

Product datasheet for **RR210411**

Satb2 (NM_001109306) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Satb2 (NM_001109306) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Satb2
Synonyms:	RGD1562369
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210411 representing NM_001109306
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCGCGGGAGCGAGAGCCCGTGTCTTCGGGACAGCCCCGACCGAAGGAGCGGCAGCCCCGACGTCA
 AGGGGCCTCCCCGGTGAAGGTGGCCCGCTGGAGCAGAACGGCAGCCCCATGGGAGCCCCGGGAGGCC
 CAACGGCGCCGTGGCCAAGGCCGTGGGAGTCTGATGATTCCGGTCTTCTGTGTGGTGGAGCAGTTGGAT
 GGCTCTCTTGTAGTACGACAACAGAGAAGAGCATGCTGAGTTCTGTTGGTGCAGAAAGATGTGCTTTTAA
 GCCAGCTGGTGGAGACGGCGCTCCTGGCCCTGGGCTATCCACAGCTCTGCAGCTCAGGCCAAGGAAT
 AATCAAGCTGGGAGGTGGAACCCTCTCCCTCTCAGTTATGTGACAGACGCCCTGATGCCACCGTGGCC
 GACATGCTGCAAGATGTCTATCACGTTGTGACGCTGAAGATCCAATTACAAAGTTGTTCAAAGTTGGAAG
 ACTTGCCCTGCAGACAAATGGAACCACGCCACCGTCCGCAATGCCTAAAGGAGCTGCTCAAAGAAATGAA
 CCAGAGCACATTAGCCAAAGAATGCCCTCTCTCCAGAGTATGATTTCCATTGTAATAGCACATAC
 TATGCCAATGTGTGAGCAACCAAGTCCAGGAGTTGGGAGATGGTACAAAAAGTATAAGAAGATAAAGG
 TGGAAAGAGTGGAGCGAGAGAACCCTTCAGACTATTGTGTTCTGGGCCAGCGCCCAATGCATTTACCAAA
 TATGAACCAGCTGGCATCCCTGGGAAAAACCAACGAACAGTCTCCTCATAGCCAAATCCACCACAGTACT
 CCAATCCGGAACCAAGTCCCGCACTGCAGCCCATCATGAGCCCTGGTCTTCTCTCACCGCAGCTCAGCC
 CACAGCTGGTCAGGCAGCAAATAGCTATGGCTCATCTGATAAACCAGCAGATCGCCGTTAGCCGACTTCT
 GGCTCACAGCATCCTCAAGCCATCAACCAGCAGTTCTGAAACATCCACCCATCCAGAGCAGTTAAG
 CCAGAGCCAACAACTCCTCTGTGGAAGTCTCTCTGATATCTACCAGCAAGTTAGAGATGAGCTGAAGA
 GGGTAGCGTGTCTCAAGCTGTCTTCGCAAGAGTGGCATTCAACCGCACACAGGGATTATTGTGAGAGAT
 ACTGCGTAAGGAAGAAGACCCAGGACTGCATCTCAGTCTCTTCTAGTAAACCTGAGGGCCATGCAGAAC
 TTCTCAACCTGCCTGAAGTGGAGCGTACCCTTTACCAGGATGAGCGAGAGCGGAGCATGAACCCCA
 ATGTGAGCATGGTGTCTCTGCCTCTAGCAGTCCAGCTCCTCCCGAACCCACAGGCCAAAACTCGAC
 ACCGACAACAGACCTCCCTATTAAGGTGGACGGAGCCAACGTCAACATCACAGCTGCCATTTATGACGAG
 ATCCAACAGGAGATGAAAAGAGCCAAGGTGTCTCAAGCCCTGTTGCCAAAGTGGCTGCAAAACAAAAGTC
 AGGGCTGGCTCTGTGAATGCTTCGTTGGAAGGAGAACCCAGTCCAGAAAACCGCACCCCTTTGGGAGAA
 TCTCTGCACCATTGCGCCGTTTCTGAATCTTCCCAGCATGAGAGGGATGTGATCTATGAGGAAGAATCT
 CGACATCACACAGTGAAGCATGCAACACGTGGTCCAGTCCCACCTGAGCCCGTGCAGGTCCTTCATC
 GACAGCAGTCCCAGCCAACTAAGGAGAGCTCCCTCCCAGAGAAGAAGCACCCCAACCCCTCCTCAAC
 AGAAGACAGTTGTGCCAAAAACCTCGGTCTCGCACAAGATCTCCTTGGAAAGCACTGGGCATCCTTCAA
 AGCTTCATCCATGATGTAGGCCTCTATCCTGACCAAGAAGCCATCCACACTCTCAGCCAGTTGGATC
 TCCCTAAACACACCATCATCAAGTTCTTCCAGAACCAGAGGTACCATGTGAAGCATCATGGGAAGCTGAA
 GGAGCATCTGGGCTCCGCGGTGGACGTGGCGGAGTATAAGGACGAGGAGCTGCTGACAGAGTCTGAGGAG
 AACGACAGCGAGGAAGGCTCGGACGAGATGTACAAGGTGGAGGCCGAGGAGGAGCGCAGAGAAGAACA
 AGGTGGCCCTGCTGAACTGACCAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210411 representing NM_001109306
 Red=Cloning site Green=Tags(s)

