

## Product datasheet for **MR227035**

### Stat4 (NM\_011487) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stat4 (NM_011487) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stat4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR227035 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTCAGTGGAAATCAAGTCCAACAATTAGAATCAAGTTTTGGAGCAAGTAGATCAGTTCTATGATG  
ACAACTTTCCTATGGAAATCCGGCATCTGCTAGCTCAGTGGATTGAGACTCAAGACTGGGAAGTAGCTTC  
TAAACAATGAAACTATGGCAACAATTCTGCTTCAAACCTACTAATAACAATTGGATGAACAGTCGGGCGT  
GTTTCAAAGAAAAAATCTGCTATTGATTCACAATCTAAAGAGAATTAGAAAAGTTCTTCAGGGCAAGT  
TTCATGGAAATCCAATGCATGTAGCTGTGGTATTCAAATTGCTTAAGGGAAGAGAGGAGAATATTGGC  
TGCAGCCAACATGCCTATCCAGGGACCTCTGGAGAAATCCTTACAGAGTTCTTCAGTTTCTGAAAGACAA  
AGGAATGTGGAACACAAAGTGTCTGCCATTAACAAACAGTGTGCAGATGACAGAACAAGATACCAAACT  
TAGAAGACCTGCAAGATGAGTTTGACTACAGGTATAAAACAATTCAGACAATGGATCAGGGTGACAAAA  
CAGTATCTGGTGAACCGAAGTTTTGACGCTGCAAGAAATGCTTAATAGTCTGGACTTCAAGAGAAAG  
GAAGCACTCAGTAAGATGACGCAGATAGTGAACGAGACAGACCTGCTCATGAACAGCATGCTTCTAGAAG  
AGCTGCAGGACTGAAAAAGCGGCAGCAGATTGCCTGCATTGGTGGCCCGCTCCACAATGGGCTGGACCA  
GCTTCAGAACTGCTTTACCCTACTGGCAGAGAGCTTTTTCCAACCTCAGACAGCAACTGGAGAACTACAG  
GAGCAATCTACTAAAATGACCTATGAAGGGGATCCCATCCCTGCTCAAAGAGCACACCTCCTGAAAAGAG  
CTACCTTCTGATCTACAACCTTTCAAGAACTCATTTGTGGTGCAGGACAGCCATGCATGCCAACGCA  
CCCTCAGAGGCCGATGGTACTTAAACCCTCATTAGTTCAGTCACTGTAAAAGTGAAGTACTAATAAAATG  
CCGGAACATAACTATCAGGTGAAAGTAAAGCGCTCCATTGACAAGAATGTTTCAACTTGAAGCAATAGGA  
GATTTGTGCTTTGTGGAACCTCAGTCAAAGCTATGTCCAGTGAAGAACTTCCAATGGGAGCCTCAGT  
GGAGTTTAGACATTTGCAACCCAAGGAGATGAAGTGCAGTACTGGGAGTAAAGGAAACGAGGGCTGCCAC  
ATGGTGACAGAGGAGTTGCATCCATAACCTTTGAGACCCAGATCTGCCTCTATGGCCTCACCATTAACC  
TAGAGACCAGCTCATTACCTGTCGTGATGATTTCTAATGTGAGCCAACTACCCAATGCATGGGCATCCAT  
CATTTGGTACAATGTATCAACTAACGACTCCAGAACTGGTTTTCTTTAATAACCCTCCATCTGCACT  
TTGGGCCAACTCCTGGAAGTGTGAGCTGGCAATTTTCATCCTATGTCGGTGTGGCCTTAATTCAGAGC  
AGCTCAACATGCTGGCAGAGAAGCTCACAGTTCAGTCTAACTACAATGATGGTCACTCACCTGGGCCAA  
GTTCTGCAAGGAACATTTGCCTGGCAAAACATTTACCTTCTGGACTTGGCTTGAAGCAATATTGGACCTA  
ATTAATAAACATATTCTCCCTCTGGATTGATGGGTACATCATGGGATTTGTTAGTAAAGAGAAGGAAC  
GGCTTCTGCTCAAAGATAAAATGCCTGGGACATTTTTGTTAAGATTCAGTGAGAGCCATCTGGAGGGAT  
AACCTTCACTGGGTGGACCAATCTGAAAATGGAGAAGTGAAGTTCCACTCTGTAGAACCCTACAACAAA  
GGGAGACTGTGCGCTCTGCCGTTGCTGACATCCTGCGAGACTACAAGGTTATCATGGCTGAAAACCTTCC  
CTGAAAACCTCTGAAGTACCTTACCCTGACATTCCTCAAAGACAAGCCTTTGGCAAACACTACAGCTC  
CCAGCCGTGCGAAGTCTCAAGACCAACCGAAGGGGAGACAAGGGTTACGTCCCTCTGTTTTATCCCC  
ATTTCAACAATCCGAAGCGATTCACGGAGCCACAATCTCCTTACAGACCTTCTCCCATGTCTCCAAGTG  
CATATGCTGTGCTGAGAGAAAACCTGAGCCCAACGACAATTGAACTGCAATGAATCCCATATTCTGC  
TGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227035 protein sequence  
 Red=Cloning site Green=Tags(s)

