

## Product datasheet for **RG216909**

### **SATB2 (NM\_015265) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SATB2 (NM_015265) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SATB2
Synonyms:	GLSS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216909 representing NM\_015265  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCGCGGGAGCGAGAGCCCGTGTCTGCGGGACAGCCCCGACCGCGGAGCGGCAGCCCGGACGTCA  
 AGGGGCCTCCCCAGTGAAGGTGGCCCGCTGGAGCAGAACGGCAGCCCCATGGGAGCCCGGGAGGCC  
 CAACGGCGCCGTGGCCAAGGCCGTGGGAGTTTGTGATTCTGTCTTTTGTGTCGTGGAGCAGTTGGAC  
 GGCTCTCTTGAATATGACAACAGAGAAGAACACGCCGAGTTTGTCTGGTGCAGAAAGATGTGCTTTTAA  
 GCCAGCTGGTGGAGACTGCGCTCCTGGCCCTGGGGTATTCTCACAGCTCTGCGGCCAGGCCCAAGGAAT  
 AATCAAGCTGGGAAGGTGGAACCCTCTCCCTCAGTTATGTGACAGATGCACCCGACGCGCAGCTGGCC  
 GACATGCTACAAGATGTCTATCATGTTGTGACGTTGAAAATCCAATTACAAAGTTGTTCAAAGTTGGAAG  
 ACTTGCCTGCGGAGCAGTGAACCATGCCACAGTCCGCAATGCCTAAAGGAAGTCTCAAAGAGATGAA  
 CCAGAGCACATTAGCCAAAGAATGCCCTCTCTCCAGAGTATGATTTTATCCATTGTAATAGCACATAT  
 TATGCCAATGTGTGAGCAACCAAGTCCAGGAGTTGGGAGATGGTATAAAAAGTACAAGAAGATTAAGG  
 TGGAAAGAGTGGAAACGAGAAAACCTTTCAGACTATTGTGTTCTGGGCCAGCGTCCAATGCATTTACCAAA  
 TATGAACCAGCTGGCATCCCTGGGGAAAACCAACGAACAGTCTCCTCACAGCCAAATTCACCACAGTACT  
 CCAATCCGAAACCAAGTCCCGCATTACAGCCCATCATGAGCCCTGGTCTTCTTCTCCCGAGCTTAGTC  
 CACAACCTGTAAGGCAACAAATAGCCATGGCCCATCTGATAAACCAACAGATTGCCGTTAGCCGGCTCCT  
 GGCTCACAGCATCCTCAAGCCATCAACCAGCAGTTCTGAAACCATCCACCCATCCCAGAGCAGTTAAG  
 CCAGCCAAACCAACTCTTCCGTGGAAGTCTCTCCAGATATCTACCAGCAAGTCAAGAGATGAGCTGAAGA  
 GGGCCAGTGTGTCCCAAGCTGTCTTTGCAAGAGTGGCATTCAACCGCACACAGGGATTGTTGTCTGAGAT  
 TCTGCGTAAGGAAGAAGACCCTCGACAGCCTCTCAGTCTCTTCTAGTAAACCTGAGGGCCATGCAGAAT  
 TTCTCAATCTGCCAGAAGTGGAGCGAGATCGCATCTACCAGGATGAGAGGGAGCGGAGCATGAATCCCA  
 ATGTGAGCATGGTCTCCTCGGCCTCCAGCAGTCCAGCTCCTCCCGAACCCCTCAGGCCAAAACCTCGAC  
 ACCGACAACAGACCTCCCTATTAAGGTGGACGGCGCCAACATCAACATCACAGCTGCCATTTATGACGAG  
 ATCCAACAGGAGATGAAAAGGGCCAAGGTGTCTCAAGCCCTGTTGCCAAAGTGGCTGCAATAAAAGTC  
 AGGGCTGGCTGTGTGAAGTCTCCGCTGGAAGGAGAACCAAGCCAGAAAACCGCACCCCTCTGGGAAAA  
 CCTCTGTACCATCCGTCGCTTCTGAACCTTCCCAGCATGAGAGGGATGTCATCTATGAGGAGGAGTCA  
 AGGCATCACACAGCGAACGCATGCAACACGTGGTCCAGCTTCCCCTGAGCCGTTGCAGTACTTCATA  
 GACAGCAGTCTCAGCCAGCCAAGGAGAGTTCCCTCCCAGAGAAGAAGCGCCTCCCCACCTCCTCCGAC  
 TGAAGACAGTTGTGCCAAAAGCCCGGTCTCGCACAAAAGATCTCCTTAGAAGCCCTGGGGATCCTCCAA  
 AGCTTTATTATGATGTAGGCCTGTACCAGACCAGGAAGCCATCCACACTCTTTCGGCTCAGCTGGATC  
 TCCCCAAACACACCATCATCAAGTTCTTCCAGAACCAGCGGTACCACGTGAAGCACACGGGAAGCTGAA  
 AGAGCACCTGGGCTCCGCGGTGGACGTGGCTGAATATAAGGACGAGGAGCTGCTGACCGAGTCAGAGGAG  
 AACGACAGCGAGGAAGGCTCCGAGGAGATGTACAAAGTGGAGGCTGAGGAGGAAAATGCTGACAAAAGCA  
 AGGCAGCACCTGCCGAAATTGACCAGAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG216909 representing NM\_015265  
 Red=Cloning site Green=Tags(s)

