

Product datasheet for **SC304434**

IL23 (IL23A) (NM_016584) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL23 (IL23A) (NM_016584) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL23
Synonyms:	IL-23; IL-23A; IL23P19; P19; SGRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_016584 edited
ACAGAGAGAATCAGGCTCAAAGCAAGTGGAAAGTGGGCAGAGATTCCACCAGGACTGGTGC
AAGGCGCAGAGCCAGCCAGATTTGAGAAGAAGGCAAAAAGATGCTGGGGAGCAGAGCTGT
AATGCTGCTGTTGCTGCTGCCCTGGACAGCTCAGGGCAGAGCTGTGCCTGGGGGCAGCAG
CCCTGCCTGGACTCAGTGCCAGCAGCTTTCACAGAAGCTCTGCACACTGGCCTGGAGTGC
ACATCCACTAGTGGGACACATGGATCTAAGAGAAGAGGGAGATGAAGAGACTACAAATGA
TGTTCCCATATCCAGTGTGGAGATGGCTGTGACCCCAAGGACTCAGGGACAACAGTCA
GTTCTGCTTGCAAAGGATCCACCAGGTCTGATTTTTTATGAGAAGCTGCTAGGATCGGA
TATTTTCACAGGGGAGCCTTCTCTGCTCCCTGATAGCCCTGTGGGCCAGCTTCATGCCTC
CCTACTGGGCTCAGCCAACTCCTGCAGCCTGAGGGTCACCACTGGGAGACTCAGCAGAT
TCCAAGCCTCAGTCCCAGCCAGCCATGGCAGCGTCTCCTTCTCCGCTTCAAATCCTTCG
CAGCCTCCAGGCCTTTGTGGCTGTAGCCGCCCGGGTCTTTGCCATGGAGCAGCAACCT
GAGTCCCTAAAGGCAGCAGCTCAAGGATGGCACTCAGATCTCCA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016584 unedited GTTANCATTTGTATACGACTCATATAGGCGGCCGCGNATTCANATCTGGTACCGAGCTCG GATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTACAGAGAGAATCAGGCTC AAAGCAAGTGGAAGTGGGCAGAGATCCACCAGGACTGGTGAAGGCGCAGAGCCAGCCA GATTTGAGAAGAAGGCAAAAAGATGCTGGGGAGCAGAGCTGTAATGCTGCTGTTGCTGCT GCCCTGGACAGCTCAGGGCAGAGCTGTGCCTGGGGCAGCAGCCCTGCCTGGACTCAGTG CCAGAGCTTTTACAGAAGCTCTGCACACTGGCCTGGAGTGCACATCCACTAGTGGGACA CATGGATCTAAGAGAAGAGGGAGATGAAGAGACTACAAATGATGTTCCCATATCCAGTG TGGAGATGGCTGTGACCCCAAGGACTCAGGGACAACAGTCAGTTCTGCTTGCAAAGGAT CCACCAGGTCTGATTTTTTATGAGAAGCTGCTAGGATCGGATATTTTACAGGGGAGCC TTCTCTGCTCCCTGATAGCCCTGTGGCCAGCTTCATGCCTCCCTACTGGGCCTCAGCCA ACTCTGCAGCCTGAGGGTCACCACTGGGAGACTCAGCAGATTCCAAGCCTCAGTCCCAG CCAGCCATGGCAGCGTCTCCTTCCGCTTCAAATCCTTCGCAGCCTCCAGGCCTTTGT GGCTGTAGCCGCCGGTCTTTGCCCATGGAGCAGCAACCCTGAGTCCCTAAAGCAGCAG CTCAAGGATGGCACTCAGATCTCATAAGGCGAATTCTGCC
Restriction Sites:	Please inquire
ACCN:	NM_016584
Insert Size:	700 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:	NM_016584.2 , NP_057668.1
RefSeq Size:	1049 bp
RefSeq ORF:	570 bp
Locus ID:	51561
UniProt ID:	Q9NPF7
Cytogenetics:	12q13.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Gene Summary:

This gene encodes a subunit of the heterodimeric cytokine interleukin 23 (IL23). IL23 is composed of this protein and the p40 subunit of interleukin 12 (IL12B). The receptor of IL23 is formed by the beta 1 subunit of IL12 (IL12RB1) and an IL23 specific subunit, IL23R. Both IL23 and IL12 can activate the transcription activator STAT4, and stimulate the production of interferon-gamma (IFNG). In contrast to IL12, which acts mainly on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells. [provided by RefSeq, Jul 2008]