

## Product datasheet for **SC125236**

### IL6 (NM\_000600) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL6 (NM_000600) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL6
Synonyms:	BSF-2; BSF2; CDF; HGF; HSF; IFN-beta-2; IFNB2; IL-6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125236 sequence for NM_000600 edited (data generated by NextGen Sequencing)

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ATGAACTCCTTCCACAAGCGCCTTCGGTCCAGTTGCCTTCTCCCTGGGGCTGCTCCTG
GTGTTGCCTGCTGCCTTCCCTGCCCCAGTACCCCCAGGAGAAGATTCCAAGATGTAGCC
GCCCCACACAGACAGCCACTCACCTCTTCAGAACGAATTGACAAACAAATTCGGTACATC
CTCGACGGCATCTCAGCCCTGAGAAAGGAGACATGTAACAAGAGTAACATGTGTGAAAGC
AGCAAAGAGGCACTGGCAGAAAACAACCTGAACCTTCCAAGATGGCTGAAAAGATGGA
TGCTTCCAATCTGGATTCAATGAGGAGACTTGCCTGGTAAAAATCATCACTGGTCTTTTG
GAGTTTGAGGTATACCTAGAGTACCTCCAGAACAGATTTGAGAGTAGTGAGGAACAAGCC
AGAGCTGTGCAGATGAGTACAAAAGTCCTGATCCAGTTCCTGCAGAAAAAGGCAAAGAAT
CTAGATGCAATAACCACCCTGACCCAACCACAAATGCCAGCCTGCTGACGAAGCTGCAG
GCACAGAACCAGTGGCTGCAGGACATGACAACATCTCATTCTGCGCAGCTTTAAGGAG
TTCTGCAGTCCAGCCTGAGGGCTTTCGGCAAATGTAG
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Clone variation with respect to NM\_000600.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000600 unedited</p> <pre>GACTCACTATAGGGCGGCCGGAATTCAGCCCAGCTATGAACTCCTTCTCCACAAGCGCC TTCGGTCCAGTTGCCTTCTCCCTGGGGCTGCTCCTGGTGTTCCTGCTGCCTTCCCTGCC CCAGTACCCCCAGGAGAAGATTCCAAAGATGTAGCCGCCCCACACAGACAGCCACTCACC TCTTCAGAACGAATTGACAAACAATTCGGTACATCCTCGACGGCATCTCAGCCCTGAGA AAGGAGACATGTAACAAGAGTAACATGTGTGAAAGCAGCAAAGAGGCACTGGCAGAAAAC AACCTGAACCTTCCAAAGATGGCTGAAAAAGATGGATGCTTCCAATCTGGATTCAATGAG GAGACTTGCCTGGTGAATCATCACTGGTCTTTTGGAGTTTGGGTATACCTAGAGTAC CTCCAGAACAGATTTGAGAGTAGTGAGGAACAAGCCAGAGCTGTGCAGATGAGTACAAAA GTCCTGATCCAGTTCCTGCAGAAAAAGCAAAGAATCTAGATGCAATAACCAACCCCTGAC CCAACCACAAATGCCAGCCTGCTGACGAAGCTGCAGGCACAGAACCAGTGGCTGCAGGAC TTGACAACTTATCTATTCTGCGCAGCTTTAGGAGTTCGGAGTTCACCTGAGGGCTTTC GGAAAAGTACATGGGCACTATTCTTGTATTTTGTGGGGCGCGGAATATTTTCTCTAAA AATCCGGGGGCTCTGGGACCTCCAGGGTTTTGGGCCA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000600 unedited</p> <pre>NCCCTCCATTGCGAATTGGCGAAGGCCAATTTCCAGGGCCAGNACGACTGGGGNA GGGTTACAGGGCATGCCCCGGGCACTGTTCCAGGAAACAGCTATGACCGCGCCGCAAT CTAGAGTCGAGATCTGAGGTGCCATGCTTACATTTGCCGAAGAGCCCTCAGGCTGGACT GCAGGAACTCCTTAAAGCTGCGCAGAATGAGATGAGTTGTCATGCTCCTGCAGCCACTGGT TCTGTGCCTGCAGCTTCGTGAGCAGGCTGGCATTGTGGTTGGTCCAGGGTGGTTATTG CATCTAGATTCTTGCCTTTTCTGAGGAACTGGATCAGGACTTTTGTACTCATCTGCA CAGCTCTGGCTTGTCTCACTACTCTCAAATCTGTTCTGGAGTACTCTAGGTATACCT CANACTCCAAAAGACCAGTGATGATTTTACCAGGCAAGTCTCCTCATTGAATCCAGATT GGAAGCATCCATCTTTTTCAGCCATCTTTGGAAGTTCCAGTTGTTTTCTGCCAGTGCCT CTTTGCTGCTTTCACACATGTTACTCTTGTACATGTCTCCTTCTCAGGGCTGAGATGC CGTCGAGGATGTACCGAATTTGTTTGTCAATTCGTTCTGAAGAGGTGAGTGGCTGTCTGT GTGGNGCGGCTACATCTTTGGAATCTTCTCCTGGGGTACTGGGGCAGGGAAGGCAGCAG GCAACACCAGNAGCAGCCCCAGGGGAGAAGCAACTGGACCCGAAGCGCTTGTGGAGAANG AGTTCATAGCTGGGCTGAATTCGCCGCCCTATAGTGAGTCGTATACAAAATTTGACG TTCCTAACGAGCTTTGCTATTTAGACCTCCNACGTACACGCCTACCGCCAT</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000600
<b>Insert Size:</b>	639 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<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>

RefSeq:	<a href="#">NM_000600.1</a> , <a href="#">NP_000591.1</a>
RefSeq Size:	1125 bp
RefSeq ORF:	639 bp
Locus ID:	3569
UniProt ID:	<a href="#">P05231</a>
Cytogenetics:	7p15.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Jak-STAT signaling pathway, NOD-like receptor signaling pathway, Pathways in cancer, Prion diseases, Toll-like receptor signaling pathway
Gene Summary:	<p>This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including susceptibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. Elevated levels of the encoded protein have been found in virus infections, including COVID-19 (disease caused by SARS-CoV-2). [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>