

Product datasheet for **SC108848**

STAT2 (NM_005419) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAT2 (NM_005419) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAT2
Synonyms:	IMD44; ISGF-3; P113; PTORCH3; STAT113
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005419, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCAGTGGGAAATGCTGCAGAATCTTGACAGCCCCTTTAGGATCAGCTGCACCAGCTTTACTCGC
ACAGCCTCTGCCTGTGGACATTCGACAGTACTGGCTGTCTGGATTGAAGACCAGAAGTGGCAGGAAGC
TGCACTTGGGAGTGATGATTCCAAGGCTACCATGCTATTCTTCCACTTCTTGGATCAGCTGAACTATGAG
TGTGGCCGTTGCAGCCAGGACCCAGAGTCTTGTGCTGCAGCACAATTTGCGGAAATCTGCCGGGACA
TTCAGCCCTTTTCCAGGATCCTACCCAGTTGGCTGAGATGATCTTTAACCTCCTTCTGGAAGAAAAAAG
AATTTTGTATCCAGGCTCAGAGGGCCCAATTGGAACAAGGAGAGCCAGTTCTCGAAACACCTGTGGAGAGC
CAGCAACATGAGATTGAATCCCGGATCTGGATTTAAGGGCTATGATGGAGAAGCTGGTAAAAATCCATCA
GCCAACTGAAAGACCAGCAGGATGTCTTCTGCTCCGATATAAGATCCAGGCCAAAGGGAAGACACCCTC
TCTGGACCCCATCAGACCAAAGAGCAGAAGATTCTGCAGGAACTCTCAATGAACTGGACAAAAGGAGA
AAGGAGGTGCTGGATGCCTCAAAGCACTGCTAGGCCGATTAACCTACCCTAATCGAGCTACTGCTGCCAA
AGTTGGAGGAGTGAAGGCCAGCAGAAAAAGCCTGCATCAGAGCTCCCATTGACCACGGGTTGGAACA
GCTGGAGACATGGTTACAGCTGGAGCAAAGCTGTTGTTTACCTGAGGCAGCTGCTGAAGGAGCTGAAG
GGACTGAGTTGCCTGGTTAGCTATCAGGATGACCTCTGACCAAAGGGGTGGACCTACGCAACGCCCAGG
TCACAGAGTTGCTACAGCGTCTGCTCCACAGAGCCTTGTGGTAGAAACCCAGCCCTGCATGCCCAAAC
TCCCCATCGACCCCTCATCCTCAAGACTGGCAGCAAGTTCACCGTCCGAACAAGGCTGCTGGTGAGACTC
CAGGAAGGCAATGAGTCACTGACTGTGGAAGTCTCCATTGACAGGAATCCTCCTCAATTACAAGGCTTCC
GGAAGTTCAACATTCTGACTTCAAACAGAAAACTTTGACCCCGAGAAGGGGCAGAGTCAGGGTTTGAT
TTGGGACTTTGGTTACCTGACTCTGGTGGAGCAACGTTACAGTGGTTGAGGAAAGGGCAGCAATAAGGGG
CCACTAGGTGTGACAGAGGAAGTGCACATCAGCTTACGCTTCAAGTAAATACCTACCAGGCTGAAAG
AGGAGCTGAAAAACGGACACCCTCCTGTGGTGATTATTTCCAACATGAACCAGCTCTCAATTGCCTGGGC
TTCAGTTCTCTGGTTCAATTTGCTCAGCCCAAACCTTCAGAACCAGCAGTTCTTCTCCAACCCCCCAAG
GCCCTGGAGCTTGCTGGGCCCTGCTCTCAGTTGGCAGTTCTCCTCCTATGTTGGCCGAGGCTCAACT
CAGACCAGCTGAGCATGCTGAGAAACAAGCTGTTGCGGCAGAACTGTAGGACTGAGGATCCATTATTGTC
CTGGGCTGACTTCACTAAGCGAGAGAGCCCTCCTGGCAAGTTACCATTCTGGACATGGCTGGACAAAATT
CTGGAGTTGGTACATGACCACCTGAAGGATCTCTGGAATGATGGACGCATCATGGGCTTTGTGAGTCGGA
GCCAGGAGCGCCGCTGCTGAAGAAGACCATGTCTGGCACCTTTCTACTGCGCTTCAGTGAATCGTCAGA
AGGGGGCATTACCTGCTCCTGGGTGGAGCACCAGGATGATGACAAGGTGCTCATCTACTCTGTGCAACCG
TACACGAAGGAGGTGCTGCACTCACTCCCGCTGACTGAAATCATCCGCCATTACCAGTTGCTCACTGAGG
AGAATATACCTGAAAACCACTGCGCTTCTCTATCCCCGAATCCCCGGGATGAAGCTTTTGGGTGCTA
CTACCAGGAGAAAGTTAATCTCCAGGAACGGAGGAAATACCTGAAACACAGGCTCATTGTGGTCTCTAAT
AGACAGGTGGATGAACTGCAACAACCGCTGGAGCTTAAGCCAGAGCCAGAGCTGGAGTCATTAGAGCTGG
AACTAGGGCTGGTGCCAGAGCCAGAGCTCAGCCTGGACTTAGAGCCACTGCTGAAGGCAGGGCTGGATCT
GGGGCCAGAGCTAGAGTCTGTGCTGGAGTCCACTCTGGAGCCTGTGATAGAGCCCACTATGCATGGTA
TCACAAACAGTGCCAGAGCCAGACCAAGGACCTGTATCACAGCCAGTGCCAGAGCCAGATTTGCCCTGTG
ATCTGAGACATTTGAACACTGAGCCAATGGAAATCTTCAGAACTGTGTAAGATTGAAGAAATCATGCC
GAATGGTGACCCACTGTTGGCTGGCCAGAACCGTGGATGAGGTTTACGCTCTCCCGCCAGCCACTTC
