

Product datasheet for **MR210689**

Stat5a (NM_011488) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR210689 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCTGGATT**CAGGCC**CAGCAGCTT**CAGGG**GAGATGCCCTGCGCCAGATGCAAGTGTGTATGGC
 AGCATTTCCCATCGAGGTCCGGCACTACCTGGCCAGTGGATCGAGAGCCAGCCGTGGGATGCTATTGA
 CTTGGATAATCCCCAGGACCGAGGT**CAGGCC**ACCAACTCCTGGAGGGCCTGGTGCAAGGAGCTGCAGAAG
 AAGGCGGAGCACCAGGTGGGGGAAGATGGGTTTTTCTGAAGATCAAGCTGGGGCACTATGCCACACAGC
 TCCAGAACACGTATGACCGCTGTCCATGGAGCTGGTTCGCTGTATCCGTACATTCTGTACAACGAACA
 GAGGCTGGTTCGCGAAGCCAACAATTGCAGCTCCCTGCTGGTGTCTGGTTGACCCATGTCCAGAAG
 CACCTTCAGATCAACAAAGTTTTGAGGAGCTGCGCTGATCACACAGGACACGGAGAACGAGCTGAAGA
 AGCTGCAGCAGACCAAGAGTACTTCATCATCCAGTACCAGGAGAGCCTCGGGATCCAAGCTCAGTTTGC
 CCAGCTGGGCCAGCTGAACCCCAAGGAGCGCATGAGCAGGAGACGGCCCTCCAGCAGAAGCAAGTGTCC
 CTGGAGACCTGGCTGCAGCGAGAGGCACAGACACTGCAGCAGTACCGAGTGGAGCTGGCTGAGAAGCACC
 AGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCTGGACGACGAGCTGATCCAGTGGAAAGCG
 GAGACAGCAGCTGGCCGGGAACGGGGTCCCCCGAGGGCAGCCTGGACGTGCTGCACTCCTGGTGTGAG
 AAGCTGGCCGAGATCATCTGGCAGAACCGGCAGCAGATCCGCAGGGCTGAGCACCTGTGCCAGCAGCTGC
 CCATCCCAGGCCCGTGGAGGAGATGCTGGCTGAGGTCAACGCCACCATCACGGACATCATCTCAGCTCT
 GGTACCAGCACGTTTCATCATCGAGAAGCAGCCTCCTCAGGTCTGAAGACCCAGACCAAGTTTGGCGCC
 ACCGTGCGCCTGCTGGTGGGGGAAAGCTGAATGTGCACATGAACCCCGCAGGTGAAGCGCAGCATCA
 TCAGCGAGCAGCAGGCCAAGTCCCTGCTCAAGAATGAGAACACCCGCAATGAGTGCAGCGCGGAGATCCT
 GAACAACCTGTTGGTTCATGGAGTACCACAGGCCACTGGCAGCTCAGCGCCACTTCAGAAACATGTCA
 CTGAAAAGAATCAAGCGCGCCGACAGGCGTGGTGCAGAGTCGGTGACGGAGGAGAAGTTCACAGTCTGT
 TTGAGTCTCAGTTCAGCGTTGGCAGCAACGAGCTGGTGTCCAGGTGAAGACCCTGTCCCTCCCTGTGGT
 CGTTATCGTCCATGGCAGCCAGGACCACAATGCTACTGCCACCCTGCTGTGGGACAATGCCTTTGCTGAG
 CCGGGCAGGGTGCCATTTGCTGTGCCTGACAAGGTGCTGTGGCCGACGCTGTGTGAAGCGCTCAACATGA
 AATTCAAGGCTGAAGTACAGAGCAACCGGGCTTGACCAAGAGAACCTCGTGTCTCCTGGCAGAAAAT
 GTTCAACATCAGCAGCAACCACCTCGAGGACTACAACAGCATGTCTGTCTCCTGGTCCCAGTTCAACCGG
 GAGAACTTGCCCGCTGGAACCTACACTTCTGGCAGTGGTTCGACGGGGTATGGAGGTGCTGAAGAAGC
 ACCATAAGCCCCATTGGAATGATGGGGCTATCCTGGGTTTCGTGAACAAGCAACAGGCCACGACCTGCT
 CATCAACAAGCCGGACGGGACCTTCTGCTGCGCTTCAGTGACTCGGAAATCGGGGGCATACCATTGCT
 TGGAAGTTTACTCTCCGGACCGAAACCTCTGGAATCTGAAGCCATTACAGCAGCGAGATTTCTCCATTC
 GGTCCCTGGCCGACCGCTGGGGACCTGAACTACCTTACTACGTGTTCCAGACCGACCCAAGGACGA
 GGTCTTTGCCAAGTATTACACTCCTGTACTTGGAAAGCAGTTGACGGATACGTGAAGCCACAGATCAAG
 CAAGTGGTCCCTGAGTTCGTCAATGCATCCACAGATGCCGGAGCCAGCGCCACCTACATGGACCAGGCTC
 CTTCCCAGTCTGTGCCCTCAACCTCACTACAACATGTACCCACCAACCCTGACCCTGTCTTGGACCA
 AGATGGCGAGTTTACCTGGATGAGAGCATGGATGTTGCCAGGCACGTGGAAGAAGCTTTTACGCCGGCC
 ATGGACAGTCTCGACGCCCGCTCTCCACCTGCTGGTCTTTCACCTCCGCTAGAAGTCCCTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAA**ACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>MR210689 protein sequence
Red=Cloning site Green=Tags(s)

