

Product datasheet for **SC118309**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118309 sequence for NM_002971 edited (data generated by NextGen Sequencing)

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ATGGATCATTTGAACGAGGCAACTCAGGGGAAAGAACATTCAGAAATGTCTAACAAATGTG
AGTGATCCGAAGGGTCCACCAGCCAAGATTGCCCGCCTGGAGCAGAACGGGAGCCCGCTA
GGAAGAGGAAGGCTTGGGAGTACAGGTGCAAAAATGCAGGGAGTGCCTTTAAACACTCG
GGCCATCTGATGAAAACCAACCTTAGGAAAGGAACCATGCTGCCAGTTTTCTGTGTGGTG
GAACATTATGAAAACGCCATTGAATATGATTGCAAGGAGGAGCATGCAGAAATTTGTGCTG
GTGAGAAAAGGATATGCTTTTCAACCAGCTGATCGAAATGGCATTGCTGTCTCTAGGTTAT
TCACATAGCTCTGCTGCCAGGCCAAAGGGCTAATCCAGGTTGGAAGTGAATCCAGTT
CCTACTGTCTTACGTGACAGATGCCCTGATGCTACAGTAGCAGATATGCTTCAAGATGTG
TATCATGTGGTCACATTGAAAATTCAGTTACACAGTTGCCCAAACACTAGAAGACTTGCTT
CCCGAACAAATGGTCGCACACCACAGTGAGGAATGCTCTGAAGGACTTACTGAAAGATATG
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TCTTTGCTGGTAAACCTTCGGGCTATGCAGAAATTTCTTGCAGTTACCGGAAGCTGAAAGA
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GAAAACAGAACCCTGTGGGAGAACCCTCCATGATCCGAAGTTTCTCAGTCTTCTCAG
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TTGAAAGACTGA
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Clone variation with respect to NM_002971.4
1386 c=>a

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002971 unedited</p> <pre> NTTTAAATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGCGCCTTCAGG TCTGCTGCTTTTTTATTTTTTTTTTTTAAATTAAGGACATAGAAAACATCAGT CTTGAACCTTCTTCAAGAACCCGGGCTGCAAAGGAAATCTCCTTTGTTTTGTTATTTA TGTGCTGTCAAGTTTTGAAGTGGTGAGTTTCAGGTGATCTTTAGACAGTGACTGAGTATG GATCATTTGAACGAGGCAACTCAGGGGAAAGAACATTAGAAAATGTCTAACAAATGTGAGT GATCCGAAGGGTCCACCAGCCAAGATTGCCCGCCTGGAGCAGAACGGGAGCCCGTAGGA AGAGGAAGGCTTGGGAGTACAGGTGCAAAAATGCAGGGAGTGCCTTTAAACACTCGGGC CATCTGATGAAAACCAACCTTAGGAAAGGAACCATGCTGCCAGTTTTCTGTGTGGTGAA CATTATGAAAACGCCATTGAATATGATTGCAAGGAGGAGCATGCAGAAATTTGTGCTGGT AGAAAAGGATAGCTTTTCAACCAGCTGATCGAAATGGCATTGCTGTCTAGGTTATTCA CATAGCTCTGCTGCCAGGCCAAAGGGCTAATCCAGGTTGAAAGTGAATCCAGTTCCA CTGTCTTACGTGACAGATGCCCTGATGCTACAGTAGCAGATATGCTTCAAGATGTGAT CATTGTGGTACATTGAAAATTCAGTACACAGTTGCCCAACTAGAAAGACTTGCCTNCC GACCATGGTCCCACACCACATGAGGAATGCTTGAAGGGACTTACTGAAGAATGNTNCAA GTTTCATGCCAAGGAATGGCCCCCTACAAATATGATTNCTTATTGGGGAACGGACTACT TT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002971 unedited</p> <pre> GGTATGGCAACTCCAGGGCCAGNANAGGCACTGGGGAGGGGTCACAGGGATGCCACCCG GGATCTGTTCCAGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTT TTTCA AAAATCAGGGGGAGGGCTCCAAAAATAATTATGGGAGAGGAAATCATAATCCCAAAAGG TTTAATGCTTGTTTGGAGCTCCGGAATAAAAACTAAAAAAAACAAAAAACTGGTTT CATGCTTACGGGGTACACACTTTGGGGCATCCCGGGAACCCAAATTTTAAACCAAAACA TCCTTGATGCTTACCTGGGGCTGCCAAGCAGTTTGTAACAAGGAAACATTTAGGG CAGTCTGTATTACCTTTTCAACTTTTCTGTTTGGGCAAGTTTTTGAATTCATTGGC CAAACAATGAACAACAAGGTTTTCTGAAAAAAAACAAGGGGACTTTTCATTTTGTAA AAAATACCAGGGGCACTGTTAAACAACAATACTTTTATCTCAGTCTTTCAAAACAAT ATTAAGGGCTGTGTTTCCCTTCCACTGACAGCTCTCTTTTAGTTTCACTGAAAAAGGGTG TTAGTATTTTTATCTTGGACACTCTTCCAAATCCTTAACAGCTCCTCTTCTTTATATT CTGCCACATTGACCTCTAACCGGAATTGCCCTTCAATTTGCCCGGGGGCTTGAGAAATA CCCCTTGGTTCTGAAAAACTGATGATGGTGACTTGGGGAAGGTCAACTGGCAAAACAAA TTGGAATGCCCTTCTCAGGTACAGGCC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002971
Insert Size:	2820 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:

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_002971.2](#), [NP_002962.1](#)

RefSeq Size: 3782 bp

RefSeq ORF: 2292 bp

Locus ID: 6304

UniProt ID: [Q01826](#)

Cytogenetics: 3p24.3

Domains: homeobox, CUT

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: 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]

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.