MAQWNQVQQLEIKFLEQVDQFYDDNFPMEIRHLLAQWIETQDWEVASNNETMATILLQNLLIQLDEQSGR  
 VSKEKNLLLIIHNLKRIRKVLQGKFHGNPMHVAVVISNCLREERRILAAANMPIQGPLEKSLQSSSVSERQ  
 RNVEHKVSAIKNSVQMTEDQTKYLEDLQDEFDYRYKTIQTMQDGDKNSILVNQEVLTQEMLNSLDFKRR  
 EALSKMTQIVNETDLLMNSMLLEELQDWKKRQQIACIGGPLHNGLDQLQNCFTLLAESLFQLRQQLEKLQ  
 EQSTKMTYEGDPIPAQRAHLLERATFLIYNLFKNSFVVERQPCMPHPQRPMVLKTLIQFTVKLRLLIKL  
 PELNYQVKVKASIDKNVSTLSNRRFVLCGTHVKAMSSEESSNGSLSVEFRHLQPKEMKCSTGSKGNEGCH  
 MVTEELHSITFETQICLYGLTINLETSSLPVVMI SNVSQLPNAWASIIWYNVSTNDSQNLVFFNNPPSVT  
 LGQLLEVMSWQFSSYVGRGLNSEQLNMLAEKLTVQSNYNDGHLTWAKFCKEHLPGKTFFTWVLEAILDL  
 IKKHILPLWIDGYIMGFVSKERLLLKDKMPGTFLLRFSEHLGGITFTWVDQSENGEVRFHSEVPEYNK  
 GRLSALPFADILRDYKVI MAENFPENPLKYL YPDIPKDKAFGKHYSQPCEVSRP TERGDKGYVPSVFI P  
 ISTIRSDSTEPQSPDLLPMSPSAYAVLRENLSPTTIETAMNSPYSAE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011487

**ORF Size:** 2247 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:**

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\\_011487.1](#), [NM\\_011487.2](#), [NM\\_011487.3](#), [NM\\_011487.4](#), [NM\\_011487.5](#), [NP\\_035617.1](#)

**RefSeq Size:** 2981 bp

**RefSeq ORF:** 2247 bp

**Locus ID:** 20849

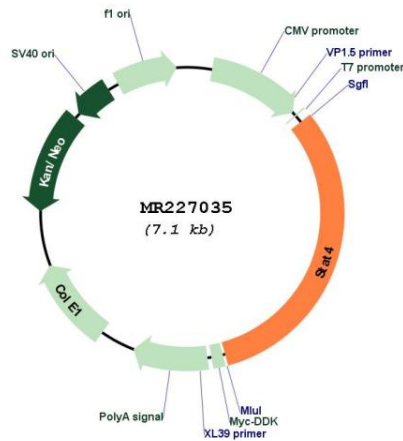
**UniProt ID:** [P42228](#)

**Cytogenetics:** 1 26.67 cM

**MW:** 85.8 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. Homozygous knockout mice for this gene exhibit reduced inflammation and cytokine production in response to immune challenge. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

### Product images:



Circular map for MR227035