

Product datasheet for **SC301078**

SIN1 (MAPKAP1) (NM_001006617) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIN1 (MAPKAP1) (NM_001006617) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIN1
Synonyms:	JC310; MIP1; SIN1; SIN1b; SIN1g
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001006617 edited
TGCGGCTCGGGTAATAGGGCTGCTGCTCGGCCGGCCGGCGGCGAGCAGCAGGGGCA
TGAGGGCTAACCCGGGAAGCGGCAGCTGAGCGGGCCGGGAGGAGCGCCGGTCCCCGTGGA
TCCCGAGAGTGACAGAGCTCGGGGCGAGGGCCGGGAGGCGTGGGGGAGCCGGGCCCTCCCC
TCAGGAACGTGTCCCGGGGCCGACCCGGCCCGTAGTGTGGAAGCAGCTTCAGGTAGGTGA
GCTCGTGAACAATATGAAGAGGAGAAAAATAGCCTTTAAGGAAATTGGCCACAGAAAG
GATGGCCTTCTTGACAATCCAATATCATTCTAGCTCATATTCGACAGTCACATGTGAC
CAGTGATGACACGGGAATGTGTGAGATGGTTCTCATTGATCATGATGTTGACCTAGAGAA
GATTCATCCTCCTCAATGCCTGGAGACAGTGGGTGAGAAATTCAGGGAAGCAATGGTGA
GACTCAGGGCTATGTATATGCCAGTCAGTCGATATTACCTCAAGTTGGGACTTTGGTAT
TAGAAGACGCTCAAACACAGCTCAAAGATTAGAAGCACTCCGAAAAGAGAGACAAAACCA
GATCAAATGCAAAAATATTCAGTGGAAGAAAGAAATTCTAAGCAATCAGCCAGGAGTT
AAAGTCACTGTTTGAIAAAAAATCTCTCAAAGAGAAGCCTCCAATTTCTGGGAAGCAGTC
GATATTATCTGTACGCCCTAGAAGCAGTGCCTCTGCAGCTGAATAACCCTTTAACGAGTA
TTCCAAATTTGATGGCAAGGGTCATGTAGGTACAACAGCAACCAAGAAGATCGATGTCTA
CCTCCCTCTGCACTCGAGCCAGGACAGACTGCTGCCAATGACCGTGGTGACAATGCCAG
CGCCAGGGTGCAGGACCTGATCGGGCTCATCTGCTGGCAGTATACAAGCGAAGGACGGGA
GCCGAAGCTCAATGACAAATGTCAGTGCCTACTGCCTGCATATTGCTGAGGATGATGGGGA
GGTGGACACCGATTTCCCCCGCTGGATTCCAATGAGCCCATTCATAAGTTTGGCTTCAG
TACTTTGGCCCTGGTTGAAAAGTACTCATCTCCTGGTCTGACATCCAAGAGTCACTCTT
TGTTGCAATAAATGCTGCTCATGGATTCTCCCTTATTGAGGTGGACAACAAAAGTTAC
CATGAAGGAAATCTTACTGAAGGCAGTGAAGCGAAGAAAAGGATCCCAGAAAGTTTCAGG
CCCTCAGTACCGCTGGAGAAGCAGAGCGAGCCCAATGTCGCCGTTGACCTGGACAGCAC
TTTGGAGAGCCAGAGCGCATGGGAGTTCTGCCTGGTCCGCGAGAACAGTTCAAGGGCAGA
CGGGGTTTTGAGGAGGATTGCAAAATTGACATAGCCACAGTACAGGATATGCTTAGCAG
CCACCATTACAAGTCAATCAAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
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TGACCTTGCTGAAGAGAAAAGCCCCAGTCACGCAATTTAAACTCACGTATCTAAGCAA
TCAGGACTATAAACACCTCTACTTTGAATCGGACGCTGCTACCGTCAATGAAATTTGCT
CAAGGTTAACTACATCCTGGAATCGCGAGCTAGCACTGCCCGGGTGACTACTTTGCTCA
AAAACAAAGAAAAGTGAACAGACGTACGAGCTTCAAGTCCAGAAAGGAGAAGAAATCCGG
GCAGCAGTGACACTGGCCTCCAGCCTCAATCTGTTCCGTAGCTCAGAGCCTGCCTGCCAG
GGCCAAGTGCCCTAGAGCCACCCGGTGTCTGAAATCCTCGGGGGGAGGCCAGCCCTG
GCTCACTGGCACAGGGCAGGTGGGCTCTCGGGGAAGGTGTGCGGGGCCCCCTAGGAGGGA
GCGCTGGGGACATTGCCATGGGACGGAAGTCTGCTTGGCAGTGGCTTTGATAAGCGATGC
TTGGGGGTGAGACCACCCCTAGAGGAGCCACGTGCCGCCAGCCACCTTCAATGCCTGC
CACCTGCCCCGAGGATGTACAGAGCCGTGCCACACATTTCTTGAACCTTGATCAAATT
TCTTAAAGCAAAACAACAAAATGTACATTTCTGTTTTCTTTAATAAACAGGTGTACT
CTTTATCAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001006617 unedited
 NGGGTTTCGNAATATGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGTGCGGC
