

Product datasheet for **RG239409**

SIN3B (NM_001297597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIN3B (NM_001297597) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIN3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239409 representing NM_001297597.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGCGTCATTCACGGCATTTCCTCTTGGTGCAGTACTGAACGACACCTGGGTCTCCTTCCCTTCC
TGGTCTGAGGACTCCACGTTTCGTACGCTCCAAGAAGACACCGTACGAGGAGCAGCTTACCAGCTGTGAG
GACGAGCGCTTCGAGTTAGACGTTGTCTTGGAGACGAACCTGGCCACAATCCGTGTGTTGAAAGTGTG
CAGAAGAAGCTGTCTCGGATGGCGCCGGAAGACCAGGAGAAGTTCGGCTGGACGACTCCCTGGGAGGC
ACGTCCGAGGTGATCCAGCGCCGTGCCATTTATCGCATCTATGGCGACAAGGCCCGGAGATCATCGAG
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GAGATCGAGAGCGTCTACGACGAGCACCAGGAGCAGCACTCGGAGGGCCGAGTGCCTCCTAGCGAG
CCGCACCTCATCTTTGTGTACGAGGACCGCAGATCCTGGAGGACGCAGCAGCGTCACTAGCTACTAC
GTGAAGCGGCAGCCGGCCATCCAGAAGGAGGACCAGGGCACCATCCACCAGCTGCTGCACCAGTTGCTG
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CACCAGACCCTGTGCTCCAGGCTGTGAAGATCTACCGCCAGGCGCAGAAGCAGCTTCTGGAGTATCGG
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AATGTGACGGTGGAGGGGCTAGCCTGGTGCAGGACTGGCTGATGGGTGAGGAGGACGAGGACATGGTA
CCCTGCAAGACGCTGTGTGAGACAGTGCACGTGCACGGCTGCCCGTACCCGCTACCCGCTGACGAGTAC
AGCCCGCCCGGCCCTCGCC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239409
 Blue=ORF Red=Cloning site Green=Tag(s)

MQRHSRHFLLVQVLNDTWVSFSPWSEDSTFVSSKKTPEEQLHRCEDERFELDVVLETNLATIRVLESV
 QKKLSRMAPEDQEKFRLLDDSLGGTSEVIQRRAIYRIYGDKAPEIESLKKNPVTAVPVVLKRLKAKEEE
 WREAQQGFNKIWRQYKAYLKSLDHQAVNFKQNDTKALRSKLLNEIESVYDEHQEQHSEGRSAPSSE
 PHLIFVYEDRQILEDAALISYYVKRQPAIQKEDQGTIHQLLHQFVPSLFFSQQLDLGASEESADEDSD
 SPQGQTTDPSEKPKPAPGPHSSPPEEKGAFGDAPATEQPPLPPPAPHKPLDDVYSLFFANNWYFFLRL
 HQTLCSRLLLKIYRQAQKQLLEYRTEKEREKLLCEGRREKGSDPAMELRLKQPSEVELEEYPAFLDMVR
 SLLEGSIDPTQYEDTLREMFTIHAYVGFMDKLQNIARQLHHLVSDDVCLKVVELYLNKKGAAAGGN
 LSSRCVRAARETSYQWKAERCMADENCFKVMFLQRKGQVIMTIELLDTEEAQTEDPVEVQHLARYVEQY
 VGTGEGASSPTEGFLLPVFLQRNLKFRRRWQSEARALRGEARSSWKRLVGVESACDVDCRFKLSLTH
 KMFVIVNSEDYMYRRGTL CRAKQVQPLVLLRHHQHFEWHSRWLEDNVTVEASLVQDWLMGEEDMDV
 PCKTLCEVHVHGLPVTRYRVQYSRRPASP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001297597

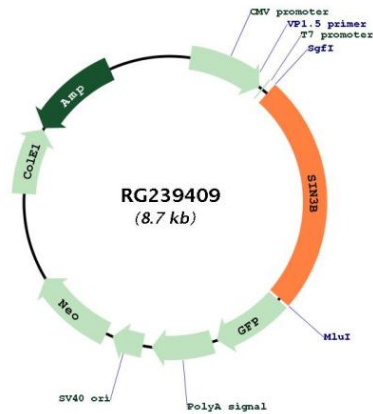
ORF Size: 2160 bp

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).
RefSeq:	<u>NM_001297597.1, NP_001284526.1</u>
RefSeq Size:	4159 bp
RefSeq ORF:	2163 bp
Locus ID:	23309
UniProt ID:	<u>O75182</u>
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]

Product images:



Circular map for RG239409