

## Product datasheet for **MR227488**

### Stat5a (NM\_001164062) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stat5a (NM_001164062) 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:**

>MR227488 representing NM\_001164062  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGCTGGATT**CAGGCC**CAGCAGCTT**CAGGG**GAGATGCCCTGCGCCAGATGCAAGTGTGTATGGC  
 AGCATTTCCCATCGAGGTCCGGCACTACCTGGCCAGTGGATCGAGAGCCAGCCGTGGGATGCTATTGA  
 CTTGGATAATCCCCAGGACCGAGGT**CAGGCC**ACCCA**ACTCCTGGAGGGCCTGGT**GCAAGGAGCTGCAGAAG  
 AAGGCGGAGCACCAGGTGGGGGAAGATGGGTTTTT**GCTGAAGATCAAGCTGGGG**CACTATGCCACACAGC  
 TCCAGAACACGTATGACCGCTGTCCCATGGAGCTGGTTCGCTGTATCCGT**CACATTCTGTACAACGAACA**  
 GAGGCTGGTTCGCGAAGCCAACAATTGCAGCTCCCTGCTGGTGTCTGGTTGACCCATGTCCAGAAG  
 CACCTTCAGATCAACAAAGTTTTGAGGAGCTGCGCTGATCACACAGGACACGGAGAACGAGCTGAAGA  
 AGCTGCAGCAGACCAAGAGTACTTCATCATCCAGTACCAGGAGAGCCTGCGGATCCAAGCTCAGTTTGC  
 CCAGCTGGGCCAGCTGAACCCCAAGGAGCGCATGAGCAGGAGACGGCCCTCCAGCAGAAGCAAGTGTCC  
 CTGAGAGACCTGGCTGCAGCGAGAGGCACAGACACTGCAGCAGTACCGAGTGGAGCTGGCTGAGAAGCACC  
 AGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCTGGACGACGAGCTGATCCAGTGGAAAGCG  
 GAGACAGCAGCTGGCCGGGAACGGGGTCCCCCGAGGGCAGCCTGGACGTGCTGCACTCCTGGTGTGAG  
 AAGCTGGCCGAGATCATCTGGCAGAACCAGCAGCAGATCCGCAGGGCTGAGCACCTGTGCCAGCAGCTGC  
 CCATCCCAGGCCCGTGGAGGAGATGCTGGCTGAGGTCAACGCCACCATCACGGACATCATCTCAGCTCT  
 GGTACCAGCAGCTTCATCATCGAGAAGCAGCCTCCTCAGGTCTGAAGACCCAGACCAAGTTTGGCGCC  
 ACCGTGCGCCTGCTGGTGGGGGAAAGCTGAATGTGCACATGAACCCCGCAGGTGAAGCGCAGCATCA  
 TCAGCAGCAGCAGGCCAAGTCCCTGCTCAAGAAATGAGAACACCCGCAATGAGTGCAGCGCGGAGATCCT  
 GAACAACCTGTTGGTTCATGGAGTACCACAGGCCACTGGCAGCTCAGCGCCACTTCAGAAACATGTCA  
 CTGAAAAGAATCAAGCGCGCCGACAGGCGTGGTGCAGAGTCGGTGACGGAGGAGAAGTTCACAGTCTGT  
 TTGAGTCTCAGTTCAGCGTTGGCAGCAACGAGCTGGTGTCCAGGTGAAGACCCTGTCCCTCCCTGTGGT  
 CGTTATCGTCCATGGCAGCCAGGACCACAATGCTACTGCCACCGTGTGTGGGACAATGCCTTTGCTGAG  
 CCGGGCAGGGTGCCATTTGCTGTGCCTGACAAGGTGCTGTGGCCGACGTGTGTGAAGCGCTCAACATGA  
 AATTCAAGGCTGAAGTACAGAGCAACCGGGCTTGACCAAGAGAACCTCGTGTCTCCTGGCAGAAAACCT  
 GTTCAACATCAGCAGCAACCACCTCGAGGACTACAACAGCATGTCTGTCTCCTGGTCCCAGTTCAACCGG  
 GAGAACTTGCCCGCTGGA**ACTACACCTTCTGGCAGTGGTTCGACGGGGT**GATGGAGGTGCTGAAGAAGC  
 ACCATAAGCCCCATTGGAATGATGGGGCTATCCTGGGTTTCGTGAACAAGCAACAGGCCACGACCTGCT  
 CATCAACAAGCCGGACGGGACCTTCTGCTGCGCTT**CAGT**GACTCGGAAATCGGGGGCATACCATTGCT  
 TGGAAGTTGACTCTCCGGACCGAAACCTCTGGAATCTGAAGCCATT**CACGACGCGAGATTTCTCCATTC**  
 GGTCCCTGGCCGACCGGCTGGGGACCTGAACTACCTTACTACGTGTTCCAGACCGACCCAAGGACGA  
 GGTCTTTGCCAAGTATTACACTCCTGTACTTGGTTCGTCATCCACAGATGCCGGAGCCAGCGCCA  
 CCTACATGGACCAGGCTCCTTCCCAGTCTGTGCCCTCAACCTCACTACAACATGTACCCACCAACCC  
 TGACCTGTCTTGACCAAGATGGCGAGTTT**GACCTGGATGAGAGCATGGATGTTGCCAGGCAGTGGAA**  
 GAACTTTTACGCCGGCCATGGACAGTCTCGACGCCCGCCTCTCCCACCTGCTGGTCTCTTACCTCCG  
 CTAGAAGCTCCCTGTCTGAACGCTGGACTCCATGCTTCTCTTGGAAAACCACCTT**CAGTGTGAGGACCC**  
 CACGTCAGTTG

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227488 representing NM\_001164062  
 Red=Cloning site Green=Tags(s)

MAGWIIQAQQLQGDALRQMQLVYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRGQATQLLEGLVQELQK  
 KAEHQVGEDGFLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNCSSPAGLVDAMSQK  
 HLQINQRFEELRLITQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLGQLNPQERMSRETALQQKQVS  
 LETWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIIIDDELIQWKRRQQLAGNGGPPPEGLDVLQSWCE  
 KLAEEIIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIIISALVTSTFIIIEKQPPQVLKTQTKFAA  
 TVRLLVGGKLVNVMNPPQVKATIISEQQAKSLLKNENTRNECSGEILNCCVMEYHQATGTLSAHFRNMS  
 LKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLVSLPVVIVHGSQDHNATATVLDNFAE  
 PGRVPPFAVPDKVLPQLCEALNMKFAEVQSNRGLTKENLVFLAQKLFNISSNHLEDYNSMSVSWSQFNR  
 ENLPGWNYTFWQWFDGMEVLKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIA  
 WKFDSPDRNLWNLKPFTRDFSIIRSLADRLGDLNYLIYVFPDRPKDEVFAKYYTPVLGSSMHPQMPEPAP  
 PTWTRLLPQSCALNLTCTHTPLTSLTKMASLTWMRAWMLPGTWKNFYAGPWTVSTPASPHELLVSSPP  
 LEAPCPCRWTPCFSWKTTFSVRSRQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001164062

**ORF Size:** 2391 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\\_001164062.1](#), [NP\\_001157534.1](#)

**RefSeq Size:** 3628 bp

**RefSeq ORF:** 2394 bp

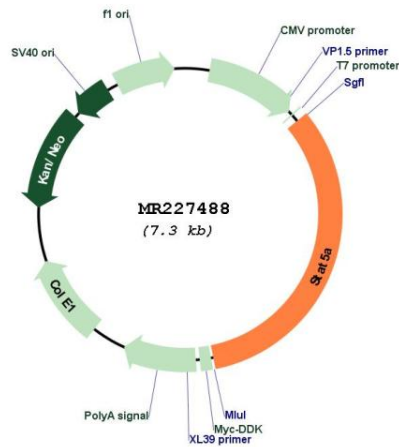
**Locus ID:** 20850

**Cytogenetics:** 11 63.77 cM

**MW:** 92.1 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 MR227488