

Product datasheet for **SC303141**

IL7R alpha (IL7R) (NM_002185) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL7R alpha (IL7R) (NM_002185) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL7R alpha
Synonyms:	CD127; CDW127; IL-7R-alpha; IL7RA; ILRA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002185 edited
 CCTCCCTCCCTTCTTACTCTCATTTCATACACTGGCTCACACATCTACTCT
 CTCTCTATCTCTCAGAATGACAATTCTAGGTACAACCTTTGGCATGGTTTTTCTT
 TACTTCAAGTCGTTTCTGGAGAAAGTGGCTATGCTCAAAATGGAGACTTGGAAAGATGCAG
 AACTGGATGACTACTCATTCTCATGCTATAGCCAGTTGGAAGTGAATGGATCGCAGCACT
 CACTGACCTGTGCTTTTGGAGACCCAGATGTCAACATCACCAATCTGGAATTTGAAATAT
 GTGGGGCCCTCGTGGAGTAAAGTGCCTGAATTTGAGAAACTACAAGAGATATATTTCA
 TCGAGACAAAGAAATTCTTACTGATTGGAAAGAGCAATATATGTGTGAAGGTTGGAGAAA
 AGAGTCTAACCTGCAAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTTTTG
 ACCTGAGTGTCTATCGGGAAGGAGCCAATGACTTTGTGGTACATTTAATACATCAC
 ACTTGCAAAAGAAGTATGTAAGTTTAAATGCACGATGTAGCTTACCGCCAGGAAAAGG
 ATGAAAACAAATGGACGCATGTGAATTTATCCAGCACAAAGCTGACACTCCTGCAGAGAA
 AGCTCAAACCGCAGCAATGTATGAGATTAAGTTCGATCCATCCCTGATCACTATTTTA
 AAGGCTTCTGGAGTGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATAATA
 GCTCAGGGGAGATGGATCCTATCTTACTAACCATCAGCATTTTGAGTTTTTCTCTGTGCG
 CTCTGTTGGTCATCTGGCCTGTGTGTTATGGAAGAAAGGATTAAAGCCTATCGATGGC
 CCAAGTCTCCCGATCATAGAAGACTCTGGAACATCTTTGTAAGAAACCAAGAAAAAATT
 TAAATGTGAGTTTCAATCCTGAAAGTTTCTGGACTGCCAGATTCATAGGGTGGATGACA
 TTCAAGCTAGAGATGAAGTGAAGGTTTCTGCAAGATACGTTTCTCAGCAACTAGAAG
 AATCTGAGAAGCAGAGGCTTGGAGGGATGTGCAGAGCCCAACTGCCATCTGAGGATG
 TAGTCATCACTCCAGAAAGCTTTGGAAGAGATTCATCCCTCACATGCCTGGCTGGGAATG
 TCAGTGCATGTGACGCCCTATTCTCCTCTTCCAGGTCCTAGACTGCAGGGAGAGTG
 GCAAGAATGGCCCTCATGTGTACCAGGACCTCCTGCTTAGCCTTGGGACTACAAACAGCA
 CGCTGCCCCCTCATTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTCAGG
 GTCAGCCATTCTTACTTCCCTGGGATCAAATCAAGAAGAGCATATGTACCATGTCCA
 GCTTCTACAAAACCAAGTGAAGTGAAGAAACCCAGACTGAACTTACCGTGAAGGACAAA
 GATGATTTAAAGGGAAGTCTAGAGTTCTAGTCTCCCTCACAGCACAGAGAAGACAAAA
 TTAGCAAAACCCACTACACAGTCTGCAAGATTCTGAAACATTGCTTTGACCACTCTTCC
 TGAGTTCAAGTGGCACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATTTGGT
 CAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002185 unedited
 CGTCATTATTGTATACGACTCATATAGGCGGCCGCGNATTCGCCCTTCTCCCTCCCTTC
 CTCTTACTCTCATTATTCATACACTGGCTCACACATCTACTCTCTCTCTATCTC
 TCTCAGAATGACAATTCTAGGTACAACCTTTGGCATGGTTTTTCTTACTTCAAGTCGT
 TTCTGGAGAAAGTGGCTATGCTCAAAATGGAGACTTGGAAAGATGCAGAACTGGATGACTA
 CTCATTCTCATGCTATAGCCAGTTGGAAGTGAATGGATCGCAGCACTCACTGACCTGTGC
 TTTTGGAGACCCAGATGTCAACATCACCAATCTGGAATTTGAAATATGTGGGGCCCTCGT
 GGAGGTAAGTGCCTGAATTTGAGAAACTACAAGAGATATATTTTCATCGAGACAAAGAA
 ATTCTTACTGATTGGAAGAGCAATATATGTGTGAAGGTTGGAGAAAAGAGTCTAACCTG
 CAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTTTTGACCTGAGTGTGCT
 CTATCGGGAAGGAGCCAATGACTTTGTGGTACATTTAATACATCACACTTGCAAAAGAA
 GTATGTAAAAGTTTTAATGCACGATGTAGCTTACCGCCAGGAAAAGGATGAAAACAAATG
 GACGCATGTGAATTTATCCAGCACAAAGCTGACACTCCTGCAGAGAAAGCTCCAACNCG
 CAGCATGTATGAGATTAAGTTCGATCCATCCCTGATCACTATTTTTAAAGGCTTCTGGA
 GTGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATATC

