

## Product datasheet for **SC324164**

### IL15 (NM\_000585) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL15 (NM_000585) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL15
Synonyms:	IL-15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000585.2  
 ACTCCGGGTGGCAGGCGCCCGGGGAATCCCAGCTGACTCGCTCACTGCCTTCGAAGTCC  
 GGCGCCCCCGGGAGGGAAGTGGGTGGCCGCACCCTCCCGGCTGCGGTGGCTGTCGCCCC  
 CCACCCTGCAGCCAGGACTCGATGGAGGTACAGAGCTCGGCTTCTTTGCCTTGGGAGGGG  
 AGTGGTGGTGGTTGAAAGGGCGATGGAATTTCCCGAAAAGCCTACGCCAGGGCCCTC  
 CCAGTCCAGCGTTACCCTCCGGTCTATCCTACTGGCCGAGCTGCCCGCCTTCTCATGG  
 GGAAACTTAGCCGCAACTTCAATTTTTGGTTTTTCTTTAATGACACTTCTGAGGCTCT  
 CCTAGCCATCCTCCCGCTTCCGGAGGAGCGCAGATCGCAGGTCCCTTTGCCCTGGCGTG  
 CGACTCCCTACTGCGCTGCGCTCTTACGGCGTTCAGGCTGCTGGCTAGCGCAAGGCGGG  
 CCGGGCACCCGCGCTCCGCTGGGAGGGTGAAGGACGCGCGTCTGGCGGCCCCAGCCAAG  
 CTGCGGGTTTCTGAGAAGACGCTGTCCCGCAGCCCTGAGGGCTGAGTTCTGCACCCAGTC  
 AAGCTCAGGAAGGCCAAGAAAAGAATCCATTCCAATATATGGCCATGTGGCTCTTTGGAG  
 CAATGTTCCATCATGTTCCATGCTGCTGACGTCACATGGAGCACAGAAATCAATGTTAGC  
 AGATAGCCAGCCATACAAGATCGTATTGTATTGTAGGAGGCATCGTGGATGGATGGCTG  
 CTGGAAACCCCTTGCCATAGCCAGCTCTTCTTCAACTTAAGGATTTACCGTGGCTTTG  
 AGTAATGAGAATTTGAAACCACATTTGAGAAGTATTTCCATCCAGTGTACTTGTGTTT  
 ACTTCTAAACAGTCATTTTCTAACTGAAGCTGGCATTTCATGTCTTCAATTTGGGCTGTT  
 CAGTGCAGGGCTTCTAAACAGAAAGCCAACTGGGTGAATGTAATAAGTGATTTGAAAAA  
 AATTGAAGATCTTATTCAATCTATGCATATTGATGCTACTTTATACGGAAAAGTGATGT  
 TCACCCAGTTGCAAAGTAAACAGCAATGAAGTGCTTTCTCTTGGAGTTACAAGTTATTTT  
 ACTTGAGTCCGGAGATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAA  
 CAACAGTTTGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAGGAAT  
 GGAGAAAAAATATTAAGAATTTTTGCAGAGTTTTGTACATATTGTCCAAATGTTTCAT  
 CAACACTTCTTGATTGCAATTGATTCTTTTTAAAGTGTTTCTGTTATTAACAAACATCAC  
 TCTGCTGCTTAGACATAACAAAACACTCGGCATTTCAAATGTGCTGTCAAAAAGTTTTT  
 TCTGTCAAGAAGATGATCAGACCTTGGATCAGATGAACTCTTAGAAATGAAGGCAGAAAA  
 ATGTCATTGAGTAATATAGTGACTATGAACTTCTCTCAGACTTACTTTACTCATTTTTTT  
 AATTTATTATTGAAATTGTACATATTTGTGGAATAATGTAATGTTGAATAAAAATATG  
 TACAAGTGTGTTTTTAAAGTTGCACTGATATTTACCTCTTATTGCAAAATAGCATTG  
 TTTAAGGGTGATAGTCAAATTATGTATTGGTGGGGCTGGGTACCAATGCTGCAGGTCAAC  
 AGCTATGCTGGTAGGCTCCTGCCTGTGTGGAACCACTGACTACTGGCTCTCATTGACTTC  
 CTACTAAGCATAGCAAACAGAGGAAGATTTGTTATCAGTAAGAAAAAGAACTATA  
 TGTGAATCCTCTTTTACACTGTAATTTAGTTATTGATGTATAAAGCAACTGTTATGAA  
 ATAAAGAAATTGCAATAACTGGCAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_000585

**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\\_000585.2](#), [NP\\_000576.1](#)

**RefSeq Size:** 1496 bp

**RefSeq ORF:** 489 bp

**Locus ID:** 3600

**UniProt ID:** [P40933](#)

**Cytogenetics:** 4q31.21

**Protein Families:** Druggable Genome, Secreted Protein

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

**Gene Summary:** The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Alternatively spliced transcript variants of this gene have been reported. [provided by RefSeq, Feb 2011]

Transcript Variant: This variant (3) represents the shortest transcript and encodes the longer isoform (1, also known as 48aa(LSP)-IL15).