

Product datasheet for **MC221613**

Stat5a (NM_011488) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stat5a (NM_011488) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stat5a
Synonyms:	AA959963; STAT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221613 representing NM_011488
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGGCTGGATT**CAGGCC**CAGCAGCTT**CAGGG**GAGATGCCCTGCGCCAGATGCAAGTGTGTATGGC
AGCATTTCCCATCGAGGTCGGCACTACCTGGCCAGTGGATCGAGAGCCAGCCGTGGGATGCTATTGA
CTTGATAATCCCCAGGACCGAGGTCAGGCCACCAACTCCTGGAGGGCCTGGTGCAAGGAGCTGCAGAAG
AAGGCGGAGCACCAGGTGGGGGAAGATGGGTTTTTCTGAAGATCAAGCTGGGGCACTATGCCACACAGC
TCCAGAACACGTATGACCGCTGTCCATGGAGCTGGTTCGCTGTATCCGTACATTCTGTACAACGAACA
GAGGCTGGTTCGGAAGCCAACAATTGCAGCTCCCTGCTGGTGTCTGGTTGACCCATGTCCAGAAG
CACCTTCAGATCAACAAAGTTTGAGGAGCTGCGCTGATCACACAGGACACGGAGAACGAGCTGAAGA
AGCTGCAGCAGACCAAGAGTACTTCATCATCCAGTACCAGGAGAGCCTCGGGATCCAAGCTCAGTTTGC
CCAGCTGGGCCAGCTGAACCCCAAGGAGCGCATGAGCAGGAGACGGCCCTCCAGCAGAAGCAAGTGTCC
CTGGAGACCTGGCTGCAGCGAGAGGCACAGACACTGCAGCAGTACCGAGTGGAGCTGGCTGAGAAGCACC
AGAAGACCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCTGGACGACGAGCTGATCCAGTGGAAAGCG
GAGACAGCAGCTGGCCGGGAACGGGGTCCCCCGAGGGCAGCCTGGACGTGCTGCAGTCCCTGGTGTGAG
AAGCTGGCCGAGATCATCTGGCAGAACCGGCAGCAGATCCGCAGGGCTGAGCACCTGTGCCAGCAGCTGC
CCATCCAGGCCCGTGGAGGAGATGCTGGCTGAGGTCAACGCCACCATCACGGACATCATCTCAGCTCT
GGTACCAGCAGCTTCATCATCGAGAAGCAGCCTCCTCAGGTCTGAAGACCCAGACCAAGTTTGGCGCC
ACCGTGGCCCTGCTGGTGGGGGAAAGCTGAATGTGCACATGAACCCCGCAGGTGAAGCGCAGCATCA
TCAGCGAGCAGCGCCAAGTCCCTGCTCAAGAATGAGAACACCCGCAATGAGTGCAGCGCGGAGATCCT
GAACAACCTGTTGGTTCATGGAGTACCACAGGCCACTGGCAGCTCAGCGCCACTTCAGAAACATGTCA
CTGAAAAGAATCAAGCGCGCCGACAGGCGTGGTGCAGAGTCCGGTACGGAGGAGAAGTTCACAGTCTGT
TTGAGTCTCAGTTCAGCGTTGGCAGCAACGAGCTGGTGTCCAGGTGAAGACCCTGTCCCTCCCTGTGGT
CGTTATCGTCCATGGCAGCCAGGACCACAATGCTACTGCCACCCTGCTGTGGGACAATGCCTTTGCTGAG
CCGGGCAGGGTGCCATTTGCTGTGCCTGACAAGGTGCTGTGGCCGACGCTGTGTGAAGCGCTCAACATGA
AATTCAAGGCTGAAGTACAGAGCAACCGGGCTTGACCAAGAGAACCTCGTGTCTCCGACAGAAACT
GTTCAACATCAGCAGCAACCACCTCGAGGACTACAACAGCATGTCTGTCTGGTCCCAGTTCAACCGG
GAGAACTTGCCCGCTGGAACCTACACCTTCTGGCAGTGGTTCGACGGGGTATGGAGGTGCTGAAGAAGC
ACCATAAGCCCCATTGGAATGATGGGGCTATCCTGGGTTTCGTGAACAAGCAACAGGCCACGACCTGCT
CATCAACAAGCCGGACGGGACCTTCTGCTGCGCTTCAGTGAAGTTCGGGAAATCGGGGGCATACCATTGCT
TGGAAGTTGACTCTCCGGACCGAAACCTCTGGAATCTGAAGCCATTACAGCAGCGAGATTTCTCCATTC
GGTCCCTGGCCGACCGGCTGGGGACCTGAACTACCTTATCTACGTGTTCCAGACCGACCCAAGGACGA
GGTCTTTGCCAAGTATTACACTCTGTACTTGGAAAGCAGTTGACGGATACGTGAAGCCACAGATCAAG
CAAGTGGTCCCTGAGTTCGTCAATGCATCCACAGATGCCGGAGCCAGCGCCACCTACATGGACCAGGCTC
CTTCCCAAGTTCGTGTCCCTCAACCTCACTACAACATGTACCCACCAACCCTGACCCTGTCTTGACCA
AGATGGCGAGTTTGACCTGGATGAGAGCATGGATGTTGCCAGGCACGTGGAAGAAGCTTTTACGCCGGCC
ATGGACAGTCTCGACGCCCGCTCTCCACCTGCTGGTCTCTTACCTCCGCTAGAAGTCCCTGTCTCT
GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2511_f01.zip

Restriction Sites: SgfI-MluI

ACCN: NM_011488

Insert Size: 2382 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_011488.3](#), [NP_035618.1](#)

RefSeq Size: 3910 bp

RefSeq ORF: 2382 bp

Locus ID: 20850

UniProt ID: [P42230](#)

Cytogenetics: 11 63.77 cM

Gene Summary: Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript but encodes the shorter isoform (1).