

Product datasheet for **RG231415**

SATB1 (NM_001195470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SATB1 (NM_001195470) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SATB1
Synonyms:	DEFDA; KTZSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231415 representing NM_001195470
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCATTGAAACGAGCAACTCAGGGGAAAGAACATTGAGAAATGTCTAACAATGTGAGTGATCCGA
 AGGGTCCACCAGCAAGATTGCCCGCTGGAGCAGAACGGGAGCCGCTAGGAAGAGGAAGGCTTGGGAG
 TACAGGTGCAAAAATGCAGGGAGTGCCTTTAAACACTCGGGCCATCTGATGAAAACCAACCTTAGGAAA
 GGAACCATGCTGCCAGTTTTCTGTGTGGTGAACATTATGAAAACGCCATTGAATATGATTGCAAGGAGG
 AGCATGCAGAATTTGTGCTGGTGAAGGATATGCTTTTCAACCAGCTGATCGAAATGGCATTGCTGTC
 TCTAGTTATTACATAGCTCTGCTGCCAGGCCAAAGGGCTAATCCAGGTTGAAAAGTGGAAATCCAGTT
 CCACTGTCTTACGTGACAGATGCCCTGATGCTACAGTAGCAGATATGCTTCAAGATGTGTATCATGTGG
 TCACATTGAAAATTCAGTTACACAGTTGCCCAAACACTAGAAGACTTGCCTCCGAAACAATGGTCGCACAC
 CACAGTGAGGAATGCTCTGAAGGACTTACTGAAAGATATGAATCAGAGTTCATTGGCCAAGGAGTGCCCC
 CTTTCACAGAGTATGATTTCTTCCATTGTGAACAGTACTTACTATGCAAAATGTCTCAGCAGCAAAAATGTC
 AAGAATTTGGAAGGTGGTACAAACATTTCAAGAAGACAAAAGATATGATGGTTGAAATGGATAGTCTTTC
 TGAGCTATCCCAGCAAGGCGCAATCATGTCAATTTTGGCCAGCAACCAGTTCAGGGAACACAGCCGAG
 CAGCCTCCATCCCCTGCGCAGCTCTCCCATGGCAGCCAGCCCTCTGTCCGGACACCTCTTCCAAACCTGC
 ACCCTGGGCTCGTATCAACACCTATCAGTCCTCAATTGGTCAACCAGCAGCTGGTGATGGCTCAGCTGCT
 GAACCAGCAGTATGCAGTGAATAGACTTTTAGCCAGCAGTCTTAAACCAACAATACTTGAACCACCT
 CCCCTGTGAGTATGATGAATAAGCCTTTGGAGCAACAGGTTTCGACCAACACAGAGGTGTCTTCCG
 AAATCACCAGTGGGTACGCGATGAACTGAAACGAGCAGGAATCTCCAGGCGGTATTTGCACGTGTGGC
 TTTTAAACAGAACTCAGGGCTTGCTTTAGAAAATCCTCCGAAAGGAGAGACCCCAAGACTGCATCCAG
 TCTTTGCTGGTAAACCTTCGGGCTATGCAGAAATTTCTTGCAGTTACCGGAAGCTGAAAGAGACCGAATAT
 ACCAGGACGAAAGGAAAGGAGCTTGAATGCTGCCTCGGCCATGGGTCTGCCCCCTCATCAGCACACC
 ACCCAGCCGCTCTCCAGGTGAAAACAGCTACTATTGCCACTGAAAGGAATGGGAAACCAGAGAACAAT
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 CACTGTTTGCAAAGGTTGCAGCAACCAAAAGCCAGGGATGGTGTGCGAGCTGTTACGCTGGAAAGAAGA
 TCCTTCTCCAGAAAACAGAACCTGTGGGAGAACCTCTCCATGATCCGAAGTTCTCAGTCTTCTCAG
 CCAGAACGTGATGCCATTTATGAACAGGAGAGCAACGCGGTGCATCACCATGGCGACAGGCCGCCCCACA
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 CAGCAACAGC
 CTCGGCTCCCCCAGGCAACCCACGGTGGCCTCTCCAGCAGAGTCAGATGAGGAAAACCGACAGAAGAC
 CCGGCCACGAACAAAATTTAGTGAAGCCTTGGGAATCCTCCAGAGTTTCATAAAGACGTGGGCTG
 TACCCTGACGAAGAGGCCATCCAGACTGTCTGCCAGCTCGACCTTCCAAGTACACCATCATCAAGT
 TCTTTCAGAACCAGCGGTACTATCTCAAGCACCAGGCAAACTGAAGGACAATTCGGTGTAGAGGTCGA
 TGTGGCAGAATATAAAGAAGAGGAGCTGCTGAAGGATTTGGAAGAGAGTGTCCAAGATAAAAATACTAAC
 ACCCTTTTTTTCAGTGAACACTAGAAGAAGAGCTGTCAGTGAAGGAAACACAGACATTAATACTGATTTGA
 AAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG231415 representing NM_001195470
Red=Cloning site Green=Tags(s)

