

Product datasheet for **RR206846**

Sik1 (NM_021693) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sik1 (NM_021693) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sik1
Synonyms:	Sik; Snf1lk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR206846 representing NM_021693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATCATGTCCGAGTTCAGCGCGGTCCCCACAGGCACCGGCCAGGGCCAGCAGAAGCCCTCCGGG
 TGGGCTTTTACGACGTGGAACGAACCTGGGCAAAGGCAATTTTGCAGTGGTTAAGCTGGCGCGCACCG
 AGTCACCAAAAACGCAGGTTGCAATTAATAATTGACAAGACACGTTAGATTCTAGTAATCTGGAGAAG
 ATCTACCGGGAGGTCCAGCTCATGAAACTCCTGAACCACCCAAATATTATCAAGCTTTACCAGGTTATGG
 AGACAAAAGACATGCTGTACATTGTACGGAGTTTGCCAAAAATGGAGAAATGTTGATTATCTGACTTC
 CAACGGGCACTTGAGTAAAACGAGGCTAGGAAGAAATCTGGCAGATCCTGTACGCCGTGGAGTACTGC
 CACAACCATCACATCGTCCACCGGGACCTTAAGACAGAGAACCTTCTGCTGGACGGCAACATGGACATCA
 AGCTGGCAGATTTTGGATTTGGGAATTTCTACAAGCCAGGGGAGCCTCTGTCTACTTGGTGTGGGAGCCC
 CCCCTATGCTGCTCCCGAAGTCTTTGAGGGGAAGGAGTATGAAGGTCCCCAGCTGGACATCTGGAGCCTC
 GCGTGGTGTGTATGTCTGTTGTGTGGCTCCCTCCCTTTTGTGGACCAACCTGCCTACGCTGAGAC
 AGCGGGTGTGGAGGGCCGCTTCCGCATCCCTTCTTATGTCTCAAGACTGTGAGACACTGATCAGACG
 CATGCTGGTAGTGGACCCCGCAAGCGCATCACCATTGCCAGATCCGCCAGCACCGATGGATGCAGGCC
 GACCCACCTCCTGCAGCAGGACGACCCTGCCTTCTCCATGCAGGGCTACACCTCCAACCTGGCGGACT
 ACAACGAGCAGGTGCTGGGCATCATGCAGGCCCTGGGCATCGACCGGCAGAGGACAGTAGAGTCTCTACA
 GAACAGCAGCTACAACCACTTTGCGGCTATTTACTACCTCCTGCTCGAGCGCCTCAGGGAGCATCGAAGC
 ACCCAGCCCTCATCCCGGGCCACCCCTGCACCTGCCAGACAGCCTCAGCTCCGAAACTCAGACCTCAGCA
 GTCTGGAGGTTCCCTCAAGAAATTTCCCATGTGACCCTTTCCGGCCCTCTCTGCTGTGCCGACGCCCCA
 GGCTTGGCTCAGTCTGCTCCTGCAGGCTGAGATAGACTGTGATCTCCACAGTTTCGCTTCAGCCCTTATTC
 TCCCCCTGGATACCAACTGCAGCGGAGTGTCCGGCACCGATCCATCTCCCCAGCAGCCTGCTGGACA
 CAGCTATCAGTGAGGAGGCCAGGAGGGTCCCAGCCTGGAGGAGGAGCAGGAGGTCCAGGAACCCCTGCC
 TGGCAGCACTGGCCGGAGGCATACACTGGCTGAAGTTTCCACCCACTTCTCCCGCTCAACCCTCCTTGC
 ATAATTGTCTCCTCCTGCGCTGTGAGTCCCTCGGAAGGAACTAGCTCTGACAGCTGCCTCCCCTTCT
 CTGCAAGCGAAGGTCTGCAGGGCTTGGTGGTGGCCTGGCCACCCAGGGCTTCTGGGCACCAGCTCTCC
 AGTCAGATTGGCCTCACCTTCTGGGATCACAGTCAGCCACCCCTGTGCTACAGAGTCAGGCAGGTCTG
 GGTGCGACTGTCTTACCTCCTGTGAGTCCAGGAGGGACGGAGAGCGTCCGATACGTCTCTCACTCAAG
 GGCTGAAGGCCTTCCGGCAGCAGCTAAGGAAAAACGCGAGGACCAAGGGTTCTGGGACTGAACAAGAT
 CAAAGGATTGGCCCGTCAGGTGTGCCAGTCTCCATCCGAGGTTCCCGGGGAGGGATGAGTACCTCCAC
 ACCCCGGCCCCAAGCTCAGGTCTGCAAGGCTGCACGGCCAGCAGTCGCGAGGGCAGGAGCCTGCTCGAAG
 AGGTGCTGCACCAGCAGAGGCTGCTCCAGTTACAGCACCCTCAGCCGTCTCATCTGACTACCAGCAGGC
 CCCCCAAGTGTCCCCGTCCCCTACGTGCTCACTCCCTGTGATGGCCTTCTCGTGTCTGGAATCCCCTG
 CTGCCAACGCCCTCCTCCAGCCCGCATGTCCCCGTGGCGTCTGCCCGCAGCTCCTGGATGCCCACT
 TGCACATCAGTGTGGCCAGTGGCCCTCCCCTGCTCCCTGCCACAGTGCCTCACCAGGCTGTCCCC
 AAGCTGTGATCCTGCTGGGCTGCCGAGGGGATTGTGAGATGGAGGACCTGACCTCTGGCCAGCGGGGG
 ACGTTCGTCCTGGTACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206846 representing NM_021693
Red=Cloning site Green=Tags(s)

