

Product datasheet for RC239993

SIN3B (NM_001297595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIN3B (NM_001297595) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIN3B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239993 representing NM_001297595 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGGCGCAGCTGGCGGTGGCAGCGGTGGCAGCGGTGCCGGCGGCCCGCGGGCCGGGGGCTGAGCGGGC
CCCGCTGGGGTCGCTCGGGCTCCGACGGCCACGAGAAGCTGCCGGTGCACGTAGAAGACGCCTCACCTA
TCTGGACAGGTGAAGATCCGCTTTGGCAGCGACCTGCCACCTACAACGGCTTCTGGAGATCATGAAG
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Protein Sequence:

>RC239993 representing NM_001297595
 Red=Cloning site Green=Tags(s)

MAHAGGSGSGGAGGPAGRGLSGARWGRSGSAGHEKLPVHVEDALTYLDQVKIRFGSDPATYNGFLEIMK
 EFKSQSIDTPGVIRRVSQFLFHEHPDLIVGFNAFLPLGYRIDIPKNGKLNISPLTSQENSHNHGDGAEDF
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 EEVFTEVANLFRGQEDLLSEFGQFLPEAKRSLFTGNGPCMHVSQKNEHDKTPEHSRKRSRPSSLRPVSA
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 FLGKFPPELFAQFKSFLGVKELSFAPPMSDRSGDGI SREIDYASCKRIGSSYRALPKTYQQPKCSGRTAIC
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 AERCMADENCFKVMFLQRKQVIMTIELLDTEEAQTEDPVEVQHLARYVEQYVGTGASSSPTEGFLKLP
 VFLQRNLKFRRRWQSEQARALRGEARSSWKRLVGVESACDVDCRFKLSHKMVFIVNSEDYMYRRGTLC
 RAKQVQPLVLLRHHQHFEWHSRWLEDNVTVEAASLVQDWLMGEEDDMVPCKTL CETVHVHGLPVTRYR
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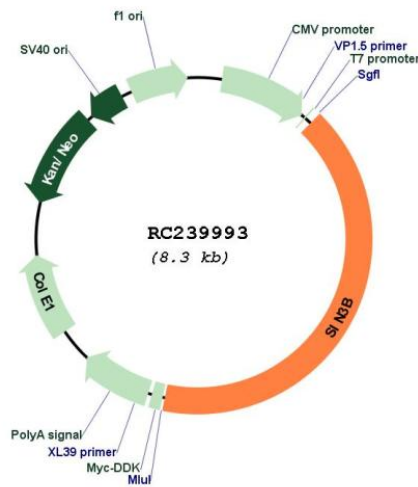
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297595

ORF Size: 3390 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_001297595.2](#)

RefSeq Size: 5053 bp

RefSeq ORF: 3393 bp

Locus ID: 23309

UniProt ID: [O75182](#)

Cytogenetics: 19p13.11

MW: 129.8 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]