

Product datasheet for **MC221434**

Stat3 (NM_213660) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stat3 (NM_213660) 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: >MC221434 representing NM_213660
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCAGTGGAAACAGCTGCAGCAGCTGGACACACGCTACCTGGAGCAGCTGCACCAGCTGTACAGCG
 ACAGCTTCCCATGGAGCTGCGGCAGTTCTGGCACCTTGGATTGAGAGTCAAGACTGGGCATATGCAGC
 CAGCAAAGAGTCACATGCCACGTTGGTGTTCATAATCTCTGGGTGAAATTGACCAGCAATATAGCCGA
 TTCCTGCAAGAGTCCAATGTCCTCTATCAGCACAACTTCGAAGAATCAAGCAGTTTCTGCAGAGCAGGT
 ATCTTGAGAAGCCAATGGAAATTGCCCGGATCGTGGCCGATGCCTGTGGGAAGAGTCTCGCCTCTCCA
 GACGGCAGCCACGGCAGCCAGCAAGGGGGCCAGGCCAACCCCAACAGCCGCCGTAGTGACAGAGAAG
 CAGCAGATGTTGGAGCAGCATCTCAGGATGTCCGGAAGCGAGTGCAGGATCTAGAACAGAAAATGAAGG
 TGGTGGAGAACCCTCAGGACGACTTTGATTTCAACTACAAAACCTCAAGAGCCAAGGAGACATGCAGGA
 TCTGAATGGAACAACCACTCTGTGACCAGACAGAAGATGCAGCAGCTGGAACAGATGCTCACAGCCCTG
 GACCAGATGCGGAGAAGCATTGTGAGTGTGCTGGCGGGGCTCTTGTGAGCAATGGAGTACGTGCAGAAGA
 CACTGACTGATGAAGAGCTGGCTGACTGGAAGAGGCGGCAGCAGATCGCGTGCATCGGAGGCCCTCCCAA
 CATCTGCCTGGACCGTCTGGAAAACCTGGATAAATTATTAGCAGAATCTCAACTTCAGACCCGCCAACAA
 ATTAAGAAAACCTGGAGGAGCTGCAGCAGAAAAGTGTCTACAAGGGCGACCCATCGTGCAGCACCGGCCCA
 TGCTGGAGGAGAGGATCGTGGAGCTGTTAGAAAATTAATGAAGAGTGCCTTCGTTGGTGGAGCGGCAGCC
 CTGCATGCCCATGCACCCGACCGGCCCTTAGTCATCAAGACTGGTGTCCAGTTTACCACGAAAGTCAGG
 TTGCTGGTCAAATTTCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGATAAAGACTCTGGGG
 ATGTTGCTGCCCTCAGAGGGTCTCGGAAATTTAACATTCTGGGCACGAACACAAAAGTGAATGAACATGGA
 GGAGTCTAACAACGGCAGCCTGTCTGCAGAGTTCAAGCACCTGACCCCTTAGGGAGCAGAGATGTGGGAAT
 GGAGGCCGTGCCAATTGTGATGCCTCCTTGATCGTACTGAGGAGCTGCACCTGATCACCTTCGAGACTG
 AGGTGTACCACCAAGGCCTCAAGATTGACCTAGAGACCCACTCCTTGCCAGTTGTGGTGTCTCCAACAT
 CTGTCAGATGCCAAATGCTTGGGCATCAATCCTGTGGTATAACATGCTGACCAATAACCCCAAGAACGTG
 AACTTCTTCACTAAGCCGCAATTGGAACCTGGGACCAAGTGGCCGAGGTGCTCAGCTGGCAGTTCTCGT
 CCACCACCAAGCGGGGGCTGAGCATCGAGCAGCTGACAACGCTGGCTGAGAAGCTCCTAGGGCCTGGTGT
 GAACTACTCAGGGTGTGAGATCACATGGGCTAAATTCGCAAAGAAAACATGGCTGGCAAGGGCTTCTCC
 TTCTGGGTCTGGCTAGACAATATCATCGACCTTGTGAAAAGTATATCTTGGCCCTTTGGAATGAAGGGT
 ACATCATGGGTTTCATCAGCAAGGAGCGGGAGCGGCCATCCTAAGCACAAAGCCCCGGGCACCTTCTCT
 ACTGCGCTTCAGCGAGAGCAGCAAGAAGGAGGGGTCACTTTCCTTGGGTGGAAAAGGACATCAGTGGC
 AAGACCCAGATCCAGTCTGTAGAGCCATACACCAAGCAGCAGCTGAACAACATGTCATTTGCTGAAATCA
 TCATGGGTATAAGATCATGGATGCGACCAACATCCTGGTGTCTCCACTTGTCTACCTCTACCCCGACAT
 TCCAAGGAGGAGGCATTTGAAAAGTACTGTAGGCCGAGAGCCAGGAGCACCCGAAGCCGACCCAGGT
 GCTGCCCGTACCTGAAGACCAAGTTCATCTGTGTGACACCAACGACCTGCAGCAATACCATGACCTGC
 CGATGTCCCCCGCACTTAGATTATTGATGCAGTTTGGAAATAACGGTGAAGGTGCTGAGCCCTCAGC
 AGGAGGGCAGTTTGAGTCGCTCACGTTTGACATGGATCTGACCTCGGAGTGTGCTACCTCCCCATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_213660
Insert Size: 2310 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).
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:	<ol style="list-style-type: none">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_213660.3 , NP_998825.1
RefSeq Size:	4517 bp
RefSeq ORF:	2310 bp
Locus ID:	20848
UniProt ID:	P42227
Cytogenetics:	11 63.82 cM
Gene Summary:	<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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter than 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>