

## Product datasheet for **SC124165**

### STAT3 (NM\_139276) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** STAT3 (NM\_139276) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** STAT3  
**Synonyms:** ADMIO; ADMIO1; APRF; HIES  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_139276 edited  
 GAATTCGGCACCAGCAGGCACCCCGGCTTGGCGCTGTCTCTCCCCCTCGGCTCGGAGAGG  
 CCCTTCGGCCTGAGGGAGCCTCGCCGCCGTCGCCGGCACAGCGCAGCCCCGGCCTCTC  
 GGCTCTGCCGGAGAAACAGTTGGGACCCCTGATTTTAGCAGGATGGCCCAATGGAATCA  
 GCTACAGCAGCTTGACACACGGTACCTGGAGCAGCTCCATCAGCTCTACAGTGACAGCTT  
 CCCAATGGAGCTGCGGCAGTTTCTGGCCCTTGGATTGAGAGTCAAGATTGGGCATATGC  
 GGCCAGCAAAGAATCACATGCCACTTTGGTGTTTCATAATCTCCTGGGAGAGATTGACCA  
 GCAGTATAGCCGTTCTGCAAGAGTGAATGTTCTCTATCAGCACAACTACGAAGAAT  
 CAAGCAGTTTCTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCCCGGATTGTGGC  
 CCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCCAGCAAGG  
 GGCCAGGCCAACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGCTGGAGCA  
 GCACCTTCAGGATGTCCGGAAGAGAGTGCAGGATCTAGAACAGAAAATGAAAGTGGTAGA  
 GAATCTCCAGGATGACTTTGATTCAACTATAAAACCCTCAAGAGTCAAGGAGACATGCA  
 AGATCTGAATGGAAACAACAGTCAGTGACCAGGCAGAAGATGCAGCAGCTGGAACAGAT  
 GCTCACTGCGCTGGACCAGATGCGGAGAAGCATCGTGAGTGAGCTGGCGGGGCTTTTGT  
 AGCGATGGAGTACGTGCAGAAACTCTCACGGACGAGGAGCTGGCTGACTGGAAGAGGCG  
 GCAACAGATTGCCTGCATTGGAGGCCGCCCAACATCTGCCTAGATCGGCTAGAAAAC  
 GATAACGTCATTAGCAGAATCTCAACTTCAGACCCGTCAACAAATTAAGAAACTGGAGGA  
 GTTGCAGCAAAAAGTTTCTACAAGGGGACCCATTGTACAGCACCAGCCGATGCTGGA  
 GGAGAGAATCGTGGAGCTGTTTAGAAAATAATGAAAAGTGCCTTTGTGGTGGAGCGGCA  
 GCCCTGCATGCCATGCATCCTGACCGGCCCTCGTCATCAAGACCGGCTCCAGTTTAC  
 TACTAAAGTCAGTTGCTGGTCAAATCCCTGAGTTGAATTATCAGCTTAAAATTAAGT  
 GTGCATTGACAAAGACTCTGGGGACGTTGCAGCTCTCAGAGGATCCCGGAAATTTAACAT  
 TCTGGGCACAAACAAAAAGTGAACATGGAAGAATCCAACAACGGCAGCCTCTCTGC  
 AGAATTCAAACACTTGACCCTGAGGGAGCAGAGATGTGGGAATGGGGGCCAGCCAAATTG  
 TGATGCTTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTTTGAGACCGAGGTGTA  
 TCACCAAGGCCTCAAGATTGACCTAGAGACCCACTCCTTGCCAGTTGTGGTGATCTCCAA



