

Product datasheet for **SC329176**

STAT2 (NM_198332) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAT2 (NM_198332) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAT2
Synonyms:	IMD44; ISGF-3; P113; PTORCH3; STAT113
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_198332, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCAGTGGGAAATGCTGCAGAATCTTGACAGCCCCTTTCAGGATCAGCTGCACCAG
CTTTACTCGCACAGCCTCCTGCCTGTGGACATTCGACAGTACTTGGCTGTCTGGATTGAA
GACCAGAACTGGCAGGAAGCTGCACTTGGGAGTGATGATTCCAAGGCTACCATGCTATTC
TTCCACTTCTTGGATCAGCTGAACTATGAGTGTGGCCGTTGCAGCCAGGACCCAGAGTCC
TTGTTGTGTCAGCACAAATTTGCGGAAATCTGCCGGGACATTTCAGGATCCTACCCAGTTG
GCTGAGATGATCTTTAACCTCCTTCTGGAAGAAAAAGAATTTTATCCAGGCTCAGAGG
GCCAATTGGAACAAGGAGAGCCAGTTCTCGAAACACCTGTGGAGAGCCAGCAACATGAG
ATTGAATCCCGGATCCTGGATTTAAGGGCTATGATGGAGAAGCTGGTAAAATCCATCAGC
CAACTGAAAGACCAGCAGGATGTCTTCTGCTTCCGATATAAGATCCAGGCCAAAGGGAAG
ACACCCTCTCTGGACCCCATCAGACCAAAGAGCAGAAGATTCTGCAGGAACTCTCAAT
GAACTGGACAAAAGGAGAAAGGAGGTGCTGGATGCCTCAAAGCACTGCTAGGCCGATTA
ACTACCCTAATCGAGCTACTGCTGCCAAAGTTGGAGGAGTGAAGGCCCAGCAGCAAAAA
GCCTGCATCAGAGCTCCCATTGACCACGGGTTGGAACAGCTGGAGACATGTTTCACAGCT
GGAGCAAAGCTGTTGTTTACCTGAGGCAGCTGCTGAAGGAGCTGAAGGGACTGAGTTGC
CTGTTAGCTATCAGGATGACCCTCTGACCAAAGGGGTGGACCTACGCAACGCCAGGTC
ACAGAGTTGCTACAGCGTCTGCTCCACAGAGCCTTTGTGGTAGAAACCCAGCCCTGCATG
CCCCAACTCCCATCGACCCCTCATCCTCAAGACTGGCAGCAAGTTCACCGTCCGAACA
AGGCTGCTGGTGAGACTCCAGGAAGGCAATGAGTCACTGACTGTGGAAGTCTCCATTGAC
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CTGGTGGAGCAACGTTTCAGGTGGTTTCAGGAAAGGGCAGCAATAAGGGGCCACTAGGTGTG
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GAGCTGAAAACGACACCCTCCCTGTGGTGATTATTTCCAAATGAACCGCTCTCAATT
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TTCTCAAACCCCCCAAGGCCCTGGAGCTTGTGGCCCTGCTCTCAGTTGGCAGTTC
TCCTCCTATGTTGGCCGAGGCTCAACTCAGACCAGCTGAGCATGCTGAGAAACAAGCTG
TTCGGGCAGAACTGTAGGACTGAGGATCCATTATTGCTCTGGGCTGACTTACTAAGCGA
GAGAGCCCTCCTGGCAAGTTACCATTCTGGACATGGCTGGACAAAATTCTGGAGTTGGTA
CATGACCACCTGAAGGATCTCTGGAATGATGGACGCATCATGGGCTTTGTGAGTCGGAGC
CAGGAGCCCGGCTGCTGAAGAAGACCATGTCTGGCACCTTCTACTGCGCTTCAGTGAA
TCGTGAGAAGGGGGCATTACCTGCTCCTGGGTGGAGCACCAGGATGATGACAAGGTGCTC
ATCTACTCTGTGCAACCGTACACGAAGGAGGTGCTGCAGTCACTCCCGCTGACTGAAATC
ATCCGCCATTACCAGTTGCTCACTGAGGAGAATATACCTGAAAACCCACTGCGCTTCCTC
TATCCCGAATCCCCGGGATGAAGCTTTTGGGTGCTACTACCAGGAGAAAAGTTAATCTC
CAGGAACGGAGGAAATACCTGAAACACAGGCTCATTGTGGTCTCTAATAGACAGGTGGAT
GAACTGCAACAACCGCTGGAGCTTAAGCCAGAGCCAGAGCTGGAGTCATTAGAGCTGGAA
CTAGGGCTGGTGCCAGAGCCAGAGCTCAGCCTGGACTTAGAGCCACTGCTGAAGGCAGGG
CTGGATCTGGGGCCAGAGCTAGAGTCTGTGCTGGAGTCCACTCTGGAGCCTGTGATAGAG
CCCACACTATGCATGGTATCACAAACAGTGCCAGAGCCAGACCAAGGACCTGTATCACAG
CCAGTGCCAGAGCCAGATTTGCCCTGTGATCTGAGACATTTGAACACTGAGCCAATGGAA
ATCTTCAGAACTGTGTAAGATTGAAGAAATCATGCCGAATGGTGACCCACTGTTGGCT
GGCCAGAACACCGTGGATGAGGTTTACGCTCTCCCGCCAGCCACTTCTACTACTGATGGA
CCCTTGATGCCTTCTGACTTCTAG
    
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Restriction Sites: Please inquire

ACCN: NM_198332

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).
OTI Annotation:	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.
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_198332.1</u> , <u>NP_938146.1</u>
RefSeq Size:	4564 bp
RefSeq ORF:	2544 bp
Locus ID:	6773
UniProt ID:	<u>P52630</u>
Cytogenetics:	12q13.3
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 (2) uses an alternate in-frame splice site, compared to variant 1. The resulting isoform (2) lacks an internal 4-aa segment, compared to isoform 1.</p>