

## Product datasheet for **SC109345**

### IL16 (NM\_004513) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL16 (NM_004513) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL16
Synonyms:	LCF; NIL16; prIL-16; PRIL16
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109345 sequence for NM\_004513 edited (data generated by NextGen Sequencing)

```
ATGGACTATAGCTTTGATACCACAGCCGAAGACCCTTGGGTTAGGATTTCTGACTGCATC
AAAAACTATTTAGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAAT
GCCAGCCTGAATGAAGAAGAAGGGACACAGGGCCACCCAGATGGGACCCACCAAAGCTG
GACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGACAGCAGCACTGTGAAGAAA
GGTCCCTCTGTGGCTCCCAAGCCAGCCTGGTTTCGCCAAAGCTTGAAGGTTTGAGGAAT
CGTGCTTCAGACCCAAGAGGGCTCCCTGATCCTGCCTTGCCACCCAGCCAGCACCTGCT
TCCAGGGAGCACCTAGGATCACACATCCGGGCCTCCTCCTCCTCCTCCATCAGGCAG
AGAATCAGCTCCTTTGAAACCTTTGGCTCCTCTCAACTGCCTGACAAAGGAGCCAGAGA
CTGAGCCTCCAGCCCTCCTGTTGGGAGGCAGAAAACCTTTGGGAAGCATGAGGAAGGA
CGGTTTTCTGGACTCTTGGGGCAGGGGCTGCACCCACTCTTGTGCCCCAGCAGCCTGAG
CAAGTACTGTCTCGGGTCCCCTGCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAG
TCCCTCCCCAGGGCGCAGCCCAATCAGAAAACCTCCTCCCCCTGGCCCGGACCCGCTC
CTAAGGCTGCTGTCAACACAGGCTGAGGAATCTCAAGGCCAGTGTCAAGATGCCTAGC
CAGCGAGCACGGAGCTTCCCCCTGACCAGTCCCAGTCTGTGAGACGAAGCTACTTGAC
GAAAAGACCAGCAAACCTATTCTATCAGCAGCCAAGTGTATCGGCTGTGATGAAATCC
TTGCTGTGCCTTCCATCTTATCTCCTGTGCCAGACTCCCTGCATCCCCAAGGAAGGG
GCATCTCCAACATCATATCCAACGAAGACTCAGCTGCAAATGGTTCTGCTGAAACATCT
GCCTTGGACACAGGGTCTCGCTCAACCTTTTCCAGAGCTGAGAGAAATACAGAGGGTCTC
ACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTCCCTTTCAGTCTGGTCAGTCCGTT
ATCTCCCTGCTGAGCTCAGAAGAATTAATAAACTCATCGAGGAGGTGAAGGTTCTGGAT
GAAGCAACATTAAGCAATTAGACGGCATCCATGTCACCATTTACACAAGGAGGAAGGT
GCTGGTCTTGGGTTTCAGCTTGGCAGGAGGAGCAGATCTAGAAAACAAGGTGATTACGGTT
CACAGAGTGTTCCAAATGGGCTGGCCTCCCAGGAAGGGACTATTCAGAAGGGCAATGAG
GTTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCACCATGATGCCTTGGCCATC
CTCCGCCAAGCTCGAGAGCCAGGCAAGCTGTGATTGTCACAAGGAAGCTGACTCCAGAG
GCCATGCCCGACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGAT
GTTTCTGTAGAATCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTGC
GCAGGGCTGGGCTTCAGCCTGGAAGGAGGGAAGGGCTCCCTACACGGAGACAAGCCTCTC
ACCATTAACAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGTGAGACAGTCCAGCCTGGA
GATGAAATCTTGACAGCTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTGAAGCCTGG
AACATCATCAAGGCACTGCCTGATGGACCTGTCCAGATTGTCATCAGGAGAAAAAGCCTC
CAGTCCAAGGAAACCACAGCTGCTGGAGACTCCTAG
```

