

## Product datasheet for **SC330096**

### IL18 (NM\_001243211) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL18 (NM_001243211) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL18
Synonyms:	IGIF; IL-1g; IL-18; IL1F4
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330096 representing NM_001243211. Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCTGCTGAACCACTAGAAGACAATTGCATCAACTTTGTGGCAATGAAATTTATTGACAATACGCTT  
TACTTTATAGAAAACCTGGAATCAGATTACTTTGGCAAGCTTGAATCTAAATTATCAGTCATAAGAAAT  
TTGAATGACCAAGTTCTCTTCATTGACCAAGGAAATCGGCCTCTATTTGAAGATATGACTGATTCTGAC  
TGTAAGAGATAATGCACCCCGGACCATATTTATTATAAGTATGTATAAAGATAGCCAGCCTAGAGGTATG  
GCTGTAACATCTCTGTGAAGTGTGAGAAAATTTCAACTCTCTCCTGTGAGAACAAAATTATTTCTTT  
AAGGAAATGAATCCTCTGATAACATCAAGGATACAAAAGTGACATCATATTCTTTAGAGAAGTGTC  
CCAGGACATGATAATAAGATGCAATTTGAATCTTCATCATACGAAGGATACTTTCTAGCTTGTGAAAAA  
GAGAGAGACCTTTTAACTCATTTTGAAAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTCACT  
GTTCAAAACGAAGACTAG

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001243211
Insert Size:	570 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).
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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<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001243211.1</u>
<b>RefSeq Size:</b>	1151 bp
<b>RefSeq ORF:</b>	570 bp
<b>Locus ID:</b>	3606
<b>UniProt ID:</b>	<u>Q14116</u>
<b>Cytogenetics:</b>	11q23.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway
<b>MW:</b>	21.9 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a proinflammatory cytokine of the IL-1 family that is constitutively found as a precursor within the cytoplasm of a variety of cells including macrophages and keratinocytes. The inactive IL-18 precursor is processed to its active form by caspase-1, and is capable of stimulating interferon gamma production, and of regulating both T helper (Th) 1 and Th2 responses. This cytokine has been implicated in the injury of different organs, and in potentially fatal conditions characterized by a cytokine storm. In humans, IL-18 gene is located on chromosome 11. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (2, also known as Delta3pro-IL-18) lacks an in-frame coding exon compared to variant 1. The encoded isoform (2) is shorter and may be resistant to proteolytic activation, compared to isoform 1.</p>