MVIMSEFSAVPTGTGQGQKPLRVGFYDVERTLGKGNFAVVKLARHRVTKTQVAIKIIDKTRLDSSNLEK
IYREVQLMKLLNHPNIIKLYQVMETKDMLYIVTEFAKNGEMFDYLTSNHLSENEARKKFWQILSAVEYC
HNHHIVHRDLKTENLLLDGNMDIKLADFGFGNFYKPGPEPLSTWCGSPPYAAPEVFEGKEYEGPQLDIWSL
GVVLYVLVCGSLPFDGPNLPTLRQRVLEGRFRIPFFMSQDCETLIRRMLVVDPAKRITIAQIRQHRWMA
DPTLLQQDDPAFMSQGYTSNLGDYNEQVLGIMQALGIDRQRTVESLQNSSYNHFAAIYYLLERLREHRS
TQPSSRATPAPARQPQLRNSDLSSEVPQEILPCDPFRPSLLCPQPQALAQSVLQAEIDCDLHSSLQPLF
FPLDTNCSGVFRHRSISPSLLDTAISEEARQGPSLEEEQEQEPLPGSTGRRHTLAEVSTHFSPLNPPC
IIVSSAAVSPSEGTSSDCLPFSASEGPAGLGGGLATPGLLGTSSPVRLASPFLGSQSATPVLQSQAGL
GATVLPVVSFQEGRRASDTSLTQGLKAFRQQLRKNARTKGFLGLNKIKGLARQVCQSSIRGSRGGMSTFH
TPAPSSGLQGCTASSREGRSLLEEVHLHQRLQLQHSAVSSDYQQAPQLSPVPVYLTPCDGLLVSGIPL
LPTPLLQPGMSPVASAAQLLDAHLHISAGPVALPTGPLPQCLTRLSPSCDPAGLPQGDCEMEDLTSGQRG
TFVLVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_021693

ORF Size: 2328 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_021693.2](#), [NP_067725.2](#)

RefSeq Size: 2650 bp

RefSeq ORF: 2331 bp

Locus ID: 59329

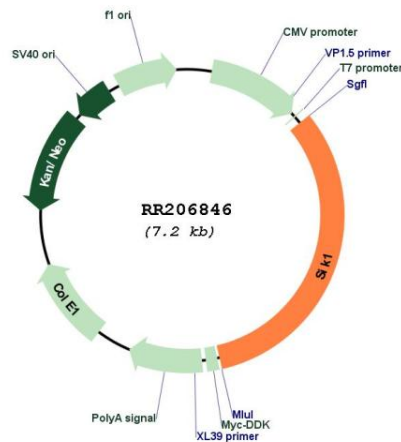
UniProt ID: [Q9R1U5](#)

Cytogenetics: 20p12

MW: 84.9 kDa

Gene Summary: inhibits CREB binding and transcription of cAMP-responsive element (CRE)-dependent genes Cyp11A and Star [RGD, Feb 2006]

Product images:



Circular map for RR206846