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Product datasheet for RR210986

Stat3 (NM_012747) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stat3 (NM_012747) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stat3
Synonyms:	MGC93551
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR210986 representing NM_012747
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGTGGAACCAGCTCCAGCAGCTGGACACGCGCTACCTGGAGCAGCTTCATCAGCTGTACAGCG
ATAGCTTCCCCATGGAGCTGCGGCAGTTCCTGGCGCCTTGGATTGAGAGCCAAGATTGGGCATATGCAGC
CAGCAAAGAGTCACACGCCACTCTGGTGTTTCATAACCTCTTGGGCGAGATCGACCAGCAGTATAGCCGA
TTCCTGCAGGAGTCCAATGTCCTCTATCAGCACAACCTGCGAAGAATCAAGCAGTTCCTGCAGAGCAGGT
ATCTTGAGAAGCCAATGGAAATTGCCCGGATTGTGGCCCGATGCCTGTGGGAAGAGTCTCGCCTCCTCCA
GACGGCAGCCACGGCAGCCCAGCAAGGGGGCCAGGCCAACCACCCCACAGCTGCCGTAGTGACGGAGAAG
CAGCAGATGCTGGAACAGCATCTTCAGGATGTCCGGAAGCGTGTGCAGGATCTAGAACAGAAAATGAAAG
TGGTGGAGAATCTCCAGGATGACTTTGATTTCAACTATAAAACCCTCAAGAGTCAAGGAGACATGCAGGA
TCTGAATGGAAACAACCAGTCTGTGACCAGACAGAAGATGCAGCAGCTGGAGCAGATGCTCACGGCCCTG
GACCAGATGCGGAGGAGCATCGTGAGCGAGCTGGCAGGGCTCTTGTCAGCAATGGAGTACGTGCAGAAGA
CACTGACCGATGAAGAGCTGGCTGACTGGAAGAGGCGGCAGCAGATAGCGTGCATCGGAGGCCCTCCCAA
CATCTGCCTGGACCGTCTGGAAAACTGGATAACTTCATTAGCAGAATCTCAACTTCAGACCCGCCAACAA
ATTAAGAAACTGGAGGAGCTGCAGCAGAAAGTGTCCTACAAGGGGGACCCTATTGTGCAGCACCGGCCAA
TGCTGGAGGAGAGGATCGTGGATCTGTTCAGAAACTTAATGAAGAGTGCCTTCGTGGTGGAGCGGCAGCC
CTGTATGCCCATGCACCCGG[AT]CCGGCCCTTAGTCATCAAGACTGGTGTCCAGTTTACCACAAAAGTC
AGGTTGCTGGTCAAATTTCCTGAGTTGAATTATCAGCTTAAAATTAAAGTGTGCATTGATAAGGACTCTG
GGGATGTTGCTGCCCTCAGAGGGTCTCGGAAATTTAACATTCTGGGCACGAACACAAAGGTGATGAACAT
GGAGGAGTCCAACAACGGCAGCCTGTCTGCAGAGTTCAAGCACCTGACCCTGAGGGAGCAGAGATGTGGG
AATGGGGGCCGTGCCAATTGTGATGCCTCCTTGATTGTCACTGAGGAGCTGCACCTGATCACCTTTGAGA
CAGAGGTGTACCACCAAGGTCTCAAGATCGACCTAGAGACCCACTCCTTGCCAGTCGTGGTGATCTCCAA
CATCTGTCAGATGCCTAATGCTTGGGCATCAATCCTGTGGTATAACATGCTGACCAATAACCCCAAGAAC
GTGAACTTCTTCACTAAGCCTCCGATTGGAACCTGGGACCAAGTGGCCGAGGTGCTGAGCTGGCAGTTCT
CGTCCACCACCAAGCGAGGGCTGAGCATCGAGCAGCTGACCACGCTGGCCGAGAAGCTCTTAGGGCCTGG
TGTGAACTACTCAGGGTGTCAGATCACATGGGCTAAGTTTTGCAAAGAAAACATGGCCGGCAAGGGCTTC
TCGTTCTGGGTCTGGCTAGACAATATCATCGACCTTGTGAAAAAGTATATCTTGGCCCTTTGGAATGAAG
GGTACATCATGGGTTTCATCAGCAAGGAGCGGGAGAGGGCCATCCTAAGCACAAAGCCCCCGGGCACCTT
CCTGCTGCGGTTCAGTGAGAGCAGCAAGGAAGGAGGGGTCACTTTCACTTGGGTGGAAAAGGACATCAGT
GGCAAGACCCAGATCCAGTCTGTAGAACCATATACCAAGCAGCAGCTGAACAACATGTCATTTGCTGAAA
TCATCATGGGCTATAAGATCATGGACGCTACCAACATCCTGGTATCCCCACTGGTCTACCTCTACCCTGA
CATTCCCAAGGAGGAGGCATTCGGAAAGTATTGTCGCCCCGAGAGCCAGGAGCACCCTGAAGCTGACCCA
GGTAGTGCTGCCCCTTACCTGAAGACCAAGTTCATCTGTGTGACACCAACGACCTGCAGCAATACCATTG
ACCTGCCGATGTCCCCCCGCACTTTAGATTCATTGATGCAGTTTGGAAATAACGGGGAAGGCGCTGAGCC
CTCAGCAGGAGGGCAGTTTGAGTCGCTCACGTTTGACATGGATCTGACCTCGGAGTGTGCTACCTCCCCG
ATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210986 representing NM_012747
Red=Cloning site Green=Tags(s)

