

Product datasheet for **MC221194**

Satb2 (NM_139146) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Satb2 (NM_139146) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Satb2
Synonyms:	mKIAA1034
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC221194 representing NM_139146
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCGCGGAGCGAGAGCCCGTGTCTTCGGGACAGCCCCGACCGAAGAAGCGGCAGCCCCGACGTCA
 AGGGGCCCTCCCCGGTGAAGGTGGCCCGCTGGAGCAGAACGGCAGCCCCATGGGAGCCCCGGGAGGCC
 CAACGGCGCCGTGGCCAAGGCCGTGGGAGTTTGTGATTCCAGTTTTCTGTGTGGTGGAGCAGTTGGAT
 GGCTCTCTTGAATACGACAACCGAGAAGAGCACGCTGAGTTCTGTTGGTGCAGAAAGATGTGCTTTTTA
 GCCAGCTGGTGGAGACCGCGCTCCTGGCCCTGGGGTATCCCACAGCTCTGCAGCGCAGGCCCAAGGAAT
 AATCAAGCTAGGGAGGTGGAACCCCTCCCTCAGTTATGTGACAGACGCCCTGATGCGACTGTGGCC
 GACATGCTGCAAGATGTCTATCACGTTGTGACGCTGAAGATCCAATTACAAAGTTGTTCAAAGTTGGAAG
 ACTTGCCCTGCGGAGCAATGGAACCACGCCACCGTCCGCAATGCCTAAAGGAAGTCTCAAAGAAATGAA
 CCAGAGCACATTAGCCAAAGAATGCCCTCTCTCCAGAGTATGATTTCCATTGTAATAGCACATAC
 TATGCCAATGTGTGAGCAACCAAGTCCAGGAGTTGGGAGATGGTACAAAAAGTATAAGAAGATAAAAG
 TGGAAAGAGTGGAGCGAGAGAACCTTTCAGACTATTGTGTTCTGGGCCAGCGCCCAATGCATTTACCAAA
 TATGAACCAGCTGGCATCCCTGGGCAAAACCAACGAACAGTCTCCTCATAGCCAAATCCACCACAGTACT
 CCAATCCGAAACCAAGTCCCGCACTCCAGCCCATCATGAGCCCTGGTCTTCTCTCACCGCAGCTCAGTC
 CTCAGCTTGTGAGGAGCAAAATAGCCATGGCCCATCTGATAAACCAACAGATAGCCGTTAGCCGACTCCT
 GGCTCACCAGCATCCTCAAGCCATCAACCAGCAGTTCTTGAACCAACCCACCCATTCCAGAGCAGTTAAG
 CCAGAGCCAACAACTCCTCTGTGGAAGTCTCTCTGATATCTACCAGCAAGTTAGAGATGAGTTGAAGA
 GGGCTAGTGTCTCAAGCTGTCTTTGCAAGAGTGGCATTCAACCGCACACAGGGATTATTGTGAGAGAT
 ACTGCGTAAGGAAGAAGATCCCAGGACTGCGTCTCAGTCTCTTCTAGTAAACCTGAGGGCCATGCAGAAC
 TTCTCAACCTGCCTGAAGTGGAGCGTGTGCGATTTACCAGGATGAGCGAGAGAGGAGCATGAACCCCA
 ATGTGAGCATGGTCTCCTCTGCCTCTAGCAGTCCAGCTCCTCCCGAACCCACAGGCCAAAACCTCGAC
 ACCGACAACAGACCTCCCTATTAAGGTGGACGGCGCAACGTCAACATCACAGCTGCCATTTATGACGAG
 ATCCAACAGGAGATGAAAAGAGCCAAGGTGTCTCAAGCCCTGTTTGCCAAAGTGGCTGCAAAACAAAAGTC
 AGGGCTGGCTTTGCGAAGTGTCTGTTGGAAGGAGAACCCAGCCAGAAAACCGCACCCCTTTGGGAGAA
 TCTCTGCACCATCCGCCGTTTCTGAATCTTCCCAACATGAGCGGGATGTGATCTATGAGGAAGAATCT
 CGACATACCACAGTGAACGCATGCAGCATGTGGTCCAGTCCACCTGAGCCCGTGCAGGTCCTTCATC
 GACAGCAGTCCCAGCCAACTAAGGAGAGCTCCCTCCCAGAGAAGAAGCACCCCCACCGCTCCTCCAAC
 AGAAGACAGCTGTGCCAAAAGCCTCGGTCTCGCACAAGATCTTTTGGAAGCCCTGGGCATCCTTCAA
 AGCTTCATCCATGATGTAGGCCTCTATCCCGACCAGGAAGCCATCCACACTCTCCGCCAGCTGGATC
 TCCCCAACACACCATCATCAAGTTCTTCCAGAACAGAGGTACCACGTGAAGCACCATGGCAAGCTGAA
 GGAGCACCTGGGCTCCGCCGTGGACGTGGCAGAGTATAAGGACGAGGAGCTGCTGACCGAGTCCGAGGAG
 AATGACAGTGAGGAAGGCTCGGAGGAGATGTACAAGGTGGAGGCCGAGGAAGAGAATGCCGACAAGAGCA
 AGGCTGCACCGGCCGAAACCGACCAGAGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_139146

Insert Size:

2202 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
Components:	<p>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).</p>
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_139146.2 , NP_631885.1
RefSeq Size:	5299 bp
RefSeq ORF:	2202 bp
Locus ID:	212712
UniProt ID:	Q8VI24
Cytogenetics:	1 C1.3
Gene Summary:	<p>Binds to DNA, at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-stranded DNA. Transcription factor controlling nuclear gene expression, 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. Required for the initiation of the upper-layer neurons (UL1) specific genetic program and for the inactivation of deep-layer neurons (DL) and UL2 specific genes, probably by modulating Bcl11b expression. Repressor of Ctip2 and regulatory determinant of corticocortical connections in the developing cerebral cortex. May play an important role in palate formation. Acts as a molecular node in a transcriptional network regulating skeletal development and osteoblast differentiation.[UniProtKB/Swiss-Prot Function]</p>