

Product datasheet for MC223551

Sin3b (NM_009188) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sin3b (NM_009188) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sin3b
Synonyms:	2810430C10Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223551 representing NM_009188 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCATGCAGGCAGCGGAGGCTCCGCGGGCCGGGATTTCGGTGGCTCCCGCTGGGGTTCGTTCCGGCT
CCGGAGGGCAGGAGAAGCTGCCGGTGCAGTGGAGGACGCTCTCACCTACCTCGACCAGGTGAAGATCCG
CTTTGGCAGTGACCCTGCCACCTACAACGGCTTCTGGAGATCATGAAGGAGTTCAAAGCCAGAGCATC
GACACTCCTGGTGTGATCAGGCGTGTGCCAGCTTCCATGAGCACCTGACCTCATCGTGGGGTTTA
ATGCTTTCCTTCCGCTTGGATACCGTATAGACATTCCTCAAGAACGGCAAGCTGAACATCCAGTCGCCGCT
GAGCAGCCAGGACAACCTCCCATAGCCATGGTACTGTGGGGAGGACTTCAAGCAGATGTCCTACAAGGAG
GACAGAGGCCAGGTGCCCTGGAGTCTGACTCTGTGGAGTTCAACAATGCTATCAGCTATGTGAACAAGA
TCAAGACCCGCTTTCTGGACCACCCTGAGATCTACAGGTCCTTCTGGAGATCCTACACCTACCAGAA
GGAACAGCTGCACACTAAGGGCCGTCATTCCGTGGCATGTCTGAGGAGGAGGTTTTACAGAGGTGGCC
AATCTTTCCGTGGTCAGGAGGACCTGCTGTGAGAGTTCGGACAGTTCTGCCTGAGGCAAGCGGTCCC
TGTTTACAGGCAATGGTCTGCGAGATGAACAGTGGGCAGAAGAATGAGGAGAAGAGCTGGAACACAA
CAAGAAAACGCTCTCGCCCTTCACTCCTGCGCCCTGTGTCTGCGCCAGCCAAGAAGAAGATGAAGCTCCGA
GGCACC AAAGACCTGTCCATTGTGCCGTGGGAAATACGGCACACTGCAGGAATTCTCCTTCTTTGACA
AGGTGCGCAGGGTCTGAAGAGCCAGGAGTATATGAGAACTTTCTGCGCTGCATTGCGCTCTTCAATCA
GGAGCTGGTGTCCGGTCTGAGTTGCTGCAGCTTGTGAGTCCATTCTGGGGAAATTTCCAGAACTTTT
GCACAGTTCAAGTCTTCTAGGAGTGAAGAGCTGTCTTTGCACCACCTATGAGTGACCGGTCTGGAG
ATGGGATAAGCAGAGAAATTGACTATGCGTCTTGTAAAGCGAATAGGATCCAGCTATCGGGCACTTCCAA
GACCTACCAGCAGCCCAAGTGCAGCGGAAGGACTGCCATTTGCAAGGAGGTCTGAATGATACATGGGTC
TCCTTTCCATCCTGGTCTGAAGACTCCACCTTTGTAGCTCCAAGAAGACGCCCTACGAGGAGCAACTGC
ATCGCTGTGAGGATGAGAGATTTGAATTGGATGTTGTCCTGGAGACCAACCTGGCCACCATCCGAGTGCT
GGAGAGTGTGCAGAAGAAGTTGTACGGATGGCTCCTGAGGACCAGGAGAAGCTCCGCTGGATGACTGC
CTGGGTGGCACATCAGAGGTGATTCAACGCCGTGCCATACACCGCATCTATGGAGACAAGGCCCCAGAGG



