

Product datasheet for **SC125652**

IL6 (BC015511) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL6 (BC015511) Human Untagged Clone
Tag: Tag Free
Symbol: IL6
Synonyms: BSF2; HGF; HSF; IFNB2; IL-6; Interleukin 6; interleukin 6 (interferon, beta 2)
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC015511 edited
CCCACCGGAACGAAAGAGAAGCTCTATCTCCCCTCCAGGAGCCCAGCTATGAACTCCTT
CTCCACAAGCGCCTTCGGTCCAGTTGCCCTTCTCCCTGGGGCTGCTCCTGGTGTTCCTGCTG
TGCTTCCCTGCCCCAGTACCCCAAGGAGAAGATTCCAAAGATGTAGCCGCCACACAG
ACAGCCACTCACCTCTTCAGAACGAATTGACAAACAAATTCGGTACATCCTCGACGGCAT
CTCAGCCCTGAGAAAGGAGACATGTAACAAGAGTAACATGTGTGAAAGCAGCAAAGAGGC
ACTGGCAGAAAACAACCTGAACCTTCCAAAGATGGCTGAAAAAGATGGATGCTTCCAATC
TGGATTCAATGAGGAGACTTGCCTGGTAAAAATCATCACTGGTCTTTTGGAGTTTGAGGT
ATACCTAGAGTACCTCCAGAACAGATTTGAGAGTAGTGAGGAACAAGCCAGAGCTGTGCA
GATGAGTACAAAAGTCTGATCCAGTTCCTGCAGAAAAAGCAAAGAATCTAGATGCAAT
AACCACCCTGACCAACCACAAATGCCAGCCTGCTGACGAAGCTGCAGGCACAGAACCA
GTGGCTGCAGGACATGACAACTCATCTCATTCTGCGCAGCTTTAAGGAGTTCCTGCAGTC
CAGCCTGAGGGCTCTTCGGCAAATGTAGCATGGGCACCTCAGATTGTTGTTGTTAATGGG
CATTCTTCTTCTGGTCAGAAACCTGTCCACTGGGCACAGAACTTATGTTGTTCTCTATG
GAGAACTAAAAGTATGAGCGTTAGGACACTATTTTAATTTTAAATTTAATTAATTT
AAATATGTGAAGCTGAGTTAATTTATGTAAGTCATATTTATATTTTAAAGTACCCT
TGAAACATTTTATGTATTAGTTTGAATAATAATGGAAGTGGCTATGCAGTTTGAATA
TCCTTTGTTTCAGAGCCAGATCATTCTTGAAAGTGTAGGCTTACCTCAAATAAATGTC
TAACTTATACATATTTTAAAGAAATTTATATTGATTTTATAAATGTATAAATGTT
TTTATACCAATAAATGGCATTTTAAAAAATTCAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC015511 unedited NAGCCAGAATTGTAACGACTCATATAGGGCGGCCGGAATCANATCTGGTACCGGTCCG GAATTCCTCCGGGATATCGTCGACCCACGCGTCCGCCACCAGGAAACGAAAGAGAAGCTCTA TCTCCCTCCAGGAGCCAGCTATGAACTCCTTCCACAAGCGCCTTCGGTCCAGTTGC CTTCTCCCTGGGGCTGCTCCTGGTGTTCCTGCTGCCTTCCCTGCCCCAGTACCCCCAGG AGAAGATTCAAAAGATGTAGCCGCCACACAGACAGCCACTCACCTCTTCAGAACGAAT TGACAAACAAATTCGGTACATCCTCGACGCATCTCAGCCCTGAGAAAGGAGACATGTAA CAAGAGTAACATGTGTGAAAGCAGCAAAGAGGCACTGGCAGAAAACAACCTGAACCTTCC AAAGATGGCTGAAAAAGATGGATGCTTCCAATCTGGATTCAATGAGGAGACTTGCCTGGT GAAAATCATCACTGGTCTTTTGGAGTTTGGAGTATACCTAGAGTACCTCCAGAACAGATT TGAGAGTAGTGAGGAACAAGCCAGAGCTGTGCAGATGAGTACAAAAGTCTGATCCAGTT CCTGCAGAAAAAGGCAAAGAATCTAGATGCAATAACCACCCCTGACCCAACCACAAATGC CAGCCTGTGACGAAGCTGCAGGCACAGAACAGTGGCTGCAGGACATGACAACCTCATCT CATTCTGCGCAGCTTTAAGGAGTTCCTGCAGTCCAGCCTGAGGGCTCTTCGGCAAATGTA GCATGGGCACCTCAGATTGNTGTTGTTAATGGGCATTCTTCTTCTGGTCAGAAACCTGT CCACTGGGCACAGAATTNATGTGTTCTCTATGGAGAACTAAAGTATGAGCGTTNAGAC ACTATTTTAATTATTTT
Restriction Sites:	NotI-NotI
ACCN:	BC015511
Insert Size:	1100 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).
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>BC015511.1</u> , <u>AAH15511.1</u>
RefSeq Size:	1127 bp
Locus ID:	3569
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:	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]