Clone variation with respect to NM\_004513.5

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004513 unedited            GTATTTTGAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGGGAAGACAC            AGCAGGGAGAAGCCCTAGTGCCTCTGCCGGCTGCCCAGGACCTGGTATCGGCCACAGAC            CAAGTCTCCACAGAGGGCGAGCCAGGGTGGAGAAGAGCCAGCCAGTACCCAAACATC            CCCGATAAAACACCCACTGCTTAAGAGGCAGGCTCGGATGGACTATAGCTTTGATACCAC            AGCCGAAGACCCTTGGGTTAGGATTTCTGACTGCATCAAAAACCTATTTAGCCCCATCAT            GAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGG            GACACAGGGCCACCCAGATGGGACCCACCAAAGCTGGACACCGCAATGGCACTCCCAA            AGTTTACAAGTCAGCAGACAGCAGCACTGTGAAGAAAGTCTCTGTGGCTCCCAGCC            AGCCTGGTTTCGCCAAAGCTTGAAAGGTTTGAGGAATCGTGCTTCAGACCCAAGAGGGCT            CCCTGATCCTGCCTGTCCACCCAGCCAGCACCTGCTTCCAGGGAGCACCTAGGATCACA            CATCCGGGCTCCTCCTCCTCCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTT            TGGCTCCTCTCAACTGCCTGACAAAGGAGCCAGAGACTGAGCCTCCAGCCCTCCTTGG            GGAGGCAGCAAAACCTCTTGGGAAGCATGAGGAAGGACGGTTTTCTGGACTCTTNGGGC            AGGGGCTGCACCCACTCTGTGCCCCAGCAGCCTGAGCAAGTACTGTCTCGNGTCCCC            TGCAGCCTNCCGAGCCAGAGACCCAGGTGTGTCTGAGTCCCTCCCAGGGCGCAGCCCA            TCAGAACTCTCCCCCTGCCGACCGCTCTAAGCTGTGTACCAGCTGAGGACTCAAGCC            ATGCTCAGAGCCTAGCACG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004513 unedited            AACTTTATACCTATTTTATTGTGGCACCACAATATTATCATTAAAGCTCTCTTTTTACACA            GTCTGCAATTTGTATCAGCTGCCCCCGTGTGACTCTGCCCTTATTTTAAGGAACAACCTT            TTGCTGGGTGGCGTCTCTANAAGGTCTGGCCTGGGCAGCAGCCACTGGGAAGCCACCTG            TGCTTTCCCCATCTGGGTGGGGCGGCAGCAGAGACCCTGAGAATCAGCGGTTATGGGAG            CTGTGTGTAGCTGTGTGTTATTGGCTTTGGCTTCAGCATGTCCTGCCTAGGAGTCTCCA            GCAGCTGTGGTTTCCTGGACTGGAGGCTTTTTCTCCTGATGACAATCGTGACAGGTCCA            TCAGGCAGTGCCTTGATGATGTTCCAGGCTTCAAACCGTGTGAGGCCCTGCATGGCAGTG            CCACCCAGCTGCAAGATTTATCTCCAGGCTGGACTGTCTCACTTTGTTCTGAGGCTGTCT            CCTTTGAAAATCCTGTTAATGGTGAGAGGCTTGTCTCCGTGTAGGGAGCCCTTCCCTCCT            TCCAGCTGAAGCCCAGCCCTGCCGACATCTTCTCCAGTGTACCGTGCAGACTGTGGCC            TCTGCTGTAGATTCTACAGAAACATCACTGGCTGCAGAGGCTGAGGCTGCAGAGTCAAGTG            GAGGAGTTGAGGTGGGCATGGCCTCTGGAGTCAGCTTCTTGTGACAATCACAGCTTGC            CTGNGCTCTCGAGCTTGGCGNAGATGGCCAAGGCATCATGGTGCCTGGTCCCCTTGAGA            GACTTGCCGTTGATGAAAGAACCTCATTGCCCTTNTGATAGTCCCTTCTGGGGAGCC            AGCCCATTTGAAACACTCTGTGAACCGTAATCACNNCTGTTTCTAGATCTGCTCCTNCT            GCCAAGCTGAACCAAGACCAGCACCTTNTCTCTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004513
<b>Insert Size:</b>	2650 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:** [NM\\_004513.3](#), [NP\\_004504.3](#)

**RefSeq Size:** 6193 bp

**RefSeq ORF:** 1896 bp

**Locus ID:** 3603

**UniProt ID:** [Q14005](#)

**Cytogenetics:** 15q25.1

**Domains:** PDZ

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

**Gene Summary:** The protein encoded by this gene is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. The signaling process of this cytokine is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Caspase 3 is reported to be involved in the proteolytic processing of this protein. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

Transcript Variant: This variant (1) encodes 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.