3' Read Nucleotide Sequence:	>Forward primer walk for NM_002185 unedited CACTATCTNAGGTGGNTGACATTCAAGCTAGNANATGAAGTGGAAAGTTTTCTGCAAGAAC GTTTCCTCAGCAACTAGAAGAATCTGAGAAGCAGAGGCTTGGAGGGGATGTGCAGAGCCC CAACTGCCCATCTGAGGATGTAGTCATCACTCCAGAAAGCTTTGGAAGAGATTTCACCT CACATGCCTGGCTGGGAATGTCAGTGCATGTGACGCCCTATTCTCTCCTCTCCAGGTC CCTAGACTGCAGGGAGAGTGGCAAGAATGGCCCTCATGTGTACCAGGACCTCTGCTTAG CCTTGGGACTACAAACAGCAGCTGCCCTCCATTTTCTCCAATCTGGAATCCTGAC ATTGAACCCAGTTGCTCAGGGTCAGCCATTCTTACTTCCTGGGATCAAATCAAGAAGA AGCATATGTCACCATGTCCAGCTTCTACAAAACCAAGTGAAGTGAAGAAACCCAGACTG AACTTACCGTGAGCGACAAAGATGATTTAAAAGGGAAGTCTAGAGTTCCTAGTCTCCCTC ACAGCACAGAGAAGACAAAATTAGCAAACCCCACTACACAGTCTGCAAGATTCTGAAAC ATTGCTTTGACCACTCTTCTGAGTTCAGTGGCACTCAACATGAGTCAAGAGCATCTGCG TTCTACCATGTGGATTTGGTCAAAGGGCGAATTCAGATCTGGTACCGATATCAAGCTTGT CGACTCTAGATTGCGGCCGCGGCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCN TGTGACCCCTNCCAGTGCCTCTCTGGCCCTGGNAAGTGCCACTCCAGTGCN
Restriction Sites:	Please inquire
ACCN:	NM_002185
Insert Size:	1700 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_002185.2</u> , <u>NP_002176.2</u>
RefSeq Size:	1809 bp
RefSeq ORF:	1380 bp
Locus ID:	3575
UniProt ID:	<u>P16871</u>
Cytogenetics:	5p13.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway, Primary immunodeficiency
Gene Summary:	<p>The protein encoded by this gene is a receptor for interleukin 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukins 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in V(D)J recombination during lymphocyte development. Defects in this gene may be associated with severe combined immunodeficiency (SCID). Alternatively spliced transcript variants have been found. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) encodes the functional protein. 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>