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Product datasheet for RG200421

SATB1 (NM_002971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SATB1 (NM_002971) 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)

View online »

ORF Nucleotide Sequence:

>RG200421 representing NM_002971
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCATTTGAACGAGGCAACTCAGGGGAAAGAACATTCAGAAATGTCTAACAATGTGAGTGATCCGA
AGGGTCCACCAGCCAAGATTGCCCGCCTGGAGCAGAACGGGAGCCCGCTAGGAAGAGGAAGGCTTGGGAG
TACAGGTGCAAAAATGCAGGGAGTGCCTTTAAAACACTCGGGCCATCTGATGAAAACCAACCTTAGGAAA
GGAACCATGCTGCCAGTTTTCTGTGTGGTGGAACATTATGAAAACGCCATTGAATATGATTGCAAGGAGG
AGCATGCAGAATTTGTGCTGGTGAGAAAGGATATGCTTTTCAACCAGCTGATCGAAATGGCATTGCTGTC
TCTAGGTTATTCACATAGCTCTGCTGCCCAGGCCAAAGGGCTAATCCAGGTTGGAAAGTGGAATCCAGTT
CCACTGTCTTACGTGACAGATGCCCCTGATGCTACAGTAGCAGATATGCTTCAAGATGTGTATCATGTGG
TCACATTGAAAATTCAGTTACACAGTTGCCCCAAACTAGAAGACTTGCCTCCCGAACAATGGTCGCACAC
CACAGTGAGGAATGCTCTGAAGGACTTACTGAAAGATATGAATCAGAGTTCATTGGCCAAGGAGTGCCCC
CTTTCACAGAGTATGATTTCTTCCATTGTGAACAGTACTTACTATGCAAATGTCTCAGCAGCAAAATGTC
AAGAATTTGGAAGGTGGTACAAACATTTCAAGAAGACAAAAGATATGATGGTTGAAATGGATAGTCTTTC
TGAGCTATCCCAGCAAGGCGCCAATCATGTCAATTTTGGCCAGCAACCAGTTCCAGGGAACACAGCCGAG
CAGCCTCCATCCCCTGCGCAGCTCTCCCATGGCAGCCAGCCCTCTGTCCGGACACCTCTTCCAAACCTGC
ACCCTGGGCTCGTATCAACACCTATCAGTCCTCAATTGGTCAACCAGCAGCTGGTGATGGCTCAGCTGCT
GAACCAGCAGTATGCAGTGAATAGACTTTTAGCCCAGCAGTCCTTAAACCAACAATACTTGAACCACCCT
CCCCCTGTCAGTAGATCTATGAATAAGCCTTTGGAGCAACAGGTTTCGACCAACACAGAGGTGTCTTCCG
AAATCTACCAGTGGGTACGCGATGAACTGAAACGAGCAGGAATCTCCCAGGCGGTATTTGCACGTGTGGC
TTTTAACAGAACTCAGGGCTTGCTTTCAGAAATCCTCCGAAAGGAAGAGGACCCCAAGACTGCATCCCAG
TCTTTGCTGGTAAACCTTCGGGCTATGCAGAATTTCTTGCAGTTACCGGAAGCTGAAAGAGACCGAATAT
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ACCCAGCCGTCCTCCCCAGGTGAAAACAGCTACTATTGCCACTGAAAGGAATGGGAAACCAGAGAACAAT
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CACTGTTTGCAAAGGTTGCAGCAACCAAAAGCCAGGGATGGTTGTGCGAGCTGTTACGCTGGAAAGAAGA
TCCTTCTCCAGAAAACAGAACCCTGTGGGAGAACCTCTCCATGATCCGAAGGTTCCTCAGTCTTCCTCAG
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TTATCCATGTTCCAGCAGAGCAGATTCAGCAACAGCAGCAGCAACAGCAACAGCAGCAGCAGCAGCA
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GTGGCCTCTCCAGCAGAGTCAGATGAGGAAAACCGACAGAAGACCCGGCCACGAACAAAAATTTCAGTGG
AAGCCTTGGGAATCCTCCAGAGTTTCATACAAGACGTGGGCCTGTACCCTGACGAAGAGGCCATCCAGAC
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AAGCACCACGGCAAACTGAAGGACAATTCCGGTTTAGAGGTCGATGTGGCAGAATATAAAGAAGAGGAGC
TGCTGAAGGATTTGGAAGAGAGTGTCCAAGATAAAAATACTAACACCCTTTTTTCAGTGAAACTAGAAGA
AGAGCTGTCAGTGGAAGGAAACACAGACATTAATACTGATTTGAAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

