

Product datasheet for **RG208592**

STAT2 (NM_005419) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAT2 (NM_005419) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STAT2
Synonyms:	IMD44; ISGF-3; P113; PTORCH3; STAT113
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208592 representing NM_005419
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCAGTGGAAATGCTGCAGAATCTTGACAGCCCCTTTCAGGATCAGCTGCACCAGCTTTACTCGC
 ACAGCCTCCTGCCTGTGGACATTCGACAGTACTTGGCTGTCTGGATTGAAGACCAGAAGTGGCAGGAAGC
 TGCACTTGGGAGTGATGATTCCAAGGCTACCATGCTATTCTTCCACTTCTTGATCAGCTGAACTATGAG
 TGTGGCCGTTGCAGCCAGGACCCAGAGTCTTGTGTGCTGCAGCACAATTTGCGGAAATCTGCCGGGACA
 TTCAGCCCTTTTCCAGGATCCTACCCAGTTGGCTGAGATGATCTTTAACCTCCTTCTGGAAGAAAAAAG
 AATTTTGTATCCAGGCTCAGAGGGCCCAATTGGAACAAGGAGAGCCAGTTCTCGAAACACCTGTGGAGAGC
 CAGCAACATGAGATTGAATCCCGGATCCTGGATTTAAGGGCTATGATGGAGAAGCTGGTAAAATCCATCA
 GCCAACTGAAAGACCAGCAGGATGTCTTCTGCTCCGATATAAGATCCAGGCCAAAGGGAAGACACCCTC
 TCTGGACCCCATCAGACCAAAGAGCAGAAGATTCTGCAGGAACTCTCAATGAACTGGACAAAAGGAGA
 AAGGAGGTGCTGGATGCCTCCAAAGCACTGCTAGGCCGATTAACCTACCCTAATCGAGCTACTGCTGCCAA
 AGTTGGAGGAGTGAAGGCCAGCAGCAAAAAGCTGCATCAGAGCTCCCATTGACCACGGGTTGGAACA
 GCTGGAGACATGGTTCACAGCTGGAGCAAAGCTGTTGTTTACCTGAGGCAGCTGCTGAAGGAGCTGAAG
 GGACTGAGTTGCCTGGTTAGCTATCAGGATGACCCTCTGACCAAAGGGTGGACCTACGCAACGCCCAGG
 TCACAGAGTTGCTACAGCGTCTGCTCCACAGAGCCTTTGTGGTAGAAACCCAGCCCTGCATGCCCAAAC
 TCCCCATCGACCCTCATCCTCAAGACTGGCAGCAAGTTCACCGTCCGAACAAGGCTGCTGGTGAGACTC
 CAGGAAGGCAATGAGTCACTGACTGTGGAAGTCTCCATTGACAGGAATCCTCCTCAATTACAAGGCTTCC
 GGAAGTTCAACATTTGACTTCAAACAGAAAATTTGACCCCGAGAAGGGGCAGAGTCAGGGTTTGAT
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 CCACTAGGTGTGACAGAGGAACTGCACATCATCAGCTTACGGTCAAATATACCTACCAGGGTCTGAAGC
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 GCCCCTGGAGCTTGTGGGCCCTGCTCTCAGTTGGCAGTTCTCCTCCTATGTTGGCCGAGGCTCAACT
 CAGACCAGCTGAGCATGTGAGAAACAAGCTGTTGGGAGCAACTGTAGGACTGAGGATCCATTATTGTC
 CTGGGCTGACTTCACTAAGCGAGAGAGCCCTCCTGGCAAGTTACCATTCTGGACATGGCTGGACAAAATT
 CTGGAGTTGGTACATGACCACCTGAAGGATCTCTGGAATGATGGACGCATCATGGGCTTTGTGAGTCGGA
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 AGAATATACCTGAAAACCCACTGCGCTTCTCTATCCCCGAATCCCCGGGATGAAGCTTTTGGGTGCTA
 CTACCAGGAGAAAGTTAATCTCCAGGAACGGAGGAAATACCTGAAACACAGGCTCATTGTGGTCTTAAT
 AGACAGGTGGATGAACTGCAACAACCGCTGGAGCTTAAGCCAGAGCCAGAGCTGGAGTCATTAGAGCTGG
 AACTAGGGCTGGTGCCAGAGCCAGAGCTCAGCCTGGACTTAGAGCCACTGCTGAAGGCAGGGCTGGATCT
 GGGGCCAGAGCTAGAGTCTGTGCTGGAGTCCACTCTGGAGCCTGTGATAGAGCCACACTATGCATGGTA
 TCACAAAACAGTGCCAGAGCCAGACCAAGGACCTGTATCACAGCCAGTGCCAGAGCCAGATTTGCCCTGTG
 ATCTGAGACATTTGAACACTGAGCCAATGGAAATCTTCAGAAAATGTGTAAGATTGAAGAAATCATGCC
 GAATGGTGACCCACTGTTGGCTGGCCAGAACACCGTGGATGAGGTTTACGTCTCCCGCCCGACCACTTC
 TACTGATGGACCCTTGATGCCTTCTGACTTC

