

## Product datasheet for **RC206892**

### **STAT4 (NM\_003151) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	STAT4 (NM_003151) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STAT4
Synonyms:	SLEB11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC206892 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

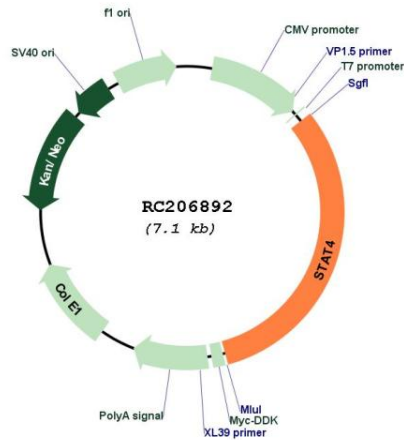
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 ATCTCAACAATCCGAAGTGATTCACAGAGCCACATTTCCATCAGACCTTCTCCCATGTCTCCAAGTG  
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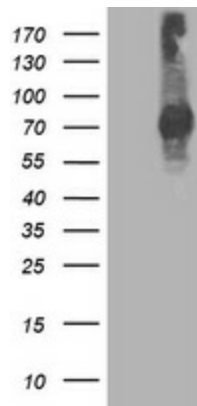


<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_003151.4</a>
<b>RefSeq Size:</b>	2840 bp
<b>RefSeq ORF:</b>	2247 bp
<b>Locus ID:</b>	6775
<b>UniProt ID:</b>	<a href="#">Q14765</a>
<b>Cytogenetics:</b>	2q32.2-q32.3
<b>Domains:</b>	SH2, STAT
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Jak-STAT signaling pathway
<b>MW:</b>	85.9 kDa
<b>Gene Summary:</b>	<p>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 essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Aug 2011]</p>

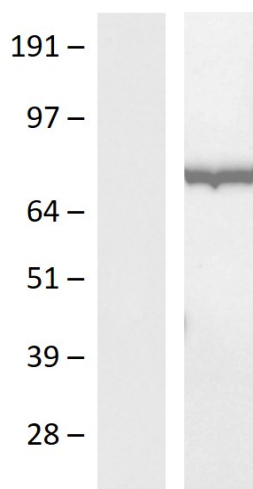
Product images:



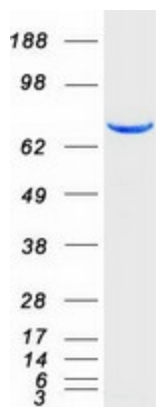
Circular map for RC206892



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY STAT4 (Cat# RC206892, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-STAT4 (Cat# [TA503041]). Positive lysates [LY401095] (100ug) and [LC401095] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401095]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206892 using transfection reagent PEI.



Coomassie blue staining of purified STAT4 protein (Cat# [TP306892]). The protein was produced from HEK293T cells transfected with STAT4 cDNA clone (Cat# RC206892) using MegaTran 2.0 (Cat# [TT210002]).