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TCATTGAGAGCCTGAAAAGGAACCTGCCACCGCTGTGCCTGTCGTTCTGAAAAGGCTGAAGGCCAAGGA
 GGAGGAGTGGCGGGAGGCCAGCAGGGCTTCAACAAGATCTGGCGTGAGCAGTACGAGAAAGCATACCTC
 AAGTCCCTGGACCACCAGGCTGTGAAGTCAAGCAGAATGACACCAAGGCACTGCGCTCTAAGAGCCTGC
 TCAATGAGATCGAAAGTGTCTATGATGAGCACCAGGAGCAGCACTCAGAGGGCCGAGTGCCTCCAG
 CGAGCCGACCTTATCTTCGTGTATGAGGACCGACAGATCCTAGAGGACGCAGCAGCACTCATCAGTAC
 TATGTTAAGCGGCAGCCAGCCATTTCAGAAAGAGGACCAGGGCACTATCCGCCAGTGTTCACCGTTTCC
 TGCCAGCCTGTTCTTCTCGCAGCAGTGCCTCCGCACTCCGATGACTCTGCTGATGAGCGCGACCGGGA
 CCGGGACAGCGCTGAGCCTGAGCGCCGCGGCCACAGATGAGAAGCCCCCTGCAGATGCATCTCCAGAA
 CCGCCCAAGTCTGGACGATGTGTACAGTCTGTTTTTGGCAACAACAAGTGGTACTTCTTCTGCGGC
 TGCACCAGACGCTGTGCGCCCGCTGCTCAAGATCTACCGGCAGGCGCAGAAGCAGCTGTGGAACATCG
 ACGAGAGCAGGAGAGGGAGCAGCTGCTGTGCGAGGGCCGCGTGAGAAGGCTGCAGACCCTGCCATGGAG
 CTGCGACTCAAGCAGCCTAGTGAAGTGGAGCTGGAGGAGTACTACCGGCCTTCTGGACATGGTGGGA
 GCCTGCTAGAGGGGAGCATCGACCCACACAGTATGAGGACACTCTCCGTGAGATGTTACCATCCATGC
 CTACATTGGCTTCACTATGGACAAGCTAGTGCAGAACATTGCCCGCCAGCTACCCATCTGGTGAGTGAC
 GACGTATGTCTGAAGTGGTAGAGCTGTACCTGAATGAGCAGCAGCGAGGGGCAGCGGGGGAAACCTGT
 CCTCCAGATGTGTTTCGTGACGACGGGAGACTAGCTATCAGTGAAGCGGAGCGCTGCATGGCAGATGA
 GAACTGCTTCAAGTAATGTTCCCTGCAGCGCAGAGGTCAGGTGATCATGACCATAGAGCTCCTGGACACA
 GAAGAGGCACAGACTGAGGACCTGTGGAGGTACAGCACTGGCTCGCTATGTGGAGCAGTATGTGGGT
 CTGAGGGTGCAATCCAGCTCATCTACTGAAGGCTTCTGCTGAAGCCGGTGTCTCTGCAGAGGAACCTGAA
 GAAGTTCGCGCTTGGCAGTGTGAGCAGGTACGTGCCATGCGCGGTGAGGCTAAGAGCTCCTGGAAGCGG
 CTCATGGCGTGGAGAGCGCTTGTGATGTGACTGCCGTTCCGCTTGGGCACACACAAGATGGTGTTC
 TCGTCAATTCCGAGGACTACATGTACCGCCGTGGGACACTATGCCGTGCCAAGCAGGTGCAGCCCCTGGT
 GTTGTTCGCCACCACCGCACTTCGAGGAGTGGCATGGTCTGCTGGCTGGAGACAATGTAAGTGGCG
 CGGCAGGGCTGGTGCAGGACTGGCTGATGGGTGAGGAAGAGGAGGACATGGTACCCTGCAAGACGCTTT
 GCGAGACTGCGCATGTTACGGGTGCCGGTACTCGCTACCGAGTGCAGTACAGCCGCCCGCTGCTTC
 ACCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_009188
- Insert Size:** 3297 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_009188.4](#), [NP_033214.2](#)

RefSeq Size: 4135 bp

RefSeq ORF: 3297 bp

Locus ID: 20467

UniProt ID: [Q62141](#)

Cytogenetics: 8 35.08 cM

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 FOXP1 which represses transcription. With FOXP1, regulates cell cycle progression probably by repressing cell cycle inhibitor genes expression (PubMed:22476904). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer variant and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.