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG208592 representing NM_005419
Red=Cloning site Green=Tags(s)

MAQWEMLQNLDSPPFQDQLHQLYSHSLLPVDIRQYLAVWIEDQNWQEAALGSDDSKATMLFFHFLDQLNVE
CGRCSQDPESLLLQHNLRKFCRDIQPFSSQDPTQLAEMIFNLLLEEKRILIQAQRAQLEQGEVLETPVES
QQHEIESRILDLRAMMEKLVKSISQLKDQDVFVCFRYKIQAKGKTPSLDPHQTKEQKILQETLNELDKRR
KEVLDASKALLGRLTTLIELLLPKLEEWKAQQQKACIRAPIDHGLEQLEWFTAGAKLLFHLRQLLKELK
GLSCLVSYQDDPLTKGVDLRNAQVTELLQRLHRAFVVEVTPCMTQTPHRPLILKTGSKFTVTRLLVRL
QEGNESLTVESIDRNPPQLQGFRKFNILTSNQKTLTPEKGQSQGLIWDGFLTLVEQRSGGSGKGSNKG
PLGVTEELHIISFTVKYTYQGLKQELKTDLPVVIISNMNQLSIAWASVLWFNLLSPNLQNNQFFSNPPK
APWSLLGPALSWQFSSYVGRGLNSDQLSMLRNKLFQNCRTEDPLL SWADFTKRESPPGKLPFWTWLDKI
LELVHDHLKDLWNDGRIMGFVSRSQERRLLKKTMSGTFLLRFSESSEGGITCSWVEHQDDDKVLIYSVQP
YTKEVLQSLPLTEIIRHYQLL TEENIPENPLRFLYPRIPRDEAFGCYYQEKVNLQERRKYLKHRLIVVSN
RQVDELQQLPELEKPEPELESLELELGLVPEPELSLDLEPLLKAGLDL GPELESVLESTLEPVIEPTLCMV
SQTVPPEPDQGPVSPVPEPDLPCDLRHLNTEPMEIFRNCVKIEEIMPNGDPLL AGQNTVDEYVYSRPSHF
YTDGPLMPSDF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Reconstitution Method:

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_005419.4](#)

RefSeq Size: 4451 bp

RefSeq ORF: 2556 bp

Locus ID: 6773

UniProt ID: [P52630](#)

Cytogenetics: 12q13.3

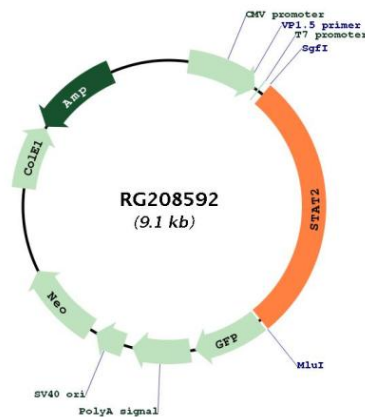
Domains: SH2, STAT

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Chemokine signaling pathway, Jak-STAT signaling pathway

Gene Summary: 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 RG208592