

Product datasheet for **SC128200**

SIN1 (MAPKAP1) (NM_024117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIN1 (MAPKAP1) (NM_024117) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIN1
Synonyms:	JC310; MIP1; SIN1; SIN1b; SIN1g
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128200 sequence for NM_024117 edited (data generated by NextGen Sequencing)

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ATGGCCTTCTGGACAATCCAATCATTCTAGCTCATATTCGACAGTCACATGTGACC
AGTGATGACACGGGAATGTGTGAGATGGTTCTCATTGATCATGATGTTGACCTAGAGAAG
ATTCATCTCCTCAATGCCTGGAGACAGTGGGTGAGAAATTCAGGAAGCAATGGTGAG
ACTCAGGGCTATGTATATGCCAGTCAGTCGATATTACCTCAAGTTGGGACTTTGGTATT
AGAAGACGCTCAAACACAGCTCAAAGATTAGAACGACTCCGAAAAGAGAGACAAAACAG
ATCAAATGCAAAAATATTCAGTGGAAAGAAAGAAATTCTAAGCAATCAGCCCAGGAGTTA
AAGTCACTGTTTTGAAAAAATCTCTCAAAGAGAAGCCTCCAATTTCTGGGAAGCAGTCG
ATATTATCTGTACGCCTAGAACAGTGCCCTCTGCAGCTGAATAACCCTTTTAACGAGTAT
TCCAAATTTGATGGCAAGGGTCACTGTAGGTACAACAGCAACCAAGAAGATCGATGTCTAC
CTCCCTCTGCACTCGAGCCAGGACAGACTGCTGCCAATGACCGTGGTGACAATGGCCAGC
GCCAGGGTGCAGGACCTGATCGGGCTCATCTGCTGGCAGTATACAAGCGAAGGACGGGAG
CCGAAGCTCAATGACAATGTCAGTGCCTACTGCCTGCATATTGCTGAGGATGATGGGGAG
GTGGACACCGATTTCCCCCGCTGGATTCCAATGAGCCATTCAAGTTTGGCTTCAGT
ACTTTGGCCCTGGTTGAAAAGTACTCATCTCTGGTCTGACATCCAAGAGTCACTCTTT
GTTCAATAAATGCTGCTCATGGATTCTCCCTATTCAAGGTGGACAACACAAAGGTTACC
ATGAAGGAAATCTTACTGAAGGCAGTGAAGCGAAGAAAAGGATCCAGAAAAGTTTCAGGT
TCAAGGGCAGACGGGGTTTTTGAGGAGGATTCGCAAAATGACATAGCCACAGTACAGGAT
ATGCTTAGCAGCCACCATTACAAGTCATTCAAAGTCAGCATGATCCACAGACTGCGATTC
ACAACCGACGTACAGTAGGTATCTCTGGAGACAAAGTAGAGATAGACCCGTGTTACGAAT
CAGAAAAGCCAGCCTAAGTTTTGGATTAAGCAGAAAACCCATCTCAATCGATTCCGACCTG
CTCTGTGCCTGTGACCTTGTGAAAGAGAAAAGCCCAAGTACGCAATATTTAAACTCAG
TATCTAAGCAATCAGACTATAAACACCTCTACTTTGAATCGGACGCTGCTACCGTCAAT
GAAATTGTGCTCAAGGTTAACTACATCCTGGAATCGCGAGCTAGCACTGCCCGGGCTGAC
TACTTTGCTCAAAAACAAAGAAAAGTGAACAGACGTACGAGCTTCAGCTTCCAGAAGGAG
AAGAAATCCGGGCAGCAGTGA
    
