

Product datasheet for **SC304958**

IL21 (NM_021803) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL21 (NM_021803) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL21
Synonyms:	CVID11; IL-21; Za11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_021803 edited</p> <pre> GCCACCATGAGATCCAGTCCTGGCAACATGGAGAGGATTGTCATCTGTCTGATGGTCATC TTCTTGGGGACACTGGTCCACAAATCAAGCTCCCAAGGTCAAGATCGCCACATGATTAGA ATGCGTCAACTTATAGATATTGTTGATCAGCTGAAAAATTATGTGAATGACTTGGTCCCT GAATTTCTGCCAGCTCCAGAAGATGTAGAGACAACTGTGAGTGGTCAGCTTTTTCCTGC TTTCAGAAGGCCCAACTAAAGTCAGCAAATACAGGAAACAATGAAAGGATAATCAATGTA TCAATTAAGCTGAAGAGGAAACCACCTTCCACAAATGCAGGGAGAAGACAGAAACAC AGACTAACATGCCCTTCATGTATTCTTATGAGAAAAACCAACCAAGAATTCCTAGAA AGATTCAAATCACTTCTCCAAAAGATGATTCATCAGCATCTGTCCTCTAGAACACACGGA AGTGAAGATTCTCTGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_021803
Insert Size:	500 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:	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).


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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_021803.1, NP_068575.1</u>
RefSeq Size:	642 bp
RefSeq ORF:	489 bp
Locus ID:	59067
UniProt ID:	<u>Q9HBE4</u>
Cytogenetics:	4q27
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
Gene Summary:	<p>This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]</p> <p>Transcript Variant: This variant (1) encodes the longer 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.</p>