

## Product datasheet for **MC200989**

### Satb1 (NM\_009122) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Satb1 (NM_009122) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Satb1
Synonyms:	2610306G12Rik; AW413156
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC011132 sequence for NM\_009122  
 GCGGCGGGCGGCGAGGGTGC GCGGCGGGGGCGGTGCAGTCTGGCAGGTGATCTGTAAGACAGTGACTGA  
 GTATGGATCATTGAACGAGGCAACTCAGGGGAAAGAACATTCAGAAATGTCTAACAATGTGAGTGATCC  
 GAAGGGTCCACCCGCAAGATTGCCCGCTGGAGCAGAACGGGAGCCCTTAGGAAGAGGAAGGCTTGGG  
 AGCACAGGTGAAAGATGCAGGGAGTGCCTTTAAACACTCGGCCATCTCATGAAAACCAACCTTAGGA  
 AAGGAACCATGTTACCAGTTTTCTGCGTGGTGAACATTATGAAAACGCCATTGAGTATGATTGCAAGGA  
 GGAGCACGCGGAATTTGTATTGGTGAGAAAGGATATGCTTTTCAACCAGCTGATAGAGATGGCGTTCCTG  
 TCTCTAGGCTATTCACACAGCTCTGCTGCCAAGCCAAAGGGCTCATCCAGGTTGGGAAGTGAATCCAG  
 TTCCACTGTCGTATGTGACAGATGCCCTGATGCCACGGTGGCAGACATGCTTCAAGATGTGTATCATGT  
 GGTCAACCTCAAATTCAGTTACACAGTTGCCCTAAACTAGAAGACTTGCCCTCTGAACAATGGTCGCAC  
 ACCACAGTAAGGAATGCTCTGAAGGACTTACTGAAAGATATGAACCAGAGTTCGTTGGCCAAAGGAGTGCC  
 CCCTTTCACAGAGCATGATCTCCTCATTGTGAACAGCACGTAATGCAAAATGTCTCAGCAGCAAAATG  
 TCAAGAATTTGGAAGGTGTTACAAACATTTCAAGAAGACAAGGATATGATGGTTGAGATGGATAGTCTG  
 TCTGAATATCCAGCAAGGTGCCAACCACGTCAATTTTGGCCAGCAGCCTGTCCAGGAAACACAGCTG  
 AGCAGCCTCCATCCCCTGCGCAGCTCTCTACGGCAGTCAGCCCTGTGTCGGACCCCTCTCCGAACCT  
 GCACCCTGGGCTTGTGTCAACACCGATCAGTCCCTCAGCTGGTCAACCAACAGCTGGTGATGGCTCAGTTG  
 CTGAACCAGCAGTATGCAGTGAACAGACTCTTAGCCCAGCAGTCCTTAAACCAACAGTACTTGAACCACC  
 CTCCCCCTGTGAGTGTATGAACAAGCCTTTGGAGCAGCAAGTTCCACGAACACGGAGGTCTCTTC  
 TGAAATCTACCAGTGGGTGCGGGATGAACTGAAACGAGCCGGAATCTCACAGGCAGTATTTGCACGCGTG  
 GCTTTTAAACGAACTCAGGGATTGCTTTCTGAAATCCTCCGAAAGGAAGAGGACCCCAAGACTGCATCCC  
 AGTCTCTGCTGGTAAACCTTCGGGCTATGCAGAATTTCTTACAGTTGCCGGAAGCCGAAAGAGACCCGGAT  
 ATACCAGGATGAGAGGAAAGGAGCTTGAACGCAGCCTCAGCCATGGGTCTGCCCGCTGCTGAGCACA  
 CCACCCAGCCGCCCTCCCAGGTGAAAACAGTACCCTTGCACAGTGAAGAAAATGGGAAGCCAGAGAACAA  
 ATACTATGAACATTAATGCCTCCATTTATGACGAGATTACAGCAGGAAATGAAGCGTGCTAAAGTGTCCCA  
 AGCACTGTTTGCAAAGGTTGCCGCCACAAAAAGCCAGGGATGGCTGTGTGAGCTGTTGCGCTGGAAGAA  
 GATCCTTCTCCAGAAAACAGGACCCTGTGGGAGAACCTGTGATGATCCGAAGATTCTCAGTCTGCCCC  
 AGCCTGAGCGGATGCCATCTATGAGCAGGAGAGCAATGCTGTGCATCACCATGGCGACAGACCTCCCCA  
 CATCATCCAGTTCAGCAGAACAGATTACAGCAGCAGCAACAGCAGCAGCAACAGCAGCAGCAGCAG  
