

## Product datasheet for **SC337887**

### SIN3B (NM\_001297595) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | SIN3B (NM_001297595) Human Untagged Clone  |
| Tag:                      | Tag Free   |
| Symbol:                   | SIN3B  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_001297595, the custom clone sequence may differ by one or more nucleotides |

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ATGGCGCACGCTGGCGGTGGCAGCGGTGGCAGCGGTGCCGGCGGCCCGCGGGCCGGGGGCTGAGCGGCG
CCCCGCTGGGGTCGCTCGGGCTCCGACGGCCACGAGAAGCTGCCGGTGCACGTAGAAGACGCCCTCACCTA
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GAGTTCAAAGCCAGAGCATCGATACTCCTGGAGTCATCAGACGTGTCTCGCAGCTTCCACGAGCACC
CTGACCTCATTGTTGGATTCAACGCTTTTCTCCCTCGGATATAGAATAGACATTTCCAAGAATGGCAA
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ACGCCATCAGCTATGTGAATAAGATTAACACCCGCTTCTAGACCACCCAGAAATCTACAGTCTATTCTCT
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GAGGAGGTGTTACCCGAGGTGGCCAACCTTCCGGGGCCAGGAGGACCTGCTCTCAGAGTTTGGACAGT
TCCTGCCCGAAGCCAAGCGGTCTCTGTTACAGGAAACGGGCCGTGCGAGATGCACAGCGTGCAGAAGAA
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AGGATCCAGCTACCGGGCACTCCCCAAAACCTACCAGCAGCCAAAGTGCAGTGGGAGGACAGCCATCTGC
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CAGGAAAGTTCGGCTGGACGACTCCCTGGGAGGCACGTCCGAGGTGATCCAGCGCCGTGCCATTTATC
GCATCTATGGCGACAAGGCCCGGAGATCATCGAGAGCCTCAAGAAGAACCCTGTCACTGCTGCCCCGT
TGTCTGAAAAGACTGAAGGCCAAGGAAGAGGAGTGGCGGGAGGCCAGCAGGGCTTCAACAAGATCTGG
CGGGAGCAGTATGAGAAGCGTACCTCAAGTCCCTTGACCACCAGGCTGTGAACTTCAAGCAGAACGACA

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CCAAGGCCCTGCGCTCCAAGAGCTTGCTCAACGAGATCGAGAGCGTCTACGACGAGCACCAGGAGCAGCA  
 CTCGGAGGGCCGAGTGCCCCCTCTAGCGAGCCGCACCTCATCTTTGTGTACGAGGACCGGCAGATCCTG  
 GAGGACGACGAGCGCTCATCAGCTACTACGTGAAGCGGCAGCCGGCCATCCAGAAGGAGGACCAGGGCA  
 CCATCCACCAGCTGCTGCACCAGTTCGTGCCAGCCTCTTCTCTCTCAGCAGCTGGACCTGGGCGCCTC  
 CGAGGAGTCAGCTGATGAGGACCGGGACAGCCCCAGGGGCAGACCACAGACCCAGTGAGCGGAAGAAG  
 CCGGCGCCAGGACCCACAGTAGCCCCCAGAGGAGAAGGGGGCCTTCGGGGATGCCCGGCCACTGAGC  
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 CAACTGGTACTTCTTCTGCGCCTGCACAGACCCTGTGCTCCAGGCTGCTGAAGATCTACCGCCAGGCG  
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 AGGGCAGCGACCCCGCCATGGAGCTGCGGCTGAAGCAGCCAGTGAAGTGGAGCTGGAGGAGTACTACC  
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 GTGTTCTGCAGAGGAACCTCAAGAAGTTCGCCCGCCGGTGGCAGAGCGAGCAGGCGCGGGCCCTGCGCG  
 GTGAGGCCAGGAGCTCCTGGAAGCGGCTGGTGGGCGTGGAGAGCGCTGCGACGTGGACTGCCGTTCAA  
 GCTCAGCACTACAAGATGGTGTTCATCGTGAAGTCCGAGGACTACATGTACCGTCCGCGGACCCCTGCG  
 CGGCCAAAGCAGGTGCAGCCCCGGTCTGCTCCGCCACCACCAGCACTTGGAGGAGTGGCACAGCCGCT  
 GGCTGGAGGACAAATGTGACGGTGGAGGGCGTAGCCTGGTGCAGGACTGGCTGATGGGTGAGGAGGACGA  
 GGACATGGTACCCTGCAAGACGCTGTGTGAGACAGTGCACGTGCACGGCCTGCCCGTGACCCGCTACCGC  
 GTGCAGTACAGCCGCCCGCCGGCCTCGCCCTGA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001297595
- 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\\_001297595.1](#), [NP\\_001284524.1](#)
- RefSeq Size:** 5053 bp
- RefSeq ORF:** 3393 bp
- Locus ID:** 23309

UniProt ID: [O75182](#)

Cytogenetics: 19p13.11

**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]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal segment and is shorter, compared to isoform 1.