

## Product datasheet for **SC337404**

### STAT5A (NM\_001288720) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAT5A (NM_001288720) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAT5A
Synonyms:	MGF; STAT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001288720, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCTGGATCCAGGCCAGCAGCTGCAGGGAGACGCGCTGCGCCAGATGCAGGTGCTGTACGGCC
AGCACTTCCCATCGAGGTCGGCACTACTTGGCCAGTGGATTGAGAGCCAGCCATGGGATGCCATTGA
CTTGGACAATCCCAGGACAGAGCCCAAGCCACCCAGCTCCTGGAGGGCCTGGTGCAGGAGCTGCAGAAG
AAGGCGGAGACCAGGTGGGGGAAGATGGGTTTTTACTGAAGATCAAGCTGGGGCACTACGCCACGCAGC
TCCAGAAAACATATGACCCTGCCCCCTGGAGCTGGTCCGCTGCATCCGGCACATTCTGTACAATGAACA
GAGGCTGGTCCGAGAAGCCAACAATTGCAGCTCTCCGGCTGGGATCCTGGTTGACGCCATGTCCCAGAAG
CACCTTCAGATCAACCAGACATTTGAGGAGCTGCGACTGGTCACGCAGGACACAGAGAATGAGCTGAAGA
AACTGCAGCAGACTCAGGAGTACTTCATCATCCAGTACCAGGAGAGCCTGAGGATCCAAGCTCAGTTTGC
CCAGCTGGCCAGCTGAGCCCCAGGAGCGTCTGAGCCGGGAGACGGCCCTCCAGCAGAAGCAGGTGTCT
CTGGAGGCTGGTTCAGCGTGAGGCACAGACTGCAGCAGTACCGCTGGAGCTGGCCGAGAAGCACC
AGAAGACCCTGCAGCTGTGCGGAAGCAGCAGACCATCATCCTGGATGACGAGCTGATCCAGTGGAAAGCG
GGGCAGCAGCTGGCCGGGAACGCGGGGCCCCCGAGGGCAGCCTGGACGTGCTACAGTCCCTGGTGTGAG
AAGTTGGCCGAGATCATCTGGCAGAACCAGCAGATCCGCAGGGCTGAGCACCTCTGCCAGCAGCTGC
CCATCCCCGGCCAGTGGAGGAGATGCTGGCCGAGGTCAACGCCACCATCACGGACATTATCTCAGCCCT
GGTGACCAGCACATTCATTGAGAAGCAGCCTCCTCAGGTCCTGAAGACCCAGACCAAGTTTGCAGCC
ACCGTACGCCTGCTGGTGGGCGGGAAGCTGAACGTGCACATGAATCCCCCAGGTGAAGGCCACCATCA
TCAGTGAGCAGCAGGCCAAGTCTCTGCTTAAAAATGAGAACACCCGCAACGAGTGCAGTGGTGAGATCCT
GAACAACCTGCTGCGTGATGGAGTACCACCAAGCCACGGCACCCTCAGTGCCACTTCAGGAACATGTCA
CTGAAGAGGATCAAGCGTGTGACCGGGGGTGCAGAGTCCGTGACAGAGGAGAAGTTCACAGTCCCTGT
TTGAGTCTCAGTTCAGTGTGGCAGCAATGAGCTTGTGTTCCAGGTGAAGGGCAGGGTGCCATTTGCCGT
GCCTGACAAAGTGTGTGGCCGAGCTGTGTGAGGCGCTCAACATGAAATTCAAGGCCGAAGTGCAGAGC
AACCAGGGCTGACCAAGGAGAACCCTGTTCTGGCGCAGAACTGTTCAACAACAGCAGCAGCCACC
TGGAGGACTACAGTGGCCTGTCCGTGCTGGTCCCAGTTC AACAGGGAGA AACTGCCGGCTGGA ACTA
CACCTTCTGGCAGTGGTTTACGGGGTGTGGAGGTGTTGAAGAAGCACCACAAGCCCCACTGGAATGAT
GGGGCCATCCTAGGTTTTGTGAATAAGCAACAGGCCACGACCTGCTCATCAACAAGCCCCAGGGACCT
TCTTGTTCGCTTGTAGTACTCAGAAATCGGGGCATCACCATCGCTGGAAGTTTACTCCCCGGAACG
CAACCTGTGGAACCTGAAACCATTACCCACGCGGGATTTCTCCATCAGGTCCTGGCTGACCGGCTGGGG
GACCTGAGCTATCTCATCTATGTGTTTCTGACGCCCAAGGATGAGGTCTTCTCAAGTACTACTC
CTGTGCTGGCTAAAGCTGTTGATGGATATGTGAAACCACAGATCAAGCAAGTGGTCCCTGAGTTTGTGAA
TGCATCTGCAGATGCTGGGGCAGCAGCGCCACGTACATGGACCAGGCCCTCCCAGCTGTGTGCCCC
CAGGCTCCCTATAACATGTACCCACAGAACCCTGACCATGTACTCGATCAGGATGGAGAATTCGACCTGG
ATGAGACCATGGATGTGGCCAGGCACGTGGAGGAACTCTACGCCGACCAATGGACAGTCTTGACTCCCC
CCTCTCGCCCCCTGCCGGTCTTTACCTCTGCCAGAGGCTCCCTCTCA TGA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001288720

**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).

**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).

<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_001288720.1</a></u> , <u><a href="#">NP_001275649.1</a></u>
<b>RefSeq Size:</b>	4132 bp
<b>RefSeq ORF:</b>	2292 bp
<b>Locus ID:</b>	6776
<b>UniProt ID:</b>	<u><a href="#">P42229</a></u>
<b>Cytogenetics:</b>	17q21.2
<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>	Acute myeloid leukemia, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer
<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 is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2013]</p> <p>Transcript Variant: This variant (4) lacks an in-frame coding exon in the 3' region compared to variant 1. The resulting shorter isoform (3) lacks an internal protein segment compared to isoform 1.</p>