 CAGCCACCGCCGACCCGCCAGCCACAGCCACAGCCACAGCCAGGCCCCAGACTCCCCCACGGCAGC  
 CCACCGTGGCCTCTCCGCGGAGTCCGATGAGGAAAACCGGCAGAAAGACCAGGCCACGAACCAAAATTT  
 CGTGGAAGCCCTGGGGATCCTTACAGATTTTATCCAAGATGTGGGCTGTACCCAGATGAAGAGGCTATC  
 CAGACTCTGTCTGCACAGCTGGACCTCCCGAAGTACACCATCATCAAGTCTTTTACAAGCAGCGTACT  
 ACCTTAAGCACCATGGCAAGCTGAAGGACAACCTCCGGCTTGGAGGTGGATGTGGCCGAGTACAAAGATGA  
 GGAGTTGCTTAAGGATTTGGAAGAGAGCGTCCAGGATAAAAACGCCAACACCCCTTTTCTCAGTGAACCTA  
 GAGGAAGAGCTGTGCGTGAAGGGAGCAGACAGCTTAAATGCCACTTGAAGACTGAGAGAACAGTATTC  
 TTTTACAGCCACACCACCGGATTTTCTAACAACATGAGAAGTCCACCTTGTGTTCACTCAGACAAACCTT  
 CATTGTTTATTGTTTGGCCAATGAATCTTCGAAAACCTGCACAAACAGGAAGGAAGTTGGAAGGACAGGA  
 CAGCCAGCACTCAAGTTTTACTGTGTTTTACAAAACCTGTTGGCAGCCCGGGTGAAGCGTCAAGGACT  
 GTTTGGTAGAATTTGTGTTCAAGGGCTGCACCCAGGTGTTGACCTGTGATGATGATGATGATGATGATG  
 TTTTCTTTTATTATTATTATTCTGGAGCCTCAAATAAGCATTATAACTTCTGTGGTTATGATTGCCTT  
 TTCTTTAGTAATCTTCTGTAACCCACCACACTAGTCTTTGAAAACCTGGCCCTTATTTTAAAGAGAAAA AAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_009122  
**Insert Size:** 2295 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC011132</a></u> , <u><a href="#">AAH11132</a></u>
<b>RefSeq Size:</b>	2813 bp
<b>RefSeq ORF:</b>	2295 bp
<b>Locus ID:</b>	20230
<b>UniProt ID:</b>	<u><a href="#">Q60611</a></u>
<b>Cytogenetics:</b>	17 C
<b>Gene Summary:</b>	<p>Required for the switching of fetal globin species, and beta- and gamma-globin genes regulation during erythroid differentiation. Plays a role in chromatin organization and nuclear architecture during apoptosis (By similarity). Crucial silencing factor contributing to the initiation of X inactivation mediated by Xist RNA that occurs during embryogenesis and in lymphoma. Binds to DNA at special AT-rich sequences, the consensus SATB1-binding sequence (CSBS), at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-stranded DNA. Transcriptional repressor controlling nuclear and viral gene expression in a phosphorylated and acetylated status-dependent manner, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin remodeling enzymes and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. Modulates genes that are essential in the maturation of the immune T-cell CD8SP from thymocytes.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1-4 encode the same protein.</p>