OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG227269

Stat3 (NM_213660) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stat3 (NM_213660) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stat3
Synonyms:	1110034C02Rik; A; Aprf; AW109958
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG227269 representing NM_213660
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGTGGAACCAGCTGCAGCAGCTGGACACACGCTACCTGGAGCAGCTGCACCAGCTGTACAGCG
ACAGCTTCCCCATGGAGCTGCGGCAGTTCCTGGCACCTTGGATTGAGAGTCAAGACTGGGCATATGCAGC
CAGCAAAGAGTCACATGCCACGTTGGTGTTTCATAATCTCTTGGGTGAAATTGACCAGCAATATAGCCGA
TTCCTGCAAGAGTCCAATGTCCTCTATCAGCACAACCTTCGAAGAATCAAGCAGTTTCTGCAGAGCAGGT
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CAGCAGATGTTGGAGCAGCATCTTCAGGATGTCCGGAAGCGAGTGCAGGATCTAGAACAGAAAATGAAGG
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GACCAGATGCGGAGAAGCATTGTGAGTGAGCTGGCGGGGCTCTTGTCAGCAATGGAGTACGTGCAGAAGA
CACTGACTGATGAAGAGCTGGCTGACTGGAAGAGGCGGCAGCAGATCGCGTGCATCGGAGGCCCTCCCAA
CATCTGCCTGGACCGTCTGGAAAACTGGATAACTTCATTAGCAGAATCTCAACTTCAGACCCGCCAACAA
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TGCTGGAGGAGAGGATCGTGGAGCTGTTCAGAAACTTAATGAAGAGTGCCTTCGTGGTGGAGCGGCAGCC
CTGCATGCCCATGCACCCGGACCGGCCCTTAGTCATCAAGACTGGTGTCCAGTTTACCACGAAAGTCAGG
TTGCTGGTCAAATTTCCTGAGTTGAATTATCAGCTTAAAATTAAAGTGTGCATTGATAAAGACTCTGGGG
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TGCCGATGTCCCCCCGCACTTTAGATTCATTGATGCAGTTTGGAAATAACGGTGAAGGTGCTGAGCCCTC
AGCAGGAGGGCAGTTTGAGTCGCTCACGTTTGACATGGATCTGACCTCGGAGTGTGCTACCTCCCCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

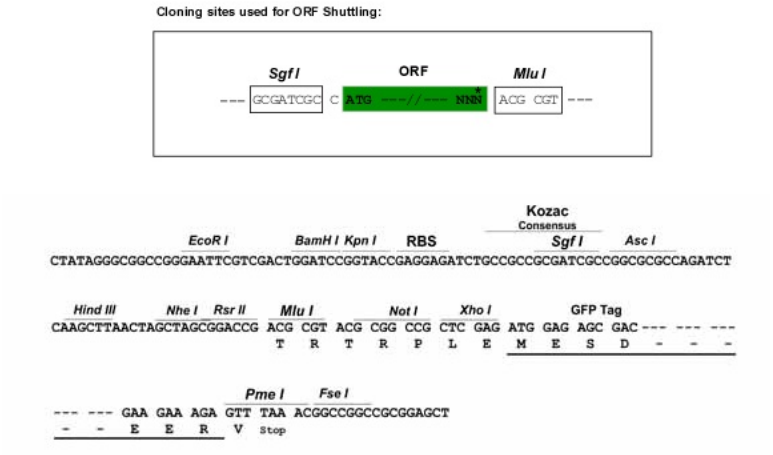
>MG227269 representing NM_213660
Red=Cloning site Green=Tags(s)

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSR
FLQESNVLYQHNLRRIKQFLQSRYLEKPMEIARIVARCLWEESRLLQTAATAAQQGGQANHPTAAVVTEK
QQMLEQHLQDVRKRVQDLEQKMKVVENLQDDFDFNYKTLKSQGDMQDLNGNNQSVTRQKMQQLEQMLTAL
DQMRRSIVSELAGLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLENWITSLAESQLQTRQQ
IKKLEELQQKVSYKGDPIVQHRPMLEERIVELFRNLMKSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVR
LLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGN
GGRANCDASLIVTEELHLITFETEVYHQGLKIDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNV
NFFTKPPIGTWDQVAEVLSWQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFS
FWVWLDNIIDLVKKYILALWNEGYIMGFISKERERAILSTKPPGTFLLRFSESSKEGGVTFTWVEKDISG
KTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVYLYPDIPKEEAFGKYCRPESQEHPEADPG
SAAPYLKTKFICVTPTTCSNTIDLPMSPRTLDSLMQFGNNGEGAEPSAGGQFESLTFDMDLTSECATSPM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_213660

ORF Size: 2307 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_213660.2, NP_998825.1

RefSeq Size: 4484 bp

RefSeq ORF: 2310 bp

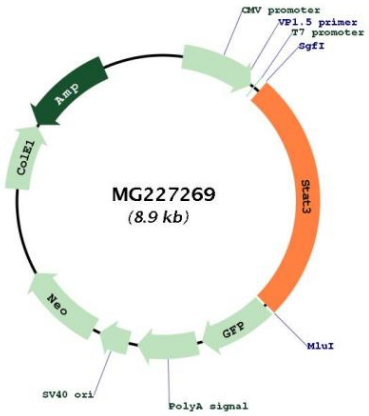
Locus ID: 20848

UniProt ID: P42227

Cytogenetics: 11 63.82 cM

Gene Summary: 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]

Product images:



Circular map for MG227269