
ACCAGTATGAAGAGCTGAAGGACGAGGCCACCTCCTGCAGCCTCCACAGGTGGCCACACA
ATGCCACGCATGCCACCTACACCTGCCACATGGATGTATTCCACTTATGGCCGACGACA
TTTTCAGTGTCAACATCACAGACCAGTCTGGCACTACTCCAGGAGTGTGGCAGCTTTC
TCCTGGCTGAGAGCATCAAGCCGGCTCCCCCTTCAACGTGACTGTGACCTTCTCAGGAC
AGTATAATATCTCTGGCGCTCAGATTACGAAGACCCTGCCTTCTACATGCTGAAGGCA
AGCTTCAGTATGAGCTGCAGTACAGGAACCGGGAGACCCTGGGCTGTGAGTCCGAGGA
GAAAGCTGATCTCAGTGGACTCAAGAAGTGTCTCCCTCCTCCCTCGAGTTCGCGANAG
ACTCGAGCTATGAGCTGCAGGTGCGGGCAGGGCCATGCCTGGCTCCTCCTACCAGGGAC
CTGGAGTGAATGGAGTGACCCGGTCACTTTTACAGACCAGTCAAGGAGTAAGGAAGGCTG
NACCCTCACTGCTGCTTCTCT
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Restriction Sites:

Please inquire

ACCN:

NM_181078

Insert Size:

3014 bp

OTI Disclaimer:

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).

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:	<ol style="list-style-type: none">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:	<u>NM_181078.1</u> , <u>NP_851564.1</u>
RefSeq Size:	3361 bp
RefSeq ORF:	1617 bp
Locus ID:	50615
UniProt ID:	<u>Q9HBE5</u>
Cytogenetics:	16p12.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin production. Three alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2010]</p> <p>Transcript Variant: This variant (2) encodes the dominant isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>