

Product datasheet for **MC209405**

Sin3b (NM_001113248) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sin3b (NM_001113248) 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: >MC209405 representing NM_001113248
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCATGCAGGCAGCGGAGGCTCCGCGGGCCGGGATTCCGGTGGCTCCCGCTGGGGTCTCGGGCT
 CCGGAGGGCAGGAGAAGCTGCCGGTGCACGTGGAGGACGCTCTCACCTACCTCGACCAGGTGAAGATCCG
 CTTTGGCAGTGACCCTGCCACCTACAACGGCTTCTGGAGATCATGAAGGAGTTCAAAGCCAGAGCATC
 GACACTCCTGGTGTGATCAGGCGTGTGCCAGCTCTCCATGAGCACCTGACCTCATCGTGGGGTTTA
 ATGCTTTCCTTCCGCTTGATACCGTATAGACATTCCTCAAGAACGGCAAGCTGAACATCCAGTCGCCGCT
 GAGCAGCCAGGACAACCTCCCATAGCCATGGTGACTGTGGGGAGGACTTCAAGCAGATGTCCTACAAGGAG
 GACAGAGGCCAGGTGCCCTGGAGTCTGACTCTGTGGAGTTCAACAATGCTATCAGCTATGTGAACAAGA
 TCAAGACCCGCTTTCTGGACCACCCTGAGATCTACAGGTCCTTCTGGAGATCTACACACCTACCAGAA
 GGAACAGCTGCACACTAAGGGCCGTCATTCCGTGGCATGTCTGAGGAGGAGGTTTTACAGAGGTGGCC
 AATCTTTTCCGTGGTCCAGGAGGACCTGCTGTGAGGTTCCGACAGTTCTGCCTGAGGCAAAAGCGGTCCC
 TGTTTACAGGCAATGGTCCGTGCGAGATGAACAGTGGGCAGAAGAATGAGGAGAAGAGTCTGGAACACAA
 CAAGAAACGCTCTCGCCCTTCACTCTGCGCCCTGTGTCTGCGCCAGCCAAGGTGGGGCTGCAGTTGAAA
 TGTGAGTTGTGTGGTTTGGTTACTGCACAGCTGAGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001113248
Insert Size: 882 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:	<ol style="list-style-type: none">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_001113248.2 , NP_001106719.1
RefSeq Size:	1047 bp
RefSeq ORF:	882 bp
Locus ID:	20467
UniProt ID:	Q62141
Cytogenetics:	8 35.08 cM
Gene Summary:	<p>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 (PubMed:22476904). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks multiple exons and includes an alternate 3' terminal exon, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.</p>