

Product datasheet for **SC307245**

IL21 Receptor (IL21R) (NM_181079) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL21 Receptor (IL21R) (NM_181079) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL21R
Synonyms:	CD360; IMD56; NILR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC307245 representing NM_181079.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGCTGTCGCTGCATCTTTCTCATGAAGCACGGGGAACGGGTCGGATGGCCCGTGGGAGTCAGCATG
CCGGCTGGTGGCCGCCCTTGTCTGCTGCTCCAGGGAGGCTGGGGCTGCCCCGACCTCGTC
TGCTACACCGATTACCTCCAGACGGTCATCTGCATCCTGGAAATGTGGAACCTCCACCCAGCACGCTC
ACCCTTACCTGGCAAGACCAGTATGAAGAGCTGAAGGACGAGGCCACCTCCTGCAGCCTCCACAGGTCG
GCCACAATGCCACGCATGCCACCTACACCTGCCACATGGATGTATTCCACTTCATGGCCGACGACATT
TTCAGTGTCAACATCACAGACCAGTCTGGCAACTACTCCAGGAGTGTGGCAGCTTTCTCCTGGCTGAG
AGCATCAAGCCGGCTCCCCCTTCAACGTGACTGTGACCTTCTCAGGACAGTATAATATCTCCTGGCGC
TCAGATTACGAAGACCCTGCCTTCTACATGCTGAAGGGCAAGCTTCAGTATGAGCTGCAGTACAGGAAC
CGGGGAGACCCCTGGGCTGTGAGTCCGAGGAGAAAGCTGATCTCAGTGGACTCAAGAAGTGTCTCCCTC
CTCCCCCTGGAGTTCGCAAGACTCGAGCTATGAGCTGCAGGTGCGGGCAGGGCCCATGCCTGGCTCC
TCCTACCAGGGGACCTGGAGTGAATGGAGTGACCCGGTCATCTTTCAGACCCAGTCAGAGGAGTTAAG
GAAGGCTGGAACCCCTCACCTGCTGCTTCTCCTCCTGCTTGTGCATAGTCTTCATTCCCTGCCTTCTGGAGC
CTGAAGACCCATCCATTGTGGAGGCTATGGAAGAAGATATGGGCCGTCCCAGCCCTGAGCGGTTCTTC
ATGCCCTGTACAAGGGCTGCAGCGGAGACTTCAAGAAATGGGTGGTGCACCCTTCACTGGCTCCAGC
CTGGAGCTGGGACCCTGGAGCCCAGAGGTGCCCTCCACCTGGAGGTGTACAGCTGCCACCCACCACGG
AGCCCCGCCAAGAGGCTGCAGCTCACGGAGCTACAAGAACCAGCAGAGCTGGTGGAGTCTGACGGTGTG
CCCAAGCCAGCTTCTGGCCGACAGCCAGAACTCGGGGGGCTCAGCTTACAGTGAGGAGAGGGATCGG
CCATACGGCCTGGTGTCCATTGACACAGTACTGTGCTAGATGCAGAGGGGCCATGCACCTGGCCCTGC
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GACCCACTCTTGATGCAGGGACCACAGTCTGTCTGTGGCTGTGTCTCAGCTGGCAGCCCTGGGCTA
GGAGGGCCCTGGGAAGCCTCCTGGACAGACTAAAGCCACCCCTTGCAGATGGGGAGGACTGGGCTGGG
GGACTGCCCTGGGTGGCCGGTACCTGGAGGGTCTCAGAGAGTGAGGCGGGCTCACCCCTGGCCGGC
CTGGATATGGACACGTTTGACAGTGGCTTTGTGGGCTCTGACTGCAGCAGCCCTGTGGAGTGTGACTTC
ACCAGCCCCGGGACGAAGGACCCCGGAGCTACCTCCGCCAGTGGTGGTATTCTCCGCCACTT
TCGAGCCCTGGACCCAGGCCAGCTAA
ACGGGTACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_181079

Insert Size: 1683 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_181079.4](#)

RefSeq Size: 5006 bp

RefSeq ORF: 1683 bp

Locus ID: 50615

UniProt ID: [Q9HBE5](#)

Cytogenetics: 16p12.1

Protein Families: Druggable Genome, Transmembrane

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

MW: 61.6 kDa

Gene Summary: 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] Transcript Variant: This variant (3) has an additional exon in the 5' region, resulting in an upstream AUG start codon, as compared to variant 1. The resulting isoform (2) has a longer N-terminus. 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.