

Product datasheet for **RC239409**

SIN3B (NM_001297597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIN3B (NM_001297597) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIN3B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239409 representing NM_001297597
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCGTCATTACCGCATTTCCTCTTGGTGCAGTACTGAACGACACCTGGGTCTCCTTCCCTTCTCT
GGTCTGAGGACTCCACGTTTCGTCAGCTCCAAGAAGACACCGTACGAGGAGCAGCTTCACCGCTGTGAGGA
CGAGCGCTTCGAGTTAGACGTTGTCTGAGACGAACCTGGCCACAATCCGTGTGTTGAAAAGTGTGCAG
AAGAAGCTGTCTCGGATGGCGCCGGAAGACCAGGAGAAGTTCCGGCTGGACGACTCCCTGGGAGGCACGT
CGGAGGTGATCCAGCGCCGTGCCATTTATCGCATCTATGGCGACAAGGCCCGGAGATCATCGAGAGCCT
CAAGAAGAACCCTGTACCGCTGTCCCGTTGTCTGAAAAGACTGAAGGCCAAGGAAGAGGAGTGGCGG
GAGGCCACGACGGCTTCAACAAGATCTGGCGGGAGCAGTATGAGAAGGCGTACCTCAAGTCCCTTGACC
ACCAGGCTGTGAACCTAAGCAGAACGACACCAAGGCCCTGCGCTCCAAGAGCTTGTCAACGAGATCGA
GAGCGTCTACGACGAGCACCAGGAGCAGCACTCGGAGGGCCGAGTGCCCCCTTAGCGAGCCGCACCTC
ATCTTTGTGTACGAGGACCGGCAGATCCTGGAGGACGCAGCAGCGCTCATCAGCTACTACGTGAAGCGGC
AGCCGGCCATCCAGAAGGAGGACCAGGGCACCATCCACCAGCTGTGCACCAGTTTCGTGCCACGCTCTT
CTTCTCTCAGCAGCTGGACCTGGGCGCCTCCGAGGAGTACGCTGATGAGGACCGGGACAGCCCCAGGGG
CAGACCACAGACCCAGTGAGCGGAAGAAGCCGGCGCCAGGACCCACAGTAGCCCCCAGAGGAGAAGG
GGGCTTCGGGGATGCCCGGCCACTGAGCAGCCACCCCTGCCGCCCCAGCCCCGACAAGCCCCCTGGA
CGATGTCTACAGCCTATTTTTGCCAACAACAAGTGGTACTTCTTCTGCGCCTGCACCAGACCTGTGC
TCCAGGCTGTGAAGATCTACGCCAGGCGCAGAAGCAGCTTCTGGAGTATCGGACCGAGAAGGAGCGGG
AGAAGTGTGTGAGGGCCGACGGGAGAAGGGCAGCGACCCCGCCATGGAGCTGCGGCTGAAGCAGCC
CAGTGAAGTGGAGCTGGAGGAGTACTACCGGCCCTTCTGGACATGGTGGGAGCCTGCTGGAGGGCAGC
ATCGACCCACGCAGTACGAGGACACCCTACGCGAGATGTTACCATCCATGCCTACGTGGGCTTACCA
TGGACAAGCTGGTGCAGAACATTGCGCGGCAGCTGCACCACCTCGTGAGCGATGACGCTGCCTGAAGGT
GGTGGAGCTTACCTGAACGAGAAGAAGCGGGGTGCCGCTGGTGGGAACCTGTCTCCCGCTGCGTCCGC
GCTGCTAGGGAGACCAGCTACCAGTGAAGGCTGAGCGCTGCATGGCCGACGAGAAGTCTCAAGGTGA
TGTTCTGCAGCGCAAAGGGCAGGTGATCATGACCATCGAGCTCCTGGACACCGAGGAGGCCAGACGGA
GGACCTGTGGAGGTCCAGCACCTGGCTCGGTACGTGGAGCAGTATGTGGGGACCGAGGGCGCTCCAGC
TCGCCCCTGAGGGCTTCTCTGAAACCTGTGTTCTGTCAGAGGAACCTCAAGAAGTTCGCGCCCGGT
GGCAGAGCGAGCAGGCGCGGGCCCTGCGCGGTGAGGCCAGGAGCTCCTGGAAGCGCTGGTGGGCGTGG
GAGCGCTGCGACGTGGACTGCCGCTTCAAGCTCAGCACTCAACAAGATGGTGTTCATCGTGAACCTCCGAG
GACTACATGTACCGTTCGCGGGACCTCTGCCGGGCAAGCAGGTGCAGCCCTGGTCTGCTCCGCCACC
ACCAGCACTTTGAGGAGTGGCACAGCCGCTGGCTGGAGGACAAATGTGACGGTGGAGGCGGCTAGCCTGGT
GCAGGACTGGCTGATGGGTGAGGAGGACGAGGACATGGTACCCTGCAAGACGCTGTGTGAGACAGTGCAC
GTGCACGGCTGCCCGTACCCGCTACCGCGTGCAGTACAGCCCGCCCGCCGCTCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239409 representing NM_001297597
 Red=Cloning site Green=Tags(s)

