

## Product datasheet for **MC221295**

### Stat4 (NM\_011487) Mouse Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                    |
| Product Name:      | Stat4 (NM_011487) Mouse Untagged Clone |
| Tag:               | Tag Free                               |
| Symbol:            | Stat4                                  |
| Vector:            | pCMV6-Entry (PS100001)                 |
| E. coli Selection: | Kanamycin (25 ug/mL)                   |
| Cell Selection:    | Neomycin                               |



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**Fully Sequenced ORF:** >MC221295 representing NM\_011487  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCAGTGGAAATCAAGTCCAACAATTAGAATCAAGTTTTGGAGCAAGTAGATCAGTTCTATGATG  
 ACAACTTTCTATGGAAATCCGGCATCTGCTAGCTCAGTGGATTGAGACTCAAGACTGGGAAGTAGCTTC  
 TAACAATGAAACTATGGCAACAATTCTGCTTCAAACTTACTAATACAATTGGATGAACAGTTGGGCGT  
 GTTCCAAAGAAAAAATCTGCTATTGATTCACAATCTAAAGAGAATTAGAAAAGTTCTTCAGGGCAAGT  
 TTCATGGAAATCCAATGCATGTAGCTGTGGTAATTTCAAATTGCTTAAGGGAAGAGAGGAGAATATTGGC  
 TGCAGCCAACATGCCTATCCAGGGACCTCTGGAGAAATCCTTACAGAGTTCTTCAGTTTCTGAAAGACAA  
 AGGAATGTGGAACACAAAGTGTCTGCCATTAACAAACAGTGTGCAGATGACAGAACAAGATACCAAATACT  
 TAGAAGACCTGCAAGATGAGTTTGACTACAGGTATAAAACAATTCAGACAATGGATCAGGGTGACAAAA  
 CAGTATCCTGGTGAACCGAAGTTTTGACGCTGCAAGAAATGCTTAATAGTCTGGACTTCAAGAGAAAG  
 GAAGCACTCAGTAAGATGACGCAGATAGTGAACGAGACAGACCTGCTCATGAACAGCATGCTTCTAGAAG  
 AGCTGCAGGACTGGAAAAAGCGGCAGCAGATTGCCTGCATTGGTGGCCCGCTCCACAATGGGCTGGACCA  
 GCTTCAGAACTGCTTTACCTACTGGCAGAGAGTCTTTCCAACCTCAGACAGCAACTGGAGAACTACAG  
 GAGCAATCTACTAAAATGACCTATGAAGGGGATCCCATCCCTGCTCAAAGAGCACACCTCCTGGAAGAG  
 CTACCTTCTGATCTACAACCTTTCAAGAACTCATTTGTGGTCGAGCGACAGCCATGCATGCCAACGCA  
 CCCTCAGAGGCCGATGGTACTTAAACCCTCATTAGTTCAGTCACTGTAAAAGTACTAATAAAAATTG  
 CCGGAATAAATACTCAGGTGAAAGTAAAGCGCTCCATTGACAAGAATGTTTCAACTTAAGCAATAGAA  
 GATTTGTGCTTTGTGGAACCTACGTCAAAGCTATGTCCAGTGGGAATCTTCCAATGGGAGCCTCAGT  
 GGAGTTTAGACATTTGCAACCCAAGGAGATGAAGTGCAGTACTGGGAGTAAAGGAAACGAGGGCTGCCAC  
 ATGGTGACAGAGGAGTTGCATCCATAACCTTTGAGACCCAGATCTGCCTCTATGGCCTACCATTAACC  
 TAGAGACCAGCTATTACCTGTCGTGATGATTTCTAATGTGAGCCAACTACCTAATGCATGGGCATCCAT  
 CATTTGGTACAATGTATCAACTAACGACTCCAGAACTGGTTTTCTTTAATAACCCTCCATCTGCACT  
 TTGGGCCAACTCCTGGAAGTGTGAGCTGGCAATTTTCATCCTATGTCGGTCTGGCCTTAATTCAGAGC  
 AGCTCAACATGCTGGCAGAGAAGCTCACAGTTCAGTCTAACTACAATGATGGTCACTCACCTGGGCCAA  
 GTTCTGCAAGGAACATTTGCCTGGCAAAACATTTACCTTCTGGACTTGGCTTGAAGCAATATTGGACCTA  
 ATTAAAAACATATTCTCCCTCTGGATTGATGGGTACATCATGGGATTTGTTAGTAAAGAGAAGGAAC  
 GGCTTCTGCTCAAAGATAAAATGCCTGGGACATTTTTGTTAAGATTCAGTGAGAGCCATCTTGGAGGGAT  
 AACCTTCACTGGGTGGACCAATCTGAAAATGGAGAAGTGAAGTCCACTCTGTAGAACCCTACAACAAA  
 GGGAGACTGTCCGCTCTGCCGTTGCTGACATCCTGCGAGACTACAAGGTTATCATGGCTGAAAACATCC  
 CTGAAAACCCTCTGAAGTACCTTACCCTGACATTTCCAAAGACAAGCCTTTGGCAAACACTACAGCTC  
 CCAGCCGTGCGAAGTCTCAAGACCAACCGAAGGGGAGACAAGGGTTACGTCCCCCTGTGTTTTATCCCC  
 ATTTCAACAATCCGAAGCGATTCACGGAGCCACAATCTCCTTCAGACCTTCTCCCCATGTCTCCAAGTG  
 CATATGCTGTGCTGAGAGAAAACCTGAGCCCAACGACAATTGAACTGCAATGAATCCCCATATTCTGC  
 TGAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_011487

**Insert Size:** 2247 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

|                               |  |
|-------------------------------|--|
| <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>RefSeq:</b>                | <u><a href="#">NM_011487.5</a></u> , <u><a href="#">NP_035617.1</a></u>  |
| <b>RefSeq Size:</b>           | 3000 bp  |
| <b>RefSeq ORF:</b>            | 2247 bp  |
| <b>Locus ID:</b>              | 20849  |
| <b>UniProt ID:</b>            | <u><a href="#">P42228</a></u>  |
| <b>Cytogenetics:</b>          | 1 26.67 cM   |
| <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. 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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p> |