MDHLNEATQGKEHSEMSNNVSDPKGPPAKIARLEQNGSPLGRGRLGSTGAKMQGVPLKHSGLMKTNLRK
GTMLPVFCVVEHYENAI EYDCKEEHA EFLVRKDMLFNQLIEMALLSLGYSHSSAAQAGLIQVGKWNPV
PLSYVTDAPDATVADMLQDVYHVVTLKIQLHSCP KLEDLPPEQWSHTTVRNAL KDLLKDMNQSSLAKECP
LSQSMISSIVNSTYYANVSAAKCQEFGRWYKHFKKTKDMMVEMDSLSELSQQGANHVNFQQPVPVGN TAE
QPPSPAQLSHGSQPSVRTPLPNLHPGLVSTPISPQLVNQQLVMAQLLNQQYAVNRLLAQQLNQQYL NHP
PPVSRSMNKPLEQQVSTNTEVSSEIYQWVRDELKRAGISQAVFARVAFNRTQGLLSEILRKEEDPKTASQ
SLLVNL RAMQNFLQLPEAERDRIYQDERERSLNAASAMGPAPLISTPPSRPPQVK TATIATERNGKPENN
TMNINASIYDEIQQEMKRAKVSQALFAKVAATKSQGWLC ELLRWKEDPSPENRTLWENLSMIRRFSLPQ
PERDAIYEQESNAVHHHGDRPPHI IHVPAEQIQSPSTTLGKGESRGVFLPGLPTPAPWLG AAPQQQQQQ
QQQQQQQQAPPPQPQQPQTGPRLPPRQPTVASPAESDEENRQKTRPRTKISVEALGILQSF IQDVGL
YPDEEAIQTL SAQLDLPKYTI IKFFQNQRYYLKHGKLDNSGLEVDVAEYKEEELLKDLEESVQDKNTN
TLFSVKLEEEELSVEGNTDINTDLKD

TRTRPLE - GFP Tag - V

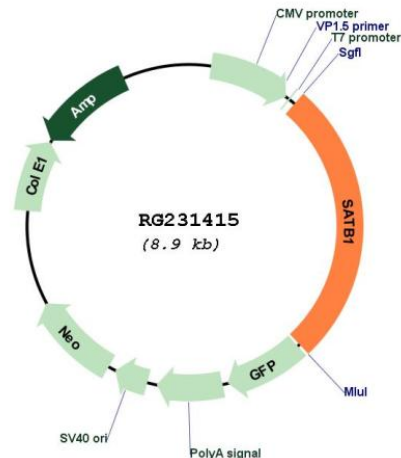
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001195470

ORF Size: 2385 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_001195470.3](#)

RefSeq Size: 5652 bp

RefSeq ORF: 2388 bp

Locus ID: 6304

UniProt ID: [Q01826](#)

Cytogenetics: 3p24.3

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]