

Product datasheet for **SC320672**

SATB1 (NM_002971) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SATB1 (NM_002971) Human Untagged Clone
Tag:	Tag Free
Symbol:	SATB1
Synonyms:	DEFDA; KTZSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_002971.2
 AGGCAACTGGTAACCACTCATTGGGGATGTTTCTGCCTTGCTAGCAGTGCCAGAGAGA
 ACTTCATCATTGTACCTCATCAAAGACTACTTTTTAGACATCTCCTGTAGGGCTAGAT
 TCAGAGAGCAGCTTCTGATATTTGGAGGGTGATCTTTAGACAGTGACTGAGTATGGATCA
 TTTGAACGAGGCAACTCAGGGGAAAGAATTCCAGAAATGTCTAACAAATGTGAGTGATCC
 GAAGGGTCCACCAGCCAAGATTGCCCGCTGGAGCAGAACGGGAGCCCGCTAGGAAGAGG
 AAGGCTTGGGAGTACAGGTGCAAAAATGCAGGGAGTGCCTTTAAAAACACTCGGGCCATCT
 GATGAAAACCAACCTTAGGAAAGGAACCATGCTGCCAGTTTTCTGTGTGGTGGAACATTA
 TGA AACGCCATTGAATATGATTGCAAGGAGGAGCATGCAGAATTTGTGCTGGTGAGAAA
 GGATATGCTTTTCAACCAGCTGATCGAAATGGCATTGCTGTCTCTAGGTTATTCACATAG
 CTCTGCTGCCAGGCCAAAGGGCTAATCCAGGTTGAAAGTGAAATCCAGTTCCTACTGTC
 TTACGTGACAGATGCCCTGATGCTACAGTAGCAGATATGCTTCAAGATGTGTATCATGT
 GGTACATTGAAAATTCAGTTACACAGTTGCCCAAACACTAGAAGACTTGCTCCCGAACA
 ATGGTCGCACACCACAGTGAGGAATGCTCTGAAGGACTTACTGAAAGATATGAATCAGAG
 TTCATTGGCCAAGGAGTGCCCTTTTACAGAGTATGATTTCTTCCATTGTGAACAGTAC
 TTAATATGCAAAATGTCTCAGCAGCAAAATGTCAAGAATTTGGAAGGTGGTACAAACATTT
 CAAGAAGACAAAAGATATGATGGTTGAAATGGATAGTCTTTCTGAGCTATCCCAGCAAGG
 CGCCAATCATGTCAATTTTGGCCAGCAACCAGTTCAGGGAACACAGCCGAGCAGCCTCC
 ATCCCCTGCGCAGCTCTCCCATGGCAGCCAGCCCTCTGTCCGGACACCTCTTCAAACCT
 GCACCCTGGGCTCGTATCAACACCTATCAGTCTCAATTTGGTCAACCAGCAGCTGGTGAT
 GGCTCAGCTGTGAACCAGCAGTATGCAGTGAATAGACTTTTAGCCAGCAGTCCTTAAA
 CCAACAATACTTGAACCACCTCCCTGTCAGTAGATCTATGAATAAGCCTTTGGAGCA
 ACAGGTTTCGACCAACACAGAGGTGCTTCCGAAATCTACCAGTGGGTACGCGATGAAT
 GAAACGAGCAGGAATCTCCAGGCGGTATTTGCAGTGTGGCTTTTAAACAGAACTCAGGG
 CTTGCTTTTCAAGAAATCCTCCGAAAGGAAGGACCCCAAGACTGCATCCCAGTCTTTGCT
 GGTAAACCTTCGGGCTATGCAGAATTTCTTGCAGTTACCGGAAGCTGAAAGAGACCGAAT
 ATACCAGGACGAAAGGAAAGGAGCTTGAATGCTGCTCGGCCATGGGTCTGCCCTCC
 CATCAGCACACCACCCAGCCGCTCCTCCAGGTGAAAACAGCTACTATTGCCACTGAAAG
 GAATGGGAAACCAGAGAACAATACCATGAACATTAATGCTTCCATTTATGATGAGATTCA
 GCAGGAAATGAAGCGTGCTAAAGTGTCTCAAGCACTGTTTGCAAAGTTGCAGCAACCAA
 AAGCCAGGGATGGTTGTGCGAGCTGTTACGCTGGAAGAAGATCCTTCTCCAGAAAACAG
 AACCTGTGGGAGAACCTCTCCATGATCCGAAGTTTCTCAGTCTTCTCAGCCAGAACG
 TGATGCCATTTATGAACAGGAGAGCAACGCGGTGCATCACCATGGCGACAGGCCGCCCA
 CATTATCCATGTTCCAGCAGAGCAGATTAGCAACAGCAGCAGCAACAGCAACAGCAGCA
 GCAGCAGCAGCAGGCACCCGCCCTCCACAGCCACAGCAGCAGCCACAGCAGGCCCTCG
 GCTCCCCCACGGCAACCCACGGTGGCCTCTCCAGCAGAGTCAAGTGAAGGAAAACCGACA
 GAAGACCCGGCCACGAACAAAAATTTAGTGGAAAGCCTTGGGAATCCTCCAGAGTTTCA
 ACAAGACGTGGCCTGTACCTGACGAAGAGGCCATCCAGACTGTGTCTGCCAGCTCGA
 CCTTCCCAAGTACACCATCATCAAGTTCTTTTCAAGAACAGCGGTACTATCTCAAGCACCA
 CGGCAAACTGAAGGACAATTCGGTTTAGAGGTGATGTGGCAGAATATAAAGAAGAGGA
 GCTGCTGAAGGATTTGGAAGAGAGTGTCCAAGATAAAAAATAAACACCTTTTTTTCAGT
 GAAACTAGAAGAAGAGCTGTGAGTGAAGGAAACACAGACATTAATACTGATTTGAAAGA
 CTGAGATAAAAGTATTTGTTTTCGTTCAACAGTGCCACTGGTATTTACTAACAAAATGAAA
 AGTCCACCTTGTCTTCTCAGAAAACCTTTGTTGTTTATTGTTTGGCCAATGAATCTTC
 AAAAATGACAAAACAGAAAAGTTGGAAAAGGATAATACAGACTGCACTAAATGTTTTTC
 CTCTGTTTTACAACTGCTTGGCAGCCCCAGGTGAAGCATCAAGGATTGTTTGGTATTAA
 AATTTGTGTTTACGGGATGCACCAAAGTGTGTACCCCGTAAGCATGAAACCAAGTGT
 TTTTGTGTTTTTTAGTTCTTATTCCGGAGCCTCAAACAAGCATTATACCTTCTGTGATTAT
 GATTTCTCTCCTATAATTTTCTGTAGCACTCCACACTGATCTTTGAAAACCTGCCCT
 TTATTTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:	NM_002971
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_002971.2</u> , <u>NP_002962.1</u>
RefSeq Size:	3782 bp
RefSeq ORF:	2292 bp
Locus ID:	6304
UniProt ID:	<u>Q01826</u>
Cytogenetics:	3p24.3
Domains:	homeobox, CUT
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>This gene encodes a matrix protein which binds nuclear matrix and scaffold-associating DNAs through a unique nuclear architecture. The protein recruits chromatin-remodeling factors in order to regulate chromatin structure and gene expression. [provided by RefSeq, Apr 2016]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR and lacks an alternate exon in the 3' coding region, compared to variant 3. Isoform 1 has a shorter C-terminus, compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>