

## Product datasheet for **SC329174**

### STAT6 (NM\_001178078) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAT6 (NM_001178078) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAT6
Synonyms:	D12S1644; IL-4-STAT; STAT6B; STAT6C
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001178078, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCTGTGGGTCTGGTCTCCAAGATGCCCCAGAAAAAGTGCAGCGGCTCTATGTC
GACTTTCCCAACACCTGCGGCATCTTCTGGGTGACTGGCTGGAGAGCCAGCCCTGGGAG
TTCCTGGTCGGCTCCGACGCCTTCTGCTGCAACTTGGCTAGTGCCTACTTTTCAGACACT
GTCCAGCACCTTCAGGCCTCGGTGGGAGAGCAGGGGGAGGGGAGCACCATCTTGAACAC
ATCAGCACCTTGAGAGCATATATCAGAGGGACCCCTGAAGCTGGTGGCCACTTTCAGA
CAAATACTTCAAGGAGAGAAAAAAGCTGTTATGGAACAGTTCCGCCACTTGCCAATGCCT
TTCCACTGGAAGCAGGAAGAACTCAAGTTTAAGACAGGCTTGGGAGGCTGCAGCACCGA
GTAGGGGAGATCCACCTTCTCCGAGAAGCCCTGCAGAAGGGGGCTGAGGCTGGCCAAAGT
TCTCTGCACAGCTTGATAGAACTCCTGCTAATGGGACTGGCCAAAGTGGGCTGGCC
ATGCTACTGCAGGAGACCACTGGAGAGCTAGAGGCAGCCAAAGCCCTAGTGTGAAGAGG
ATCCAGATTTGAAACCGCAGCAGCAGCTGGCAGGGAATGGCGCACCGTTTGAGGAGAGC
CTGGCCCCACTCCAGGAGAGGTGTGAAAGCCTGGTGGACATTTATCCCAGCTACAGCAG
GAGGTAGGGGCGCTGGTGGGAGCTTGGCCAAAGACCCGGGCATCGCTGACTGGCCGG
CTGGATGAAGTCCTGAGAACCCTCGTCACCAGTTGCTTCTGGTGGAGAAGCAGCCCCC
CAGGTAAGTGAAGACTCAGACCAAGTTCCAGGCTGGAGTTCGATTCTGTTGGGCTTGAGG
TTCTGGGGGCCCCAGCCAAGCCTCCGCTGGTCAGGGCCGACATGGTGACAGAGAAGCAG
GCGCGGGAGCTGAGTGTGCCTCAGGGTCTGGGCTGGAGCAGAAAGCACTGGAGAAATC
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GAGGAGAAGTGCCTGTGCTCTTCTCTGCCAGCTTCACTTGGCCCCGGCAAACCTCCCC
ATCCAGTCCAGGCCCTGTCTCTGCCCTGGTGGTCCATGGCAACCAAGCAAC
AATGCCAAAGCCACTATCCTGTGGGACAATGCCTTCTCTGAGATGGACCGCGTGCCTTT
GTGGTGGCTGAGCGGGTGCCTGGGAGAAGATGTGTGAAACTCTGAACCTGAAGTTCATG
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CTCCGCTTCAGCGACTCAGAGATTGGGGCATCACCATTGCCATGTCATCCGGGGCCAG
GATGGCTCTCACAGATAGAGAACATCCAGCCATTCTCTGCCAAAGACCTGTCCATTCCG
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AAGGATGAGGCTTTCCGGAGCCACTACAAGCCTGAACAGATGGGTAAAGATGGCAGGGGT
TATGTCCAGCTACCATCAAGATGACCGTGGAAAGGGACCAACCACTTCTACCCAGAG
CTCCAGATGCCTACCATGGTGCCTTCTTATGACCTTGGAAATGGCCCTGATTCTCCATG
AGCATGCAGCTTGGCCAGATATGGTGGCCAGGTGTACCCACCACACTCTCACTCCATC
CCCCGTATCAAGGCCTCTCCCCAGAAGAATCAGTCAACGTGTTGTCAGCCTTCCAGGAG
CCTCACCTGCAGATGCCCCCAGCCTGGCCAGATGAGCCTGCCCTTTGACCAGCCTCAC
CCCCAGGCCTGTGCGGTGCCAGCCTCAGGAGCATGCTGTGTCAGCCCTGACCCCTG
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CCTCAGGGCACTTGGATTGGTGAAGACATATCCCTCCTCTGCTGCCTCCCACTGAACAG
GACCTCACTAAGCTTCTCCTGGAGGGCAAGGGGAGTCGGGGGAGGGTCTTGGGGCA
CAGCCCCCTCTGCAGCCCTCCCACTATGGGCAATCTGGGATCTCAATGTCCACATGGAC
CTAAGGGCCAACCCAGTTGGTGA
    
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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001178078

<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>OTI Annotation:</b>	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.
<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>
<b>RefSeq:</b>	<u><a href="#">NM_001178078.1</a></u> , <u><a href="#">NP_001171549.1</a></u>
<b>RefSeq Size:</b>	4050 bp
<b>RefSeq ORF:</b>	2544 bp
<b>Locus ID:</b>	6778
<b>UniProt ID:</b>	<u><a href="#">P42226</a></u>
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
<b>Protein Pathways:</b>	Jak-STAT signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (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.</p>