

Product datasheet for **RG239581**

STAT5A (NM_001288718) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAT5A (NM_001288718) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STAT5A
Synonyms:	MGF; STAT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239581 representing NM_001288718.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGGCTGGATCCAGGCCAGCAGCTGCAGGGAGACGCGCTGCGCCAGATGCAGGTGCTGTACGGC
CAGCAGTTCGCCATCGAGGTCGGCACTTTGGCCAGTGGATTGAGAGCCAGCCATGGGATGCCATT
GACTTGGACAATCCCAGGACAGAGCCCAAGCCACCAGCTCCTGGAGGGCTGGTGCAGGAGCTGCAG
AAGAAGCGGAGCACCAGGTGGGGGAAGATGGGTTTTTACTGAAGATCAAGCTGGGGCACTACGCCACG
CAGCTCCAGAAAACATATGACCGCTGCCCCCTGGAGCTGGTCCGCTGCATCCGGCACATTCTGTACAAT
GAACAGAGGCTGGTCCGAGAAGCCAACAATTGCAGCTCTCCGGCTGGGATCCTGGTTGACCCATGTCC
CAGAAGCACCTTCAGATCAACCAGACATTTGAGGAGCTGCGACTGGTACGACAGGACACAGAGAATGAG
CTGAAGAACTGCAGCAGACTCAGGAGTACTTCATCATCCAGTACCAGGAGAGCCTGAGGATCCAAGCT
CAGTTTGGCCAGCTGGCCAGCTGAGCCCCAGGAGCGTCTGAGCCGGGAGACGGCCCTCCAGCAGAAG
CAGGTGTCTCTGGAGGCCTGGTTCAGCGTGAGGCACAGACACTGCAGCAGTACCGCGTGGAGCTGGCC
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CAGTGGAAAGCGGCGCAGCAGCTGGCCGGGAACGGCGGGCCCCCGAGGGCAGCCTGGACGTGCTACAG
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TCAGAAATCGGGGCGATCACCATCGCCTGGAAGTTTGACTCCCCGGAACGCAACCTGTGGAACCTGAAA
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GTTGATGGATATGTGAAACCACAGATCAAGCAAGTGGTCCCTGAGTTTGTGAATGCATCTGCAGATGCT
GGGGCAGCAGCGCCACGTACATGGACCAGGCCCTCCAGCTGTGTGCCCCAGGCTCCCTATAAC
ATGTACCACAGAACCCTGACCATGTACTCGATCAGGATGGAGAATTCGACCTGGATGAGACCATGGAT
GTGGCCAGGCACGTGGAGGAAGTCTTACGCCGACCAATGGACAGTCTTACTCCCGCCTCTCGCCCCCT
GCCGGTCTTTTACCTCTGCCAGAGGCTCCCTCTCA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239581
 Blue=ORF Red=Cloning site Green=Tag(s)

MAGWIIQAQQLQGDALRQMQLVYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRAQATQLLEGLVQELQ
 KKAHQVGEDGFLKIKLGHYATQLQKTYDRCPLELVRCIRHILYNEQRLVREANNCSSPAGILVDAMS
 QKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLSPQERLSRETALQOK
 QVSLQEAWLQREAOQLQYRVELAEKHQKTLQLLRKQQTIIIDDELQWKRRQQLAGNGGPPPEGLDVLQ
 SWCEKLAETIIWQNRQQIRRAEHLQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIKQPPQVLKTQ
 TKFAATVRLLVGGKLVNVMNPPQVKATIISEQQAKSLLKNENTRNECSGEILNNCCVMEYHQATGTLSA
 HFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFVSGSNELVFQVKTLSLPVVVIVHGSQDHNATATVL
 WDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLS
 VSWSQFNRENLPGWNYTFWQWFDGVMVLLKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSD
 SEIGGITIAWKFDSPERNLWNLKPFTRDFSIRSLADRLGDLSYLIYVFPDRPKDEVFSKYYPVLAKA
 VDGYYKPKQIKQVPEFVNASADAGGSSATYMDQAPSPAVCPQAPYNYMYPQNPDHVLDQDGEFDLDETM
 VARHVEELLRRPMDSLDRLSPPAGLFTSARGSL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:

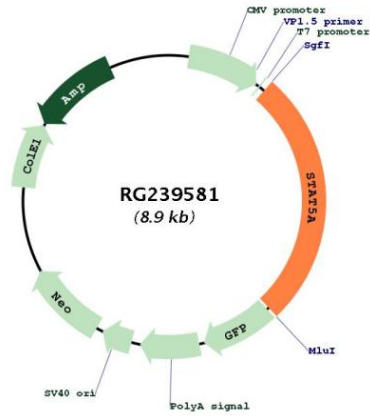


ACCN: NM_001288718

ORF Size: 2382 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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).
RefSeq:	NM_001288718.1 , NP_001275647.1
RefSeq Size:	4414 bp
RefSeq ORF:	2385 bp
Locus ID:	6776
UniProt ID:	P42229
Cytogenetics:	17q21.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer
MW:	91.1 kDa
Gene Summary:	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]

Product images:



Circular map for RG239581