

Product datasheet for **SC303144**

IL17 (IL17A) (NM_002190) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL17 (IL17A) (NM_002190) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL17
Synonyms:	CTLA-8; CTLA8; IL-17; IL-17A; IL17; ILA17
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002190 edited ATGACTCCTGGGAAGACCTCATTGGTATCACTGCTACTGCTGAGCCTGGAGGCCATA GTGAAGGCAGGAATCACAATCCCACGAAATCCAGGATGCCCAAATCTGAGGACAAGAAC TTCCCCGGACTGTGATGGTCAACCTGAACATCCATAACCGGAATACCAATACCAATCCC AAAAGGTCCTCAGATTACTACAACCGATCCACCTCACCTTGAATCTCCACCGCAATGAG GACCCTGAGAGATATCCCTCTGTGATCTGGGAGGCAAAGTGCCGCCACTTGGGCTGCATC AACGCTGATGGGAACGTGGACTACCACATGAACTCTGTCCCCATCCAGCAAGAGATCCTG GTCCTGCGCAGGGAGCCTCCACTGCCCAACTCCTTCCGGCTGGAGAAGATACTGGTG TCCGTGGGCTGCACCTGTGTACCCCGATTGTCCACCATGTGGCCTAA
Restriction Sites:	Please inquire
ACCN:	NM_002190
Insert Size:	600 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).



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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_002190.2](#), [NP_002181.1](#)

RefSeq Size: 1859 bp

RefSeq ORF: 468 bp

Locus ID: 3605

UniProt ID: [Q16552](#)

Cytogenetics: 6p12.2

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction

Gene Summary: This gene is a member of the IL-17 receptor family which includes five members (IL-17RA-E) and the encoded protein is a proinflammatory cytokine produced by activated T cells. IL-17A-mediated downstream pathways induce the production of inflammatory molecules, chemokines, antimicrobial peptides, and remodeling proteins. The encoded protein elicits crucial impacts on host defense, cell trafficking, immune modulation, and tissue repair, with a key role in the induction of innate immune defenses. This cytokine stimulates non-hematopoietic cells and promotes chemokine production thereby attracting myeloid cells to inflammatory sites. This cytokine also regulates the activities of NF-kappaB and mitogen-activated protein kinases and can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). IL-17A plays a pivotal role in various infectious diseases, inflammatory and autoimmune disorders, and cancer. High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The lung damage induced by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL17A. [provided by RefSeq, Sep 2020]