MAGWIIQAQQLQGDALRQMQLVYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRGQATQLLEGLVQELQK
KAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNCSSPAGLVDAMSQK
HLQINQRFEELRLITQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLGQLNPQERMSRETALQQKQVS
LETWLRQEAQTLQQYRVELAEKHQKTLQLLRKQQTIIIDDELIQWKRRQQLAGNGGPPPEGLDVLQSWCE
KLAEEIIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIIISALVTSTFIIIEKQPPQVLKTQTKFAA
TVRLLVGGKLVNVMNPPQVKATIIISQQAKSLLKNENTRNECSGEILNNCCVMEYHQATGTLSAHFRNMS
LKRIKRADRRGAESVTEEFVLFESQFSVGSNELVFQVKTLVSLPVVIVHGSQDHNATATVLDNFAE
PGRVPFAVPDKVLPQCEALNMKFAEVQSNRGLTKENLVFLAQKLFNISSNHLEDYNSMSVSWSQFNR
ENLPGWNYTFWQWFDGVMVLLKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIA
WKFSDPDRNLWNLKPFTRDFSIIRSLADRLGDLNLIYVFPDRPKDEVFAKYYTPVLAKAVDGYVKPQIK
QVVPEFVNASTDAGASATYMDQAPSPVVCQPHYNYPPNPDVLDQDGEFDLDESMDVARHVEELLRRP
MDSLDRALSPPAGLFTSARSSLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011488

ORF Size: 2382 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_011488.3](#), [NP_035618.1](#)

RefSeq Size: 3910 bp

RefSeq ORF: 2382 bp

Locus ID: 20850

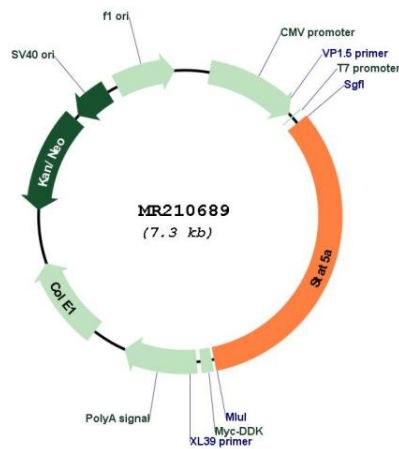
UniProt ID: [P42230](#)

Cytogenetics: 11 63.77 cM

MW: 90.8 kDa

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]

Product images:



Circular map for MR210689