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CATCTGT CAGATGCCAAATGCCTGGGCGTCCATCCTGTGGTACAACATGCTGACCAACAA  
 TCCCAAGAATGTAACCTTTTTTACCAAGCCCCAATTGGAACCTGGGATCAAGTGGCCGA  
 GGTCTGAGCTGGCAGTTCTCCTCCACCACCAAGCAGGACTGAGCATCGAGCAGCTGAC  
 TACTGGCAGAGAACTCTGGGACCTGGTGTGAATTATCAGGGTGTGAGATCACATG  
 GGCTAAATTTTGCAAAGAAAACATGGCTGGCAAGGGCTTCTCCTTCTGGGTCTGGCTGGA  
 CAATATCATTGACCTTGTAAGAAAGTACATCCTGGCCCTTTGGAACGAAGGTACATCAT  
 GGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTCCAGGCACCTT  
 CCTGCTAAGATTCAAGTGAAGCAGCAAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAA  
 GGACATCAGCGGTAAGACCCAGATCCAGTCCGTGGAACCATACACAAAGCAGCAGCTGAA  
 CAACATGTCAATTTGCTGAAATCATCATGGGCTATAAGATCATGGATGCTACCAATATCCT  
 GGTGTCTCCACTGGTCTATCTCTATCCTGACATTTCCAAGGAGGAGGCATTGCGAAAGTA  
 TTGTGGCCAGAGAGCCAGGAGCATCCTGAAGCTGACCCAGGTAGCGCTGCCCATACCT  
 GAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACCTGCCGAT  
 GTCCCCCGCACTTTAGATTCTTGTGATGACAGTTTGGAAATAATGGTGAAGGTGCTGAACC  
 CTCAGCAGGAGGGCAGTTTGTAGTCCCTCACCTTTGACATGGAGTTGACCTCGGAGTGCC  
 TACCTCCCCATGTGAGGAGCTGAGAACGGAAGCTGCAGAAAGATACGACTGAGGCGCCT  
 ACCTGCATTCTGCCACCCCTCACACAGCCAAACCCAGATCATCTGAAACTACTAATTTT  
 GTGGTTCCAGATTTTTTTAATCTCCTACTTCTGCTATCTTTGAGCAATCTGGGCACTTT  
 TAAAAATAGAGAAATGAGTGAATGTGGGTGATCTGCTTTTATCTAAATGCAAATAAGGAT  
 GTGTTCTCTGAGACCCATGATCAGGGGATGTGGCGGGGGTGGCTAGAGGGAGAAAAAGG  
 AAATGTCTTGTGTGTTTTGTTCCCTGCCCTCCTTTCTCAGCAGCTTTTTGTTATTGTT  
 GTTGTGTTCTTAGACAAGTGCCTCCTGGTGCCTGCGGCATCCTTCTGCCTGTTTCTGTA  
 AGCAAAATGCCACAGGCCACTATAGCTACATACTCCTGGCATTGCATTTTTAACCTTGC  
 TGACATCCAAATAGAAGATAGGACTATCTAAGCCCTAGGTTTTCTTTTAAATTAAGAAAT  
 AATAACAATTAAGGGCAAAAAAACAATGTATCAGCATAGCCTTTCTGTATTTAAGAACT  
 TAAGCAGCCGGCATGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGCCGAGGCGG  
 ATCATAAGGTCAGGAGATCAAGACCATCC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_139276 unedited  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANNGCTGTTCAACAATTGTATACGACTCCTATAGG  
 CGGCCGCGNAATCGGCACACAGCAGGACCCCGGCTTGGCGCTGTCTCTCCCTCGGCTC  
 GGAGAGGCCCTTCGGCCTGAGGGAGCCTCGCCGCCCGTCCCGGCACACGCGCAGCCCCG  
 GCCTCTCGGCCTCTGCCGAGAAACAGTTGGGACCCCTGATTTTAGCAGGATGGCCCAAT  
 GGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGCTCCATCAGCTCTACAGTG  
 ACAGCTTCCCAATGGAGCTGCGGCAGTTTCTGGCCCTTGGATTGAGAGTCAAGATTGGG  
 CATATGCGGCCAGCAAAGAATCACATGCCACTTTGGTGTTCATAATCTCCTGGGAGAGA  
 TTGACCAGCAGTATAGCCGCTTCTGCAAGAGTGAATGTTCTCTATCAGCACAATCTAC  
 GAAGAATCAAGCAGTTTCTTTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCCGGGA  
 TTGTGGCCCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCC  
 AGCAAGGGGGCCAGGCCAACACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGC  
 TGGAGCAGCACCTTCAAGATGTCCGGAAGAGAGTGCAGGATCTAGAACAAAAATGAAAGT  
 GGTAGAGAATCTCCAGGATGACTTTGATTTCAACTATAAAACCTTAAGAGTCAAGGAGA  
 CATGCCAGATCTGAATGCCAACAACAGTCAAGTACCCCGCACCAAGATGCAGCAGCTGT  
 AACAGATGCTCACTGCGCTCGACAGAATGCGAGAAACATCGTGAGTGAATGCCGGGCT  
 TTGTCAGCGAGTGAGCCCCGCCAA

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_139276 unedited            CGATGATGCACCTTCCGGGCCGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGG            GATCTGTTCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTT            TTTTTTTTTTTTTTTTTTGAACAGAATCTCAAAGTGTGCGCCAGGATGGAGTGCAGTGT            GCAGTGGTGCAATTTTGGCTCACTGCAACCTCCGCCTCTCAGGTTCAAGCGATTCTCCTG            CCTCAGCCTCCCGAGTAGCTGGGACTACAGGCCCCACCACCCACCCCGCTAATTTTTT            GTACTTTTAGTAAAGACGGGGTTTACCCTGTTAGCCCGGATGGTCTTGATCTCCTGACC            TTATGATCCGCCTCGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCATGCCCGG            CTGCTTAAGTTTCTTAAATACCGAAAGGCTATGCTGATACCGTGTTTTTTGCCTTTAAT            TGTATTATTTCTTAATTTAAAAAGAAACCTAGGGCTTAAATAGTCTATCTTCTATTTT            GATGTCAGCCAGGTTAAAAAGTGAATGCCCGGAGTATGTAGCTATAGGTGGGCTGTGGC            ATTTGCTTACAAAAACAGGCAAAAGATGCCGCACGCACCAAGAAGCACTTGTCTAAAAA            CAACAACAACAATAACAAAAAGCCTCTGAAAAAGAGGGGCAGGGGAACAAAAACCAAC            AAAAATTTTTCTTTTTCTTCTTACCCTCCACCCACATCCCCTGGATTTTCGGG            GTCTCAAAGAAAACATTCTTATTTTGTCTTTAGATAAAAGACAATCACACACATTTAC            TCAATTCTCCATTTTAAAAATGCCTTAGTGCCTCCCGATATTCCAATTTGGATAATAAAC            AATTCTGCCACCCCAATTTCTGCTCTCAAATATCTGGGTTTCGCCCTTTGAAGGGT            C</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_139276
<b>Insert Size:</b>	3384 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_139276.2</a> , <a href="#">NP_644805.1</a>
<b>RefSeq Size:</b>	4978 bp
<b>RefSeq ORF:</b>	2313 bp
<b>Locus ID:</b>	6774
<b>UniProt ID:</b>	<a href="#">P40763</a>
<b>Cytogenetics:</b>	17q21.2
<b>Domains:</b>	SH2, STAT
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Adipocytokine signaling pathway, Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the STAT protein family. 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 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. This gene also plays a role in regulating host response to viral and bacterial infections. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (1) represents the longest transcript, and encodes the longest isoform (1).</p>