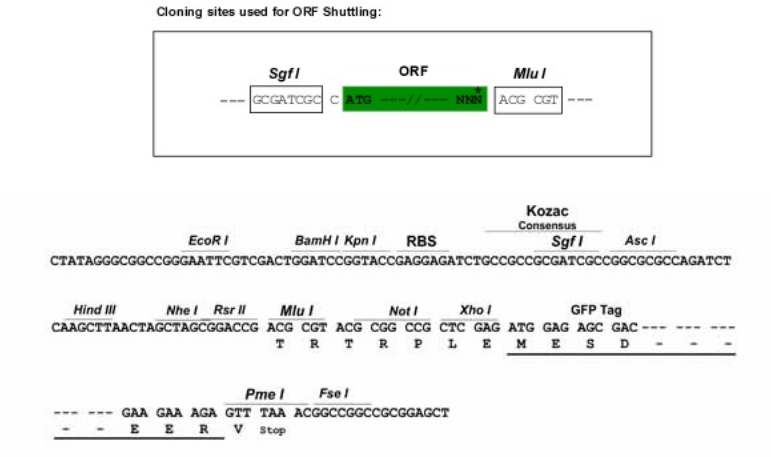
>RG200421 representing NM_002971
Red=Cloning site Green=Tags(s)

MDHLNEATQGKEHSEMSNNVSDPKGPPAKIARLEQNGSPLGRGRLGSTGAKMQGVPLKHSGHLMKTNLRK
GTMLPVFCVVEHYENAIEYDCKEEHAEFVLVRKDMLFNQLIEMALLSLGYSHSSAAQAKGLIQVGKWNPV
PLSYVTDAPDATVADMLQDVYHVVTLKIQLHSCPKLEDLPPEQWSHTTVRNALKDLLKDMNQSSLAKECP
LSQSMISSIVNSTYYANVSAAKCQEFGRWYKHFKKTKDMMVEMDSLSELSQQGANHVNFGQQPVPGNTAE
QPPSPAQLSHGSQPSVRTPLPNLHPGLVSTPISPQLVNQQLVMAQLLNQQYAVNRLLAQQSLNQQYLNHP
PPVSRSMNKPLEQQVSTNTEVSSEIYQWVRDELKRAGISQAVFARVAFNRTQGLLSEILRKEEDPKTASQ
SLLVNLRAMQNFLQLPEAERDRIYQDERERSLNAASAMGPAPLISTPPSRPPQVKTATIATERNGKPENN
TMNINASIYDEIQQEMKRAKVSQALFAKVAATKSQGWLCELLRWKEDPSPENRTLWENLSMIRRFLSLPQ
PERDAIYEQESNAVHHHGDRPPHIIHVPAEQIQQQQQQQQQQQQQQQAPPPPQPQQQPQTGPRLPPRQPT
VASPAESDEENRQKTRPRTKISVEALGILQSFIQDVGLYPDEEAIQTLSAQLDLPKYTIIKFFQNQRYYL
KHHGKLKDNSGLEVDVAEYKEEELLKDLEESVQDKNTNTLFSVKLEEELSVEGNTDINTDLKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002971

ORF Size: 2289 bp

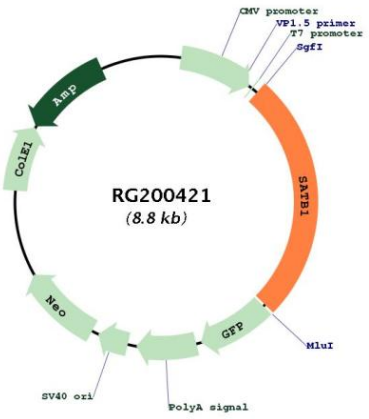
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_002971.6
RefSeq Size:	3782 bp
RefSeq ORF:	2292 bp
Locus ID:	6304
UniProt ID:	Q01826
Cytogenetics:	3p24.3
Domains:	homeobox, CUT
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]

Product images:



Circular map for RG200421