TACACTGATGGACCTTGATGCCTTCTGACTTCTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005419 unedited</p> <pre> ACGTACAACATTTTGTAAATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGTTGA CTGAATGGCAGCCAGTGTCTGGGGTGGCGGCTGGGAATGGGGGCCGCTCCGGACTCCGCT GCCAACTACAAGGGGGCGGGTCCGAGGGGGGTTAGCCGAAGTTGTAGGCGGGGCGCGAGG TTCTAGTACCCGAGCTCATACTATGGACGGGAAGTCGCGACCAGAGCCATTGGAGGGCGC GGGACTGCAACCCTAATCAGAGCCAAATGGCGCAGTGGGAAATGCTGCAGAATCTTGA CAGCCCCTTTCAGGATCAGCTGCACCAGCTTTACTCGCACAGCCTCCTGCCTGTGGACAT TCGACAGTACTTGGCTGTCTGGATTGAAGACCAGAACTGGCAGGAAGCTGCACTTGGGAG TGATGATTCCAAGGCTACCATGCTATTCTTCCACTTCTTGGATCAGCTGAACTATGAGTG TGGCCGTGTCAGCCAGGACCCAGAGTCCTTGTGCTGCAGCACAAATTTGCGGAAATCTG CCGGGACATTCAGCCCTTTCCAGGATCCTACCCAGTTGGTGAGATGATCTTTAACCT CCTTCTGGAAGAAAAAGAATTTTGTCCAGGCTCAGAGGGCCCAATTGGAACAAGGAGA GCCAGTTCTCGAAACACCTGTGGAGAGCCAGCAACATGAGATTGAATCCCGGATCCTGGA TTTAAGGGCTATGATGGAGAAGCTGGTAAAATCCATCAGCCAACCTGAAAGACCAGCAGGA TGTCTTCTGCTTNCGATATAAGATCCANGCCAAAGGGAAGACACCCTCTCTGGACCCCA TCAGACCANAGAGCAGAAGATTCTGCAGGATACTCTCAATGACTGGACATATGAGATAGG GAGTGCTGGATGCCTNCAAGCACTGCTAGGCCG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005419 unedited</p> <pre> CGTAAGATCTCTTGGGCGATGGTCAACTCCCAGTGTCCAGTGATAGGCACTGGAGGAAG GGGCTCACAGGGCATGCCACCCGGGTTCTGTTCCAGGAAACAGCTATGACCCGGCCGCAA TCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTCCAGATCAGCACAAAGTTTATTAGCC ATTTCTGCTCAAAAGAGCCCTTTCTGAACAGGACTGTTCTCTGACATAACAGACAAGA AACAGCCACCTGTGCAGGGCCTTTCTTTATATCTCAAGCTACATCAGGAGAACATCTTG GAGCAATGTCAGTTGCCCTGGGGTCCCTGGGAATAGCTAAGGTGTGAGATTGTCAG AGTCTATGACAGACCTCAAGGTTTTAAGTCCACAGACTTGGACTTTGTCAGGTCCA CAACCAACGAATAGAAACCTTCTTTCCAGTAAACAACATATTGTACAAAAAGGGAGGA TGATAACATAATAGAGAAAGAGCTAAGACCCATTGCTTCTCTCTGTAAAAACACCAAAC TTTATCCAATACTATAAAAAAGAAATTCCTGCTGGGAACAGTGGCTCACGCCTGTAATCC CAGTCTCTGGGAGGGCAAGAGATATGAAAAGAACAGAGGAAATGTGGTTCCTAGAAATTC AGAAGGCATCAAGGGTCCATCAGTGTAGAAGTGGCTGGGGCGGGAGACGTAACATCATC CACGGTGTCTGGCCAGCCAACAGTGGGTACCATTCCGGCATGATTTCTCAATCTTTAC ACAGTTTCTGAAGATTTCCATTGGCTCAGTGTCAAATGTCTCATATCACAGGGCAAATC TGGCTCTGGGACTGGCTGTGATACAGTCCCTTGGTCTGGCTCTGGCACTGTTTGTGATAC CCTGCATAGTGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005419
Insert Size:	3200 bp
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).

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:	NM_005419.1 , NP_005410.1
RefSeq Size:	4576 bp
RefSeq ORF:	2556 bp
Locus ID:	6773
UniProt ID:	P52630
Cytogenetics:	12q13.3
Domains:	SH2, STAT
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Chemokine signaling pathway, Jak-STAT signaling pathway
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. In response to interferon (IFN), this protein forms a complex with STAT1 and IFN regulatory factor family protein p48 (ISGF3G), in which this protein acts as a transactivator, but lacks the ability to bind DNA directly. The protein mediates innate antiviral activity. Mutations in this gene result in Immunodeficiency 44. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>