

Product datasheet for **SC118195**

STAT6 (NM_003153) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAT6 (NM_003153) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAT6
Synonyms:	D12S1644; IL-4-STAT; STAT6B; STAT6C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_003153 edited
ATGTCTCTGTGGGGTCTGGTCTCCAAGATGCCCCAGAAAAAGTGCAGCGGCTCTATGTC
GACTTTCCCAACACCTGCGGCATCTTCTGGGTGACTGGCTGGAGAGCCAGCCCTGGGAG
TTCCTGGTCCGGTCCGACGCCTTCTGCTGCAACTTGGCTAGTGCCTACTTTTCAGACACT
GTCCAGCACCTTCAGGCCTCGGTGGGAGAGCAGGGGGAGGGGAGCACCATCTTGAACAC
ATCAGCACCTTGAGAGCATATATCAGAGGGACCCCTGAAGCTGGTGGCCACTTTCAGA
CAAATACTTCAAGGAGAGAAAAAAGCTTATGGAACAGTTCCGCCACTTGCCAATGCCT
TTCCACTGGAAGCAGGAAGAACTCAAGTTTAAGACAGGCTTGGGAGGCTGCAGCACCGA
GTAGGGGAGATCCACCTTCTCCGAGAAGCCCTGCAGAAGGGGGCTGAGGCTGGCCAAGTG
TCTCTGCACAGCTTGATAGAACTCCTGCTAATGGGACTGGGCAAGTGAGGCCCTGGCC
ATGCTACTGCAGGAGACCACTGGAGAGCTAGAGGCAGCCAAAGCCCTAGTGTGAAGAGG
ATCCAGATTTGAAAACGGCAGCAGCAGCTGGCAGGGAATGGCGCACCGTTTGAGGAGAGC
CTGGCCCCACTCCAGGAGAGGTGTGAAAGCCTGGTGGACATTTATCCCAGCTACAGCAG
GAGGTAGGGGCGGCTGGTGGGAGCTTGAGCCCAAGACCCGGGCATCGCTGACTGGCCGG
CTGGATGAAGTCTGAGAACCCTCGTCACCAGTTGCTTCTGGTGGAGAAGCAGCCCCC
CAGGTAAGTGAAGACTCAGACCAAGTTCCAGGCTGGAGTTCGATTCTGTTGGGCTTGAGG
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ATCAACAACACTGTGCCCTTGGAGAACAGCATTCTGGGAACTGCTGCTGTGCCCTGTTC
AAGAACCTGCTTCTCAAGAAGATCAAGCGGTGTGAGCGGAAGGGCACTGAGTCTGTCA
GAGGAGAAGTGCCTGTGCTCTTCTGCCAGCTTCACTTGGCCCCGGCAAATCCCC
ATCCAGTCCAGGCCCTGTCTGCCCCGGTGGTTCATCGTCCATGGCAACCAAGACAAC
AATGCCAAAGCCACTATCCTGTGGGACAATGCCTTCTCTGAGATGGACCGCGTGCCTTT
GTGGTGGCTGAGCGGGTGCCTGGGAGAAGATGTGTGAACTCTGAACCTGAAGTTCATG
GCTGAGGTGGGGACCAACCGGGGCTGCTCCAGAGCACTTCTTCTTCTGGCCAGAAG
ATCTTCAATGACAACAGCCTCAGTATGGAGGCCTCCAGCACCGTTCTGTGCTGGTGC
CAGTTCAACAAGGAGATCCTGCTGGGCCGTGGCTTCACTTTTGGCAGTGGTTTGTGAT
GTCCTGGACCTCACCAACGCTGTCTCCGGAGCTACTGGTCTGACCGGCTGATCATTGGC
TTCATCAGCAAACAGTACGTTACTAGCTTTCTTCTCAATGAGCCCGACGGAACTTTCTC
CTCCGCTTCAAGGACTCAGAGATTGGGGCATCACCATGCCCATGTCATCCGGGGCCAG
GATGGCTCTCCACAGATAGAGAACATCCAGCCATTCTCTGCCAAAGACCTGTCCATTCCG
TCACTGGGGGACCGAATCCGGGATCTTGTCTCAGCTCAAAAATCTCTATCCAAGAAGCC
AAGGATGAGGCTTTCGGAGCCACTACAAGCCTGAACAGATGGGTAAAGATGGCAGGGGT
TATGTCCCAGCTACCATCAAGATGACCGTGGAAAGGGACCAACCACTTCTACCCAGAG
CTCCAGATGCCTACCATGGTGCCTTCTTATGACCTTGAATGGCCCTGATTCTCCATG
AGCATGCAGCTTGGCCAGATATGGTGGCCAGGTGTACCCACCACACTCTCACTCCATC
CCCCGTATCAAGGCCTCTCCCCAGAAGAATCAGTCAACGTGTTGTCAGCCTTCCAGGAG
CCTCACCTGCAGATGCCCCCAGCCTGGCCAGATGAGCCTGCCCTTTGACCAGCCTCAC
CCCCAGGGCCTGCTGCCGTGCCAGCCTCAGGAGCATGCTGTGTCAGCCCTGACCCCTG
CTCTGCTCAGATGTGACCATGGTGAAGACAGCTGCCTGAGCCAGCCAGTGACAGCGTTT
CCTCAGGGCACTTGGATTGGTGAAGACATATCCCTCCTGCTGCCTCCCACTGAACAG
GACCTCACTAAGCTTCTCCTGGAGGGCAAGGGGAGTCGGGGGGAGGGTCTTGGGGGCA
CAGCCCCCTCTGCAGCCCTCCCACTATGGGCAATCTGGGATCTCAATGTCCACATGGAC
CTAAGGGCAACCCCAAGTTGGTGA
    
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Reconstitution Method:

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_003153.3](#), [NP_003144.3](#)

RefSeq Size: 3993 bp

RefSeq ORF: 2544 bp

Locus ID: 6778

UniProt ID: [P42226](#)

Cytogenetics: 12q13.3

Domains: SH2, STAT

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

Protein Pathways: Jak-STAT signaling pathway

Gene Summary: The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein (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.