

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
 GCAGTATAGCCGTTCTGCAAGAGTGAATGTTCTCTATCAGCACAATCTACGAAGAAT
 CAAGCAGTTTCTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCCCGGATTGTGGC
 CCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCCAGCAAGG
 GGCCAGGCCAACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGCTGGAGCA
 GCACCTTCAGGATGTCCGGAAGAGAGTGCAGGATCTAGAACAGAAAATGAAAGTGGTAGA
 GAATCTCCAGGATGACTTTGATTCAACTATAAAACCCTCAAGAGTCAAGGAGACATGCA
 AGATCTGAATGGAACAACCAAGTCAGTGACCAGGCAGAAGATGCAGCAGCTGGAACAGAT
 GCTCACTGCGCTGGACCAGATGCGGAGAAGCATCGTGAGTGAGCTGGCGGGGCTTTTGT
 AGCGATGGAGTACGTGCAGAAACTCTCACGGACGAGGAGCTGGCTGACTGGAAGAGGGC
 GCAACAGATTGCCTGCATTGGAGGCCGCCAACATCTGCCTAGATCGGCTAGAAAACCTG
 GATAACGTCATTAGCAGAATCTCAACTTCAGACCCGTCAACAAATTAAGAAACTGGAGGA
 GTTGCAGCAAAAAGTTTCTACAAGGGGACCCATTGTACAGCACCAGCCGATGCTGGA
 GGAGAGAATCGTGGAGCTGTTTAGAAACTTAATGAAAAGTGCCTTTGTGGTGGAGCGGCA
 GCCCTGCATGCCATGCATCCTGACCGGCCCTCGTCATCAAGACCGGCTCCAGTTTAC
 TACTAAAGTCAGTTTGTGGTCAAATCCCTGAGTTGAATTATCAGCTTAAAATTAAGT
 GTGCATTGACAAAGACTCTGGGGACGTTGCAGCTCTCAGAGGATCCCGGAAATTTAACAT
 TCTGGGCACAAACAAAAAGTGAACATGGAAGAATCCAACAACGGCAGCCTCTCTGC
 AGAATTCAAACACTTGACCCTGAGGGAGCAGAGATGTGGGAATGGGGGCCAGCCAATTG
 TGATGCTTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTTTGAGACCGAGGTGTA
 TCACCAAGGCCTCAAGATTGACCTAGAGACCCACTCCTTGCCAGTTGTGGTGATCTCCAA