 TCGGGGTAAATAGGGCTGCTGCTCGGCCGGCCGGCGGCGAGCAGCAGGGGCATGAGGG
 CTAACCCGGGAAGCGGCAGCTGAGCGGGCCGGGAGGAGCAGCCGGTCCCCGTGGATCCCGA
 GAGTGCAGAGCTCGGGCAGGGCCGGGAGGCGTGGGGGAGCCGGGCCCTCCCCTCAGGA
 ACGTGTCCCGGGCCGACCCGGCCCGTAGTGTGGAAGCAGCTTCAGGTAGGTGAGCTCGT
 GAAACAATATGAAGAGGAGAAAAATAGCCTTTTAAGGAAATGGCCACAGAAAGGATGGC
 CTCTTTGGACAATCCAATCATTCTAGCTCATATTCGACAGTCACATGTGACCAAGTGA
 TGACACGGGAATGTGTGAGATGGTTCTCATTGATCATGATGTTGACCTAGAGAAGATTCA
 TCCTCCTTCAATGCCTGGAGACAGTGGGTGAGAAATTCAGGGAAGCAATGGTGGAGACTCA
 GGGCTATGTATATGCCAGTCAGTCGATATTACCTCAAGTTGGGACTTTGGTATTAGAAG
 ACGCTCAAACACAGCTCANAGATTAGAACGACTCCGAAAAGAGAGACAAAACCAGATCAA
 ATGCAAAAATATTCAGTGGAAAGAAAGAAATCTAAAGCATCAGCCAGNAGTTAAAGTC
 ACTGTTTGAATAAATCTCTCAAAGAGAAGCCTCCAATTTCTGGGAAGCAGTCGATATT
 ATCTGTACGCCTAGAACAGTGCCTCTGCAGCTGAATAACCCTTAACGAGTATTCCAAA
 TTGATGGCAAGGTCATGTAGGTACAACAGCACCCAGAAGACGATGTCTACCTCCCTCTGC
 ACTCGAGCCAGGAAGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001006617 unedited
 TTGGACCGCGCCGCATCTAAAGTCGGTTTTTTTTTTTTTTTTTTTTGAAAAATACACCTG
 TTTATTAAGAAAAACAGAAATGTACATTTTTTGTGTTGCTTAAAGAAATTTGATCAA
 GTTGCAAGGAAATGTGTGGGCACGGCTCTGTACATCCTCGGGCAGGGTGGCAGGCATTGA
 AAGTGGCTGGGGCGCACGTGGCTCCTCTAGGGGGTGGTCTGACCCCAAGCATCGCTTAT
 CAAAGCCACTGCCAAGCAGACTTCCGTCCCATGGCAATGTCCCCAGCGCTCCCTCCTAGG
 GGGCCCCCGACACCTTCCCGAGAGCCACCTGCCCTGTGCCAGTGGCCAGGGGCTGGC
 CTCCCCCGAGGACTTCAGGACACCGGGTGGGCTCTAGGGCACTTGGCCCTGGCAGGCAA
 GCTCTGAGCTACGGAACACATTGAGGCTGGAGGCCAGTGTCACTGCTGCCCGGATTTCTT
 CTCCTTCTGGAAGCTGAAGCTCGTACGTCTGTCCACTTTCCTTTGTTTTGAGCAAAGTC
 ATCAGCCCGGGCACTGCTTGCTTGGGATTCCAAGATGTATTTAACCTTTAACACATTCTC
 TTGTACGTTGCATCGCCGATTCAAACCTTAAGGGTCTTAGAGCAGACCGCCCAAAACAC
 CGACGTTCAATACTGCCTGACCGGGGCTTCTCTTTAATAGGGTCCCGGCACACTACAA
 GCTGTATTCAATTGCAAACGTATTCTGCTAACCCATACTACCCGCGTCTTTCCCAATACC
 ACAGGCATCTCTTCTCCTCCTCCTCAACCCCTCCTCACACTTCTTTCCAATATTAC
 CTTGCTCCGCCCTACTCAATTATCCCAACAACGACTTATCAATCCTCTTGCACCCTA
 TCAATCTTAACACACCAAAAACCTCCCAAAATCCCCCTCCTTACCACATCACTTCC
 CTCATTACCATAATT

Restriction Sites:

NotI-NotI

ACCN:

NM_001006617

Insert Size:

2300 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).

OTI Annotation:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_001006617.1](#), [NP_001006618.1](#)

RefSeq Size: 3395 bp

RefSeq ORF: 1569 bp

Locus ID: 79109

UniProt ID: [Q9BPZ7](#)

Cytogenetics: 9q33.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that is highly similar to the yeast SIN1 protein, a stress-activated protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been described. Alternate polyadenylation sites as well as alternate 3' UTRs have been identified for transcripts of this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1), also known as Sin1 and Mip1b, represents the longest transcript and encodes the longest isoform (1).