

## Product datasheet for **MC221089**

### Stat3 (NM\_011486) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stat3 (NM_011486) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stat3
Synonyms:	1110034C02Rik; A; Aprf; AW109958
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221089 representing NM\_011486  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTCAGTGAACAGCTGCAGCAGCTGGACACACGCTACCTGGAGCAGCTGCACCAGCTGTACAGCG  
 ACAGCTTCCCATGGAGCTGCGGCAGTTCTGGCACCTTGGATTGAGAGTCAAGACTGGGCATATGCAGC  
 CAGCAAAGAGTCACATGCCACGTTGGTGTTCATAATCTCTTGGGTGAAATTGACCAGCAATATAGCCGA  
 TTCCTGCAAGAGTCCAATGTCCTCTATCAGCACAACTTCGAAGAATCAAGCAGTTTCTGCAGAGCAGGT  
 ATCTTGAGAAGCCAATGGAAATTGCCCGGATCGTGGCCGATGCCTGTGGGAAGAGTCTCGCCTCTCCA  
 GACGGCAGCCACGGCAGCCAGCAAGGGGGCCAGGCCAACCCCAACAGCCGCCGTAGTGACAGAGAAG  
 CAGCAGATGTTGGAGCAGCATCTTCAGGATGTCCGGAAGCGAGTGCAGGATCTAGAACAGAAAATGAAGG  
 TGGTGGAGAACCCTCAGGACGACTTTGATTTCACTACAAAACCTCAAGAGCCAAGGAGACATGCAGGA  
 TCTGAATGAAAACAACCACTCTGTGACCAGACAGAAGATGCAGCAGCTGGAACAGATGCTCACAGCCCTG  
 GACCAGATGCGGAGAAGCATTGTGAGTGAAGTGGCGGGGCTCTTGTGAGCAATGGAGTACGTGCAGAAGA  
 CACTGACTGATGAAGAGCTGGCTGACTGGAAGAGGCGGCAGCAGATCGCGTGCATCGGAGGCCCTCCCAA  
 CATCTGCCTGGACCGTCTGGAAGTGGATAAATTATTAGCAGAATCTCAACTTCAGACCCGCCAACAA  
 ATTAAGAAACTGGAGGAGCTGCAGCAGAAAGTGTCTACAAGGGCGACCCATCGTGCAGCACCGGCCCA  
 TGCTGGAGGAGAGGATCGTGGAGCTGTTAGAACTTAATGAAGAGTGCCTTCGTGGTGGAGCGGCAGCC  
 CTGCATGCCCATGCACCCGACCGGCCCTTAGTCATCAAGACTGGTGTCCAGTTTACCACGAAAGTCAGG  
 TTGCTGGTCAAATTTCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGATAAAGACTCTGGGG  
 ATGTTGCTGCCCTCAGAGGGTCTCGGAAATTTAACATTCTGGGCACGAACACAAAAGTGAACATGGA  
 GGAGTCTAACAACGGCAGCCTGTCTGCAGAGTTCAAGCACCTGACCCCTTAGGGAGCAGAGATGTGGGAAT  
 GGAGGCCGTGCCAATTGTGATGCCTCCTTGATCGTACTGAGGAGCTGCACCTGATCACCTTCGAGACTG  
 AGGTGTACCACCAAGGCCTCAAGATTGACCTAGAGACCCACTCCTTGCCAGTTGTGGTGTCTCCAACAT  
 CTGTCAGATGCCAAATGCTTGGGCATCAATCCTGTGGTATAACATGCTGACCAATAACCCCAAGAACGTG  
 AACTTCTTCACTAAGCCGCAATTGGAACCTGGGACCAAGTGGCCGAGGTGCTCAGCTGGCAGTTCTCGT  
 CCACCACCAAGCGGGGGCTGAGCATCGAGCAGCTGACAACGCTGGCTGAGAAGCTCTAGGGCCTGGTGT  
 GAACTACTCAGGGTGTGAGATCACATGGGCTAAATTCGCAAAGAAAACATGGCTGGCAAGGGCTTCTCC  
 TTCTGGGTCTGGCTAGACAATATCATCGACCTTGTGAAAAGTATATCTTGGCCCTTTGGAATGAAGGGT  
 ACATCATGGGTTTCATCAGCAAGGAGCGGGAGCGGCCATCCTAAGCACAAAGCCCCGGGCACCTTCTCT  
 ACTGCGCTTCAGCGAGAGCAGCAAAGAAGGAGGGGTCACTTTCCTTGGGTGGAAAAGGACATCAGTGGC  
 AAGACCCAGATCCAGTCTGTAGAGCCATACACCAAGCAGCAGCTGAACAACATGTCAATTTGCTGAAATCA  
 TCATGGGCTATAAGATCATGGATGCGACCAACATCCTGGTGTCTCCACTTGTCTACCTCTACCCCGACAT  
 TCCCAAGGAGGAGGCATTTGAAAGTACTGTAGGCCCGAGAGCCAGGAGCACCCCGAAGCCGACCCAGGT  
 AGTGCTGCCCGTACCTGAAGACCAAGTTCATCTGTGTGACACCATTATTGATGCAGTTTGAAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_011486  
**Insert Size:** 2169 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>BC019168</u> , <u>AAH19168</u>
<b>RefSeq Size:</b>	2953 bp
<b>RefSeq ORF:</b>	2169 bp
<b>Locus ID:</b>	20848
<b>Cytogenetics:</b>	11 63.82 cM
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the STAT protein family. 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 through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (3), also called Stat3B or Stat3beta, uses an alternate splice site in the 3' coding region, resulting in an early stop codon, compared to variant 1. The encoded isoform (3) has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>