

Product datasheet for **RC230538**

STAT2 (NM_198332) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAT2 (NM_198332) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STAT2
Synonyms:	IMD44; ISGF-3; P113; PTORCH3; STAT113
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230538 representing NM_198332
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGTGGGAAATGCTGCAGAATCTTGACAGCCCCTTTCAGGATCAGCTGCACCAGCTTTACTCGC
 ACAGCCTCCTGCCTGTGGACATTCGACAGTACTTGGCTGTCTGGATTGAAGACCAGAAGTGCAGGAAGC
 TGCACTTGGGAGTGATGATTCCAAGGCTACCATGCTATTCTTCCACTTCTTGATCAGCTGAACTATGAG
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 GGCTCAGAGGGCCCAATTGGAACAAGGAGAGCCAGTTCTCGAAACACCTGTGGAGAGCCAGCAACATGAG
 ATTGAATCCCGGATCCTGGATTTAAGGGCTATGATGGAGAAGCTGGTAAAATCCATCAGCCAAGTAAAG
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 TCAGACCAAAGAGCAGAAGATTCTGCAGGAACTCTCAATGAACGGACAAAAGGAGAAAGGAGGTGCTG
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 GTTCACAGCTGGAGCAAAGCTGTTGTTTACCTGAGGCAGCTGCTGAAGGAGCTGAAGGGACTGAGTTGC
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 GCATGCTGAGAAACAAGCTGTTCCGGCAGAACTGTAGGACTGAGGATCCATTATTGCTGGGCTGACTT
 CACTAAGCAGAGAGCCCTCCTGGCAAGTTACCATTCTGGACATGGCTGGACAAAATCTGGAGTTGGTA
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 CCCTTGATGCCTTCTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230538 representing NM_198332
 Red=Cloning site Green=Tags(s)

MAQWEMLQNLDSPFQDQLHQLYSHSLLPVDIRQYLAVWIEDQNWQEAALGSDDSKATMLFFHFLDQLNYE
 CGRCSQDPESLLLQHNLRKFCRDIQDPTQLAEMIFNLLLEEKRILIQAQRAQLEQGEPVLETPVESQOHE
 IESRILDLRAMMEKLVKISQLKDQDVF CFRYKIQAKGKTPSLDPHQTKAQKILQETLNELDKRRKEVL
 DASKALLGRLTTLIELLLPKLEEWKAQQKACIRAPIDHGLEQLETWFTAGAKLLFHLRQLLKLKGLSC
 LVSQDDPLTKGVDLRNAQVTELLQRLLRHAFV VETQPCMPQTPHRPLILKTGSKFTVRTRLLVRLQEGN
 ESLTVEVSIDRNPPQLQGFRKFNILTSNQKLTPEKGQSQGLI WDFGYLTLVEQRS GSGKGSNKGPLGV
 TEELHIISFTVKYTYQGLKQELKTDLPVVIISNMNQLSIAWASVLFNLLSPNLQNGQFFSNPPKAPWS
 LLGPALSWQFSSYVGRGLNSDQLSMLRNKLFQNCRTEDPLL SWADFTKRESPPGKLPFWTWLDKILELV
 HDHLKDLWNDGRIMGFVSRSQERRLLKKTMSGTFLLRFSESSEGGITCSWVEHQDDDKVL IYSVQPYTKE
 VLQSLPLTEIIRHYQLL TEENIPENPLRFLYPRIPRDEAFGCYYQEKVNLQERRKYLKHRLIVVSNRQVD
 ELQQPLELKPEPELESLELELGLVPEPELSLDLEPLLKAGLDLGPELESVLESTLEPVIEPTLCMVSTQTV
 PEPDQGPVSPVPEPDLPCDLRHLNTEPMEIFRNCVKIEEIMPNGDPLL AGQNTVDEVVYSRPSHFYTDG
 PLMP SDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

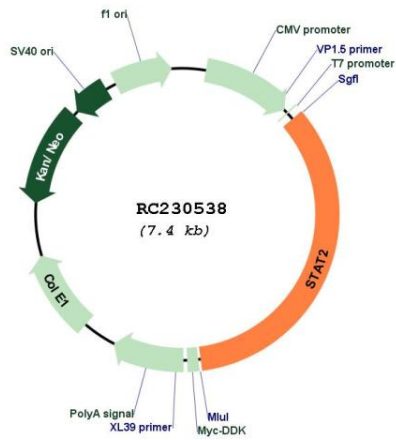
SgfI-MluI

Cloning Scheme:



ACCN:	NM_198332
ORF Size:	2541 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_198332.2
RefSeq ORF:	2544 bp
Locus ID:	6773
UniProt ID:	P52630
Cytogenetics:	12q13.3
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Chemokine signaling pathway, Jak-STAT signaling pathway
MW:	97.9 kDa
Gene Summary:	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]

Product images:



Circular map for RC230538