

Product datasheet for **SC300099**

IL10 (NM_000572) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL10 (NM_000572) Human Untagged Clone
Tag: Tag Free
Symbol: IL10
Synonyms: CSIF; GVHDS; IL-10; IL10A; TGIF
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000572 edited
CTTGCAAACCAAACCACAAGACAGACTTGCAAAGAAGGCATGCACAGCTCAGCACTGC
TCTGTTGCCTGGTCTCTGACTGGGGTGAGGGCCAGCCAGGGCACCCAGTCTG
AGAACAGCTGCACCCACTTCCCAGGCAACCTGCCTAACATGCTTCGAGATCTCCGAGATG
CCTTCAGCAGAGTGAAGACTTTCTTCAAATGAAGGATCAGCTGGACAACCTGTTGTTAA
AGGAGTCTTGCTGGAGGACTTTAAGGGTTACCTGGGTTGCCAAGCCTTGCTGAGATGA
TCCAGTTTTACCTGGAGGAGGTGATGCCCAAGCTGAGAACCAAGACCCAGACATCAAGG
CGCATGTGAACCTCCCTGGGGGAGAACCTGAAGACCCTCAGGCTGAGGCTACGGCGCTGTC
ATCGATTTCTCCCTGTGAAAACAAGAGCAAGGCCGTGGAGCAGGTGAAGAATGCCTTTA
ATAAGCTCCAAGAGAAAGGCATCTACAAAGCCATGAGTGAGTTTGACATCTTCATCAACT
ACATAGAAGCCTACATGACAATGAAGATACGAAACTGAGACATCAGGGTGGCGACTCTAT
AGA

Restriction Sites: Please inquire

ACCN: NM_000572

Insert Size: 537 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.



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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_000572.2</u> , <u>NP_000563.1</u>
RefSeq Size:	1629 bp
RefSeq ORF:	537 bp
Locus ID:	3586
UniProt ID:	<u>P22301</u>
Cytogenetics:	1q32.1
Domains:	IL10
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Allograft rejection, Asthma, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway
Gene Summary:	The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. Mutations in this gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis. [provided by RefSeq, May 2020]