MERRSESPCLRDSPDRRSGSPDVKGPPPVKVARLEQNGSPMGARGRPNNGAVAKAVGGLMIPVFCVVEQLD  
 GSLEYDNREEHAFLVLRKDVLFSQLVETALLALGYSHSSAAQAQGI IKLGRWNPLPLSYVTDAPDATVA  
 DMLQDVYHVVTLKIQLQSCSKLEDLPAEQWNHATVRNALKELLKEMNQSTLAKECPLSQSMISSIVNSTY  
 YANVSATKCQEFGRWYKYYKKIKVERVERENSDYCVLGQRPMHLPNMNQLASLGKTNESQSPHSQIHHST  
 PIRNQVPALQPI MSPGLLSPQLSPQLVRQIAMAHLINQQIAVSRLLAHQHPQAINQQFLNHPPIPRAVK  
 PEPTNSSVEVSPDIYQQVRDELKRASVSQAVFARVAFNRQTQGLLSEILRKEEDPRTASQSLLVNLAMQN  
 FLNLPEVERDRIYQDERERSMNPVSMVSSASSPSSSRTPQAKTSTPTDLPIKVDGANINITAAIYDE  
 IQQEMKRAKVSQALFAKVAANKSQGWLCELLRWKENPSPENRTLWENLCTIRRFLNLPQHERDVIYEEES  
 RHHHSERMQHVVQLPPEPVQVLRHQSSQPAKESPPREEAPPPPTEDSCAKKPRSRTKISLEALGILQ  
 SFIHDVGLYPDQEAHTLSAQLDLPKHTIIKFFQNRQYHVKHHGKLEHLGSAVDVAEYKDEELLESEE  
 NDSEEGSEEMYKVEAEEENADKSKAAPAEIDQR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_015265

**ORF Size:** 2199 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_015265.4](#)

**RefSeq Size:** 4999 bp

**RefSeq ORF:** 2202 bp

**Locus ID:** 23314

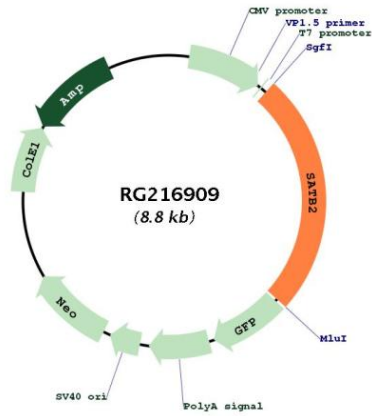
**UniProt ID:** [Q9UPW6](#)

**Cytogenetics:** 2q33.1

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a DNA binding protein that specifically binds nuclear matrix attachment regions. The encoded protein is involved in transcription regulation and chromatin remodeling. Defects in this gene are associated with isolated cleft palate and cognitive disability. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Feb 2010]

Product images:



Circular map for RG216909