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Clone variation with respect to NM_024117.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_024117 unedited
TATAGGCCGGCCGCAATTCGCACGAGGCTCGGGTAATAGGGCTGCTGCTCGGCCGGCC
GGCGGGCGGCGAGCAGCAGGGGCATGAGGGCTAACCCGGGAAGCGGCAGCTGAGCGGGCCG
GGAGGAGCGCCGGTCCCGTGGATCCCAGAGTGCAGAGCTCGGGGCAGGGGCCGGGAGG
CGTGGGGGAGCCGGCCCTCCCTCAGGAACGTGTCCCGGGGCCACCCGGCCCGTAGTG
TGGAAGCAGCTTCAGGTAGGTGAGCTCGTGAACAATATGAAGAGGAGAAAATAGCCTTT
TAAGGAAATGGCCACAGAAAGGATGGCCTTCTTGACAATCCAATCATTCTAGCT
CATATTGACAGTCACATGTGACCAGTGTGACACGGGAATGTGTGAGATGGTTCTCATT
GATCATGATGTTGACCTAGAGAAGATTCACTCTCTCAATGCCTGGAGACAGTGGGTCA
GAAATTCAGGAAGCAATGGTGAGACTCAGGGCTATGTATATGCCAGTCAGTCGATATT
ACCTCAAGTTGGGACTTTGGTATTAGAAGACGCTCAAACACAGCTCAAAGATTAGAACGA
CTCCGAAAAGAGAGACAAAACAGATCAAATGCAAAAATATTCAGTGGGAAAAGAAAAGAT
ATTCTAAGCAATCAGCCAGGAGTTAAAGTCACTGTTTTGAAAAAATCTCTCANAGAG
AAGCCTCAATTTCTGGGGGAAGCAGTCGATATTATTCTGTACGCCTNAGAACAGTGCC
TCTGCAGCTGAATAACCTTTTTACGAGTTTCCAATTTGATGGCAAGGGTNTTTGAGTCT
CACAGCACCAGAGATAAA
    
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3' Read Nucleotide Sequence:	>Forward primer walk for NM_024117 unedited NGATCCACGCCGGGTGCAGNACTGTACGGCTCTCTGTGGCATATACAAGCGAAGGACGGG AGCCGAAGCTCAATGACAATGTCAGTGCCTACTGCCTGCATATTGCTGAGGATGATGGGG AGGTGGACACCGATTTCCCCCGCTGGATTCCAATGAGCCATTACATAAGTTTGGCTTCA GTACTTTGGCCCTGGTTGAAAAGTACTCATCTCCTGGTCTGACATCCAAGAGTCACTCT TTGTTCGAATAAATGCTGCTCATGGATTCTCCCTTATTCAGGTGGACAACACAAAGTTTCA CCATGAAGGAAATCTTACTGAAGGCAGTGAAGCGAAGAAAAGGATCCCAGAAAAGTTTCAG GTTCAAGGGCAGACGGGGTTTTTGAGGAGGATTGCAAATTGACATAGCCACAGTACAGG ATATGCTTAGCAGCCACCATTACAAGTCATTCAAAGTCAGCATGATCCACAGACTGCGAT TCACAACCGACGTACAGCTAGGTATCTCTGGAGACAAAGTAGAGATAGACCCTGTTACGA ATCAGAAAAGCCAGCACTAAGTTTTGGATTAAGCAGAAAACCCATCTCAATCGATTCCGACC TGCTCTGTGCCTGTGACCTTGCTGAAGAGAAAAGCCCCAGTCACGCAATATTTAAACTCA CGTATCTAAGCAATCACGACTATAAACACCTCTACTTTGAATCGGACGCTGCTACCGTCA ATGAAATTGTGCTCAAGGTTAACTACATCCTGGAATCGCGAGCTAGCACTGCCCGGGCT GACTACTTTGCTCAAAAACAAAGAAAACGAACAGACGTACGAGCTTTAGCTTCCAGAAG AAGAGAAATCCGGCCAGCAGTGACTGGCCTTCAACCTCAATCTGGTTCCTAG
Restriction Sites:	NotI-NotI
ACCN:	NM_024117
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_024117.3 , NP_077022.1
RefSeq Size:	3287 bp
RefSeq ORF:	1461 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 (2), also known as Sin1b and Mip1a, lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting protein (isoform 2), also known as the beta isoform, is shorter, compared to isoform 1.