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Product datasheet for RG230466

SATB2 (NM_001172509) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SATB2 (NM_001172509) 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)

ORF Nucleotide Sequence:

>RG230466 representing NM_001172509
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGGCGGAGCGAGAGCCCGTGTCTGCGGGACAGCCCCGACCGGCGGAGCGGCAGCCCGGACGTCA
AGGGGCCTCCCCCAGTGAAGGTGGCCCGGCTGGAGCAGAACGGCAGCCCCATGGGAGCCCGCGGGAGGCC
CAACGGCGCCGTGGCCAAGGCCGTGGGAGGTTTGATGATTCCTGTCTTTTGTGTCGTGGAGCAGTTGGAC
GGCTCTCTTGAATATGACAACAGAGAAGAACACGCCGAGTTTGTCCTGGTGCGGAAAGATGTGCTTTTTA
GCCAGCTGGTGGAGACTGCGCTCCTGGCCCTGGGGTATTCTCACAGCTCTGCGGCCCAGGCCCAAGGAAT
AATCAAGCTGGGAAGGTGGAACCCTCTCCCCCTCAGTTATGTGACAGATGCACCCGACGCGACAGTGGCC
GACATGCTACAAGATGTCTATCATGTTGTGACGTTGAAAATCCAATTACAAAGTTGTTCAAAGTTGGAAG
ACTTGCCTGCGGAGCAGTGGAACCATGCCACAGTCCGCAATGCCTTAAAGGAACTGCTCAAAGAGATGAA
CCAGAGCACATTAGCCAAAGAATGCCCTCTCTCCCAGAGTATGATTTCATCCATTGTAAATAGCACATAT
TATGCCAATGTGTCAGