

## Product datasheet for **MG227488**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stat5a (NM_001164062) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stat5a
Synonyms:	AA959963; STAT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227488 representing NM\_001164062  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGCTGGATT**CAGGCC**CAGCAGCTT**CAGGGAGATGCCCTGCGCCAGATGCAAGTGTGTATGGC**  
 AGCATTTCCCATCGAGGTCCGGCACTACCTGGCCAGTGGATCGAGAGCCAGCCGTGGGATGCTATTGA  
 CTTGGATAATCCCCAGGACCGAGGT**CAGGCC**ACCCA**ACTCCTGGAGGGCCTGGTGCAGGAGCTGCAGAAG**  
 AAGGCGGAGCACCAGGTGGGGGAAGATGGGTTTTT**GCTGAAGATCAAGCTGGGGCACTATGCCACACAGC**  
 TCCAGAACACGTATGACCGCTGTCCATGGAGCTGGTTCGCTGTATCCGT**CACATTCTGTACAACGAACA**  
 GAGGCTGGTTCGCGAAGCCAACAATTGCAGCTCCCTGCTGGTGTCTGGTTGACCCATGTCCAGAAG  
 CACCTTCAGATCAACAAAGTTTTGAGGAGCTGCGCTGATCACACAGGACACGGAGAACGAGCTGAAGA  
 AGCTGCAGCAGACCAAGAGTACTTCATCATCCAGTACCAGGAGAGCCTGCGGATCCAAGCTCAGTTTGC  
 CCAGCTGGGCCAGCTGAACCCCAAGGAGCGCATGAGCAGGAGACGGCCCTCCAGCAGAAGCAAGTGTCC  
 CTGAGACCTGGCTGCAGCGAGAGGCACAGACACTGCAGCAGTACCGAGTGGAGCTGGCTGAGAAGCACC  
 AGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCTGGACGACGAGCTGATCCAGTGGAGCG  
 GAGACAGCAGCTGGCCGGGAACGGGGTCCCCCGAGGGCAGCCTGGACGTGCTGCAGTCCCTGGTGTGAG  
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 CCATCCCAGGCCCGTGGAGGAGATGCTGGCTGAGGTCAACGCCACCATCACGGACATCATCTCAGCTCT  
 GGTACCAGCAGTTCATCATCGAGAAGCAGCCTCCTCAGGTCTGAAGACCCAGACCAAGTTTGGCGCC  
 ACCGTGCGCCTGCTGGTGGGGGAAAGCTGAATGTGCACATGAACCCCGCAGGTGAAGCGCACCATCA  
 TCAGCAGCAGCAGGCCAAGTCCCTGCTCAAGAAATGAGAACACCCGCAATGAGTGCAGCGCGGATCCT  
 GAACAACCTGTTGGTTCATGGAGTACCACAGGCCACTGGCACGCTCAGCGCCACTTCAGAAACATGTCA  
 CTGAAAAGAATCAAGCGCGCCGACAGGCGTGGTGCAGAGTCGGTGACGGAGGAGAAGTTCACAGTCTGT  
 TTGAGTCTCAGTTCAGCGTTGGCAGCAACGAGCTGGTGTCCAGGTGAAGACCCTGTCCCTCCCTGTGGT  
 CGTTATCGTCCATGGCAGCCAGGACCACAATGCTACTGCCACCCTGCTGTGGGACAATGCCTTTGCTGAG  
 CCGGGCAGGGTGCCATTTGCTGTGCCTGACAAGGTGCTGTGGCCGACGCTGTGTGAAGCGCTCAACATGA  
 AATTCAAGGCTGAAGTACAGAGCAACCGGGCTTGACCAAGAGAACCTCGTGTCTCCTGGCAGAAAACCT  
 GTTCAACATCAGCAGCAACACCTCGAGGACTACAACAGCATGTCTGTCTCCTGGTCCAGTTCAACCGG  
 GAGAACTTGCCCGCTGGA**ACTACACCTTCTGGCAGTGGTTCGACGGGGT**GATGGAGGTGCTGAAGAAGC  
 ACCATAAGCCCCATTGGAATGATGGGGCTATCCTGGGTTTTCGTGAACAAGCAACAGGCCACGACCTGCT  
 CATCAACAAGCCGGACGGGACCTTCTGCTGCGCTT**CAGT**GACTCGGAAATCGGGGGCATACCATTGCT  
 TGGAAGTTT**GACTCTCCGGACCGAAACCTT**GGAATCTGAAGCCATT**CACGACGCGAGATTTCTCCATTC**  
 GGTCCCTGGCCGACCGGCTGGGGACCTGA**ACTACCTT**ATCTACGTGTTCC**CAGACCGACCCAAGGACGA**  
 GGTCTTTGCCAAGTATTACACTCTGACTTGGTTCGTC**CAATGCATCCACAGATGCCGGAGCCAGCGCCA**  
 CCTACATGGACCAGGCTCCTTCCCAGT**CGTGTGCCCTCAACCTCACTACAACATGTACCCACCAACCC**  
 TGACCTGTCTTGACCAAGATGGCGAGTTT**GACCTGGATGAGAGCATGGATGTTGCCAGGCACGTGGAA**  
 GAACTTTTACGCCGGCCATGGACAGTCTCGACGCCCGCCTCTCCCACCTGCTGGTCTCTT**CACCTCCG**  
 CTAGAAGCTCCCTGTCTGAACGCTGGACTCCATGCTTCTCTTGGAAAACCACCTT**CAGTGTGAGGAGCC**  
 CACGTCAGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG227488 representing NM\_001164062  
 Red=Cloning site Green=Tags(s)

```
MAGWIIQAQQLQGDALRQMQLVYGQHFPIEVRHYLAQWIESQPWDAIDLNPQDRGQATQLLEGLVQELQK
KAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNCSSPAGLVDAMSQK
HLQINQRFEELRLITQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLGQLNPQERMSRETALQQKQVS
LETWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIIIDDELIQWKRRQQLAGNGGPPPEGLDVLQSWCE
KLAEEIIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIIISALVTSTFIIIEKQPPQVLKTQTKFAA
TVRLLVGGKLVNVMNPPQVKATIISEQQAKSLLKNENTRNECSGEILNCCVMEYHQATGTLSAHFRNMS
LKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLVSLPVVVIVHGSQDHNATATVLDNAFAE
PGRVPPFAVPDKVLWPQLCEALNMKFAEVQSNRGLTKENLVFLAQKLFNISSNHLEDYNSMSVSWSQFNR
ENLPGWNYTFWQWFDGMEVLKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIA
WKFDSPDRNLWNLKPFTRDFSIIRSLADRLGDLNYLIYVFPDRPKDEVFAKYYTPVLGSSMHPQMPEPAP
PTWTRLLPQSCALNLTCTHTPLTSLTKMASLTWMRAWMLPGTWKNFYAGPWTVSTPASPHELLVSSPP
LEAPCPCRWTPCFSWKTTFSVRSRQL
```

TRTRPLE - GFP Tag - V

**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

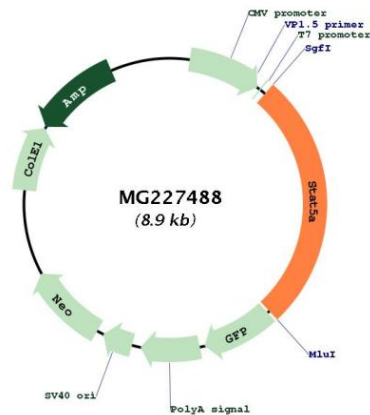
**RefSeq ORF:** 2394 bp

**Locus ID:** 20850

**Cytogenetics:** 11 63.77 cM

**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 MG227488