MQRHSRHFLLVQVLNDTWVSFSPWSEDSTFVSSKKTPEEQLHRCEDERFELDVVLETNLATIRVLESVQ
 KKL SRMAPEDQEKFRLDDSLGGTSEVIQRRAIYRIYGDKAPEIIESLKKNPVTAVPVVLKRLKAKEEWR
 EAQQGFNKIWRQYKAYLKSLDHQAVNFKQNDTKALRSKLLNEIESVYDEHQEQHSEGRSAPSSSEPHL
 IFVYEDRQILEDAAALISYYVKRQPAIQKEDQGTIHLHQFVPSLFFSQQLDLGASEESADEDSDSPQG
 QTTPSERKKPAPGPHSSPPEEKGAFGDAPATEQPPLPPPAPHKPLDDVYSLFFANNWYFFLRHLHQLC
 SRLKKIYRQAQKQLLEYRTEKEREKLLCEGRREKGS DPAMELRKQPSEVELEEYPAFLDMVRSLLLEGS
 IDPTQYEDTLREMFTIHAYVGFMDKLVQNIARQLHHLVSDDVCLKVVLYLNEKKRGAAGGNLSSRCVR
 AARETSYQWKAERCMADENCFKVMFLQRKGQVIMTIELLDTEEAQTEDPVEVQHLARYVEQYVGTGEGASS
 SPTEGFLKPVFLQRNLKFFRRRWQSEQARALRGEARSSWKRLVGVESACDVDCRFKLSHKMVFVNSE
 DMYRRGTL CRAKQVQPLVLLRHHQHFEEWHSRWLEDNVTVEASLVQDWLMGEEDEDMVPCKTLCETVH
 VHGLPVTRYRVQYSRRPASP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

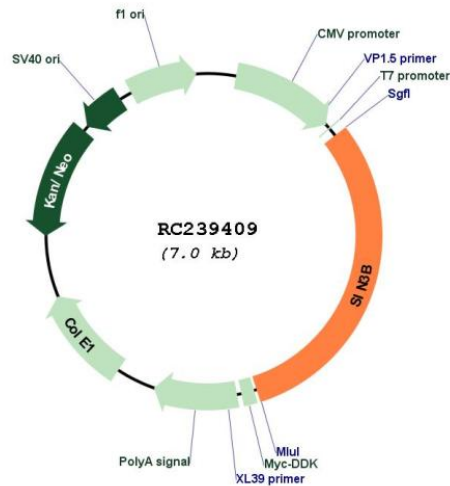
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001297597

ORF Size: 2160 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_001297597.1](#), [NP_001284526.1](#)

RefSeq Size: 4159 bp

RefSeq ORF: 2163 bp

Locus ID: 23309

UniProt ID: [O75182](#)

Cytogenetics: 19p13.11

MW: 84.1 kDa

Gene Summary: Acts as a transcriptional repressor. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Interacts with MAD-MAX heterodimers by binding to MAD. The heterodimer then represses transcription by tethering SIN3B to DNA. Also forms a complex with FOXK1 which represses transcription. With FOXK1, regulates cell cycle progression probably by repressing cell cycle inhibitor genes expression.[UniProtKB/Swiss-Prot Function]