

## Product datasheet for **RG239510**

### **STAT5A (NM\_001288720) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	STAT5A (NM_001288720) 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:**

>RG239510 representing NM\_001288720.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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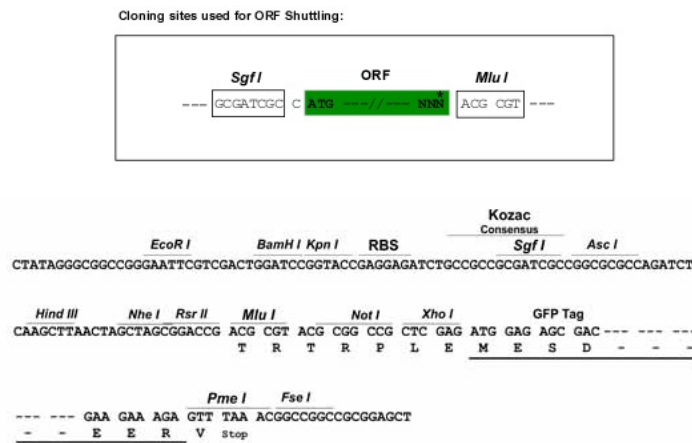
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GGCTCCCTCTCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

**Protein Sequence:** >Peptide sequence encoded by RG239510  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAGWIIQAQQLQGDALRQMQLVYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRAQATQLLEGLVQELQ  
 KKAHEHQVGEDGFLKIKLGHYATLQKTYDRCPLELVRCIRHILYNEQRLVREANNCS SPAGILVDAMS  
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 SWCEKLAETI IWQNRQQIRRAEHL CQQLPIPGPVEEMLAEVNATIIDIISALVTSTFIEKQPPQVLKTQ  
 TKFAATVRLLVGGKLVNVMNPPQVKATII SEQQA KSLKNENTRNECSGEILNCCVMEYHQATGTL SA  
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 IRS LADRLG DLSYLIYVFPDRPKDEVFSKY YTPVLAKAVDGYVKPQIKQV VPEFVNASADAGSSATYM  
 DQAPSPAVCPQAPYNYMPQNPDHVLDQDGEFDLDE TMDVARHVEELLRRPMSDLSRLSP PPAGLFT SAR  
 GSLS  
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 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA  
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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001288720

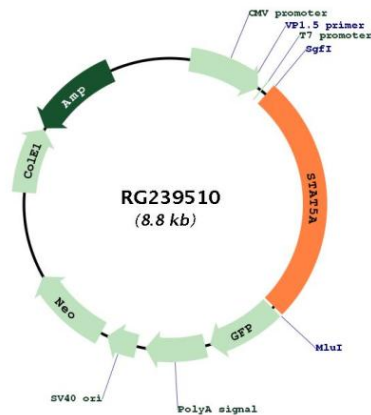
**ORF Size:** 2289 bp

**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.

<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001288720.1</a> , <a href="#">NP_001275649.1</a>
<b>RefSeq Size:</b>	4132 bp
<b>RefSeq ORF:</b>	2292 bp
<b>Locus ID:</b>	6776
<b>UniProt ID:</b>	<a href="#">P42229</a>
<b>Cytogenetics:</b>	17q21.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer
<b>MW:</b>	87.8 kDa
<b>Gene Summary:</b>	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 RG239510