

Product datasheet for **MR227265**

Stat3 (NM_213659) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stat3 (NM_213659) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stat3
Synonyms:	1110034C02Rik; A; Aprf; AW109958
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR227265 representing NM_213659
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCAGTGGAAACAGCTGCAGCAGCTGGACACACGCTACCTGGAGCAGCTGCACCAGCTGTACAGCG
ACAGCTTCCCATGGAGCTGCGGCAGTTCTGGCACCTTGGATTGAGAGTCAAGACTGGGCATATGCAGC
CAGCAAAGAGTCACATGCCACGTTGGTGTTCATAATCTCTGGGTGAAATTGACCAGCAATATAGCCGA
TTCCTGCAAGAGTCCAATGTCCTCTATCAGCACAACTTCGAAGAATCAAGCAGTTTCTGCAGAGCAGGT
ATCTTGAGAAGCCAATGGAAATTGCCCGGATCGTGGCCGATGCCTGTGGGAAGAGTCTCGCCTCTCCA
GACGGCAGCCACGGCAGCCAGCAAGGGGGCCAGGCCAACCCCAACAGCCGCCGTAGTGACAGAGAAG
CAGCAGATGTTGGAGCAGCATCTCAGGATGTCCGGAAGCGAGTGCAGGATCTAGAACAGAAAATGAAGG
TGTTGGAGAACCCTCAGGACGACTTTGATTTCACTACAAAACCTCAAGAGCCAAGGAGACATGCAGGA
TCTGAATGAAAACAACCACTCTGTGACCAGACAGAAGATGCAGCAGCTGGAACAGATGCTCACAGCCCTG
GACCAGATGCGGAGAAGCATTGTGAGTGAAGTGGCGGGGCTCTTGTGAGCAATGGAGTACGTGCAGAAGA
CACTGACTGATGAAGAGCTGGCTGACTGGAAGAGGCGGCAGCAGATCGCGTGCATCGGAGGCCCTCCCAA
CATCTGCCTGGACCGTCTGGAAAACCTGGATAAATTATTAGCAGAATCTCAACTTCAGACCCGCCAACAA
ATTAAGAAAACCTGGAGGAGCTGCAGCAGAAAAGTGTCTACAAGGGCGACCCATCGTGCAGCACCGGCCCA
TGCTGGAGGAGAGGATCGTGGAGCTGTTGAGAACTTAATGAAGAGTGCCTTCGTGGTGGAGCGGCAGCC
CTGCATGCCCATGCACCCGACCGGCCCTTAGTCATCAAGACTGGTGTCCAGTTTACCACGAAAGTCAGG
TTGCTGGTCAAATTTCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGATAAAGACTCTGGGG
ATGTTGCTGCCCTCAGAGGGTCTCGGAAATTTAACATTCTGGGCACGAACACAAAAGTGAATGAACATGGA
GGAGTCTAACAACGGCAGCCTGTCTGCAGAGTTCAAGCACCTGACCCCTTAGGGAGCAGAGATGTGGGAAT
GGAGGCCGTGCCAATTGTGATGCCTCCTTGATCGTGAAGGAGCTGCACCTGATCACCTTCGAGACTG
AGGTGTACCACCAAGGCCTCAAGATTGACCTAGAGACCCACTCCTTGCCAGTTGTGGTGTCTCCAACAT
CTGTGAGATGCCAAATGCTTGGGCATCAATCCTGTGGTATAACATGCTGACCAATAACCCCAAGAACGTG
AACTTCTTCACTAAGCCGCAATTGGAACCTGGGACCAAGTGGCCGAGGTGCTCAGCTGGCAGTTCTCGT
CCACCACCAAGCGGGGGCTGAGCATCGAGCAGCTGACAACGCTGGCTGAGAAGCTCCTAGGGCCTGGTGT
GAACTACTCAGGGTGTGAGATCACATGGGCTAAATTTGCAAAGAAAACATGGCTGGCAAGGGCTTCTCC
TTCTGGGTCTGGCTAGACAATATCATCGACCTTGTGAAAAGTATATCTTGGCCCTTTGGAATGAAGGGT
ACATCATGGGTTTCATCAGCAAGGAGCGGGAGCGGCCATCCTAAGCACAAAGCCCCGGGCACCTTCTCT
ACTGCGCTTCAGCGAGAGCAGCAAAGAAGGAGGGGTCACTTTCCTTGGGTGGAAAAGGACATCAGTGGC
AAGACCCAGATCCAGTCTGTAGAGCCATACACCAAGCAGCAGCTGAACAACATGTCATTTGCTGAAATCA
TCATGGGCTATAAGATCATGGATGCGACCAACATCCTGGTGTCTCCACTTGTCTACCTCTACCCCGACAT
TCCAAGGAGGAGGCATTTGAAAGTACTGTAGGCCCGAGAGCCAGGAGCACCCGAAGCCGACCCAGGT
AGTGTGCCCCGTACCTGAAGACCAAGTTCATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACC
TGCCGATGTCCCCCGCACTTTAGATTCATTGATGCAGTTTGGAAATAACGGTGAAGGTGCTGAGCCCTC
AGCAGGAGGGCAGTTTGAGTCGCTCACGTTTGACATGGATCTGACCTCGGAGTGTGCTACCTCCCCCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227265 representing NM_213659
Red=Cloning site Green=Tags(s)

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSR
 FLQESNVLYQHNLRRIKQFLQSRYLEKPMEIARIVARCLWEESRLLQTAATAAQGGQANHPTAAVVTEK
 QQMLEQHLQDVRKRVQDLEQKMKVVENLQDDDFNYKTLK SQGDMQDLNGNNSVTRQKMQQLEQMLTAL
 DQMRRRSIVSELAGLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLLENWITSLAESQLQTRQQ
 IKKLEELQQKVSYKGDPIVQHRPMLERIVELFRNLMKSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVR
 LLVKFPELNYQLKIKVCIDKDSGDVAALRGRKFNILGNTKVMNMEESNNGSLSAEFKHLTLREQRGN
 GGRANCDASLIVTEELHLITFETEYVHQGLKIDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNV
 NFFTKPPIGTWDQVAEVLWQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGS
 FWWLDNIIDLVKKYILALWNEGYIMGFISKERERAILSTKPPGTFLRFSESSKEGGVFTFWEKDISG
 KTQIQSVEPYTKQLNNSFAEIIIMGYKIMDATNILVSPLVYL YPDIPKEEAFGKYCRPESQEHPEADPG
 SAAPYLKTKFICVPTTCSNTIDL PMSPRTLDSL MQFGNGEGAEPSAGGQFESLTFDMDLTSECATSPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_213659

ORF Size: 2310 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](#)

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_213659.3](#)

RefSeq Size: 4487 bp

RefSeq ORF: 2313 bp

Locus ID: 20848

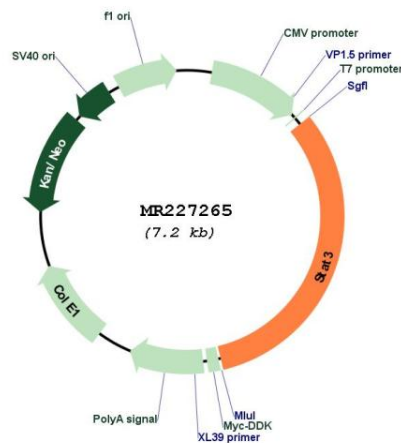
UniProt ID: [P42227](#)

Cytogenetics: 11 63.82 cM

MW: 88.5 kDa

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 MR227265