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CATCTGTCAGATGCCAAATGCCTGGGCGTCCATCCTGTGGTACAACATGCTGACCAACAA
 TCCCAAGAATGTAACCTTTTTTACCAAGCCCCAATTGGAACCTGGGATCAAGTGGCCGA
 GGTCTGAGCTGGCAGTTCTCCTCCACCACCAAGCAGGACTGAGCATCGAGCAGCTGAC
 TACTGGCAGAGAACTCTGGGACCTGGTGTGAATTATCAGGGTGTGAGATCACATG
 GGCTAAATTTTGCAAAGAAAACATGGCTGGCAAGGGCTTCTCCTTCTGGGTCTGGCTGGA
 CAATATCATTGACCTTGTAAGAAAGTACATCCTGGCCCTTTGGAACGAAGGTACATCAT
 GGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTCCAGGCACCTT
 CCTGCTAAGATTCAAGTAAAGCAGCAAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAA
 GGACATCAGCGGTAAAGCCAGATCCAGTCCGTGGAACCATACACAAAGCAGCAGCTGAA
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 GGTGTCTCCACTGGTCTATCTCTATCCTGACATTTCCAAGGAGGAGGCATTGCGAAAGTA
 TTGTGGCCAGAGAGCCAGGAGCATCCTGAAGCTGACCCAGGTAGCGCTGCCCATACCT
 GAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACCTGCCGAT
 GTCCCCCGCACTTTAGATTCTTGTGATGACAGTTTGGAAATAATGGTGAAGGTGCTGAACC
 CTCAGCAGGAGGGCAGTTTGTAGTCCCTCACCTTTGACATGGAGTTGACCTCGGAGTGGC
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 GTGGTTCCAGATTTTTTTAATCTCCTACTTCTGCTATCTTTGAGCAATCTGGGCACTTT
 TAAAAATAGAGAAATGAGTGAATGTGGGTGATCTGCTTTTATCTAAATGCAAATAAGGAT
 GTGTTCTCTGAGACCCATGATCAGGGGATGTGGCGGGGGTGGCTAGAGGGAGAAAAAGG
 AAATGTCTTGTGTGTTTTGTTCCCTGCCCTCCTTTCTCAGCAGCTTTTTGTTATTGTT
 GTTGTGTTCTTAGACAAGTGCCTCCTGGTGCCTGCGGCATCCTTCTGCCTGTTTCTGTA
 AGCAAAATGCCACAGGCCACTATAGCTACATACTCCTGGCATTGCATTTTTAACCTTGC
 TGACATCCAAATAGAAGATAGGACTATCTAAGCCCTAGGTTTTCTTTTAAATTAAGAAAT
 AATAACAATTAAGGGCAAAAAAACAATGTATCAGCATAGCCTTTCTGTATTTAAGAACT
 TAAGCAGCGGGCATGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGCCGAGGCGG
 ATCATAAGGTCAGGAGATCAAGACCATCC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_139276 unedited
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANNGCTGTTCAACAATTGTATACGACTCCTATAGG
 CGGCCGCGNAATCGGCACACAGCAGGACCCCGGCTTGGCGCTGTCTCTCCCCCTCGGCTC
 GGAGAGGCCCTTCGGCCTGAGGGAGCCTCGCCGCCCGTCCCCGGCACACGCGCAGCCCCG
 GCCTCTCGGCCTCTGCCGGAGAAACAGTTGGGACCCCTGATTTTAGCAGGATGGCCCAAT
 GGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGCTCCATCAGCTCTACAGTG
 ACAGCTTCCCAATGGAGCTGCGGCAGTTTCTGGCCCTTGGATTGAGAGTCAAGATTGGG
 CATATGCGGCCAGCAAAGAATCACATGCCACTTTGGTGTTCATAATCTCCTGGGAGAGA
 TTGACCAGCAGTATAGCCGCTTCTGCAAGAGTGAATGTTCTCTATCAGCACAATCTAC
 GAAGAATCAAGCAGTTTCTTTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCCGGGA
 TTGTGGCCCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCC
 AGCAAGGGGGCCAGGCCAACACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGC
 TGGAGCAGCACCTTCCAGGATGTCCGGAAGAGAGTGCAGGATCTAGAACAAAAATGAAAGT
 GGTAGAGAATCTCCAGGATGACTTTGATTTCAACTATAAAACCTTAAGAGTCAAGGAGA
 CATGCCAGATCTGAATGCCAACAACAGTCAAGTACCCCGCACCAAGATGCAGCAGCTGT
 AACAGATGCTCACTGCGCTCGACAGAATGCGAGAAACATCGTGAGTGAATGCCGGGCT
 TTGTCAGCGAGTGAAGCCCGCAA

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_139276 unedited CGATGATGCACCTTCCGGGCCGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGG GATCTGTTTCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTGAAACAGAATCTCAAAGTGTGCGCCAGGATGGAGTGCAGTGT GCAGTGGTGCAATTTTGGCTCACTGCAACCTCCGCCTCTCAGGTTCAAGCGATTCTCCTG CCTCAGCCTCCCGAGTAGCTGGGACTACAGGCCCCACCACCCACCCCGCTAATTTTTT GTACTTTTAGTAAAGACGGGGTTTACCGTGTTAGCCCGGATGGTCTTGATCTCCTGACC TTATGATCCGCCTCGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCATGCCCGG CTGCTTAAGTTTCTTAAATACCGAAAGGCTATGCTGATACCGTGTTTTTTGCCTTTAAT TGTTATTATTTCTTAATTTAAAAAGAAACCTAGGGCTTAAATAGTCTATCTTCTATTTT GATGTCAGCCAGGTTAAAAAGTGAATGCCCGGAGTATGTAGCTATAGGTGGGCTGTGGC ATTTGCTTACAAAAACAGGCAAAAGATGCCGCACGCACCAAGAAGCACTTGTCTAAAAA CAACAACAACAATAACAAAAAGCCTCTGAAAAAGAGGGGCAGGGGAACAAAAACCAAC AAAAATTTTTCTTTTTCTTCTTACCCCCCAGCCACATCCCCTGGATTTTCGGG GTCTCAAAGAAAACATTCTTATTTGCTTTTAGATAAAAGACAATCACACACATTTAC TCAATTCTCCATTTTAAAAATGCCTTAGTGCCTCCCGATATTCCAATTTGATAATAAAC AATTCTGCCACCCCAATTTTCGTCTCTCAAATATCTGGGTTTCGCCCTTTGAAGGGT C</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_139276
Insert Size:	3384 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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>NM_139276.2</u> , <u>NP_644805.1</u>

RefSeq Size:	4978 bp
RefSeq ORF:	2313 bp
Locus ID:	6774
UniProt ID:	P40763
Cytogenetics:	17q21.2
Domains:	SH2, STAT
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Adipocytokine signaling pathway, Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer
Gene Summary:	<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>