MERRSESPCLRDSPDRRSGSPDVKGPPPVKVARLEQNGSPMGARGRPNNGAVAKAVGGLMIPVFCVVEQLD
 GSLEYDNREEHAFFVLVRKDVLFSQLVETALLALGYSHSSAAQAQGI IKLGRWNPLPLSYVTDAPDATVA
 DMLQDVYHVVTLKIQQLQSCSKLEDLPAEQWNHATVRNALKELLKEMNQSTLAKECPLSQSMISSIVNSTY
 YANVSATKCQEFGRWYKKYKKIKVERVERENLSDYCVLGQRPMHLPNMNQLASLGKTNEQSPHSQIHHST
 PIRNQVPALQPI MSPGLLSPQLSPQLVRQIAMAHLINQQIAVSRLLAHQHPQAINQQFLNHPPIPRAVK
 PEPTNSSVEVSPDIYQQVRDELKRASVSQAVFARVAFNRQTQGLLSEILRKEEDPRTASQSLLVNLRAMQN
 FLNLPEVERDRIYQDERERSMNPVSMVSSASSPSSSRTPQAKTSTPTTDLPIKVDGANVNITAAIYDE
 IQQEMKRAKVSQALFAKVAANKSQGWLCELLRWKENPSPENRTLWENLCTIRRFLNLPQHERDVIYEEES
 RHHHSERMQHVVQLPPEPVQVLRHQQSQPTKESSPPREEAPPPPTEDSCAKKPRSRTKISLEALGILQ
 SFIHVDVGLYPDQEAHTLSAQLDLPKHTIIKFFQNRQYHVKHHGKLEHLGSAVDVAEYKDEELLTESEE
 NDSEEGSDEMYKVEAEESAEKNKVAPAE TDQR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001109306

ORF Size: 2199 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001109306.1](#), [NP_001102776.1](#)

RefSeq Size: 3005 bp

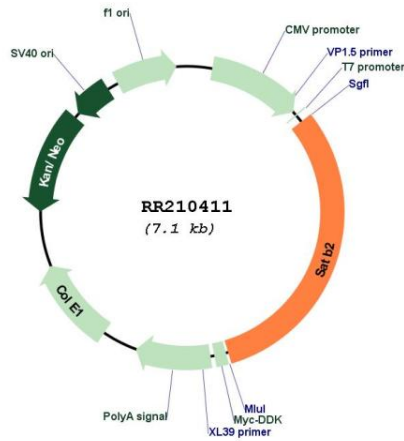
RefSeq ORF: 2202 bp

Locus ID: 501145

Cytogenetics: 9q31

MW: 82.6 kDa

Product images:



Circular map for RR210411