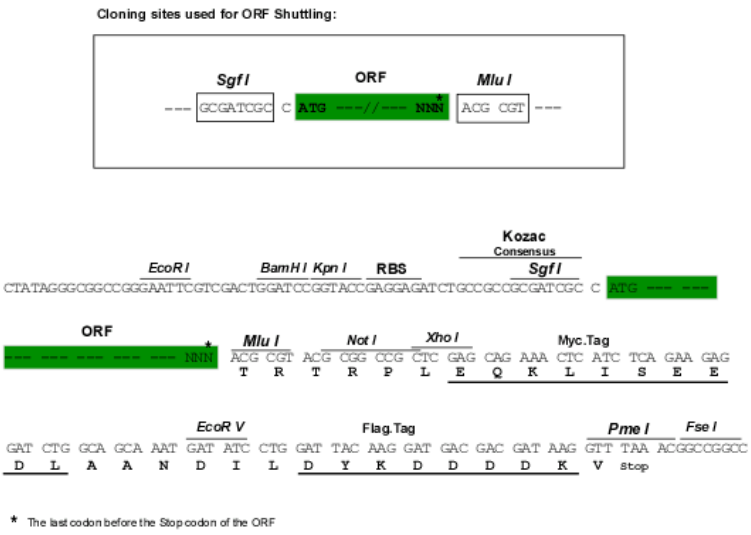
MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSR
FLQESNVLYQHNLRRIKQFLQSRYLEKPMEIARIVARCLWEESRLLQTAATAAQQGGQANHPTAAVVTEK
QQMLEQHLQDVRKRVQDLEQKMKVVENLQDDFDFNYKTLKSQGDMQDLNGNNQSVTRQKMQQLEQMLTAL
DQMRRSIVSELAGLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLENWITSLAESQLQTRQQ
IKKLEELQQKVSYKGDPIVQHRPMLEERIVDLFRNLMKSAFVVERQPCMPMHPXXRPLVIKTGVQFTTKV
RLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCG
NGGRANCDASLIVTEELHLITFETEVYHQGLKIDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKN
VNFFTKPPIGTWDQVAEVLSWQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGF
SFWVWLDNIIDLVKKYILALWNEGYIMGFISKERERAILSTKPPGTFLLRFSESSKEGGVTFTWVEKDIS
GKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVYLYPDIPKEEAFGKYCRPESQEHPEADP
GSAAPYLKTKFICVTPTTCSNTIDLPMSPRTLDSLMQFGNNGEGAEPSAGGQFESLTFDMDLTSECATSP
M

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2107_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012747

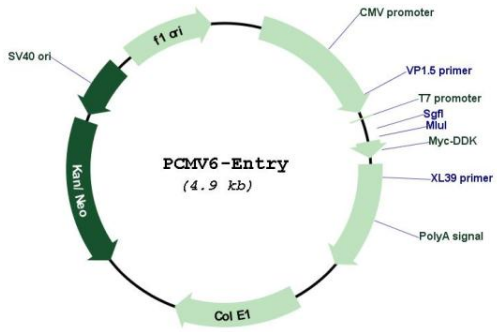
ORF Size: 2310 bp

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_012747.2, NP_036879.1
RefSeq Size:	4457 bp
RefSeq ORF:	2313 bp
Locus ID:	25125
UniProt ID:	P52631
Cytogenetics:	10q31
MW:	88 kDa
Gene Summary:	transcription factor that plays a role in induction of gene expression during acute phase response [RGD, Feb 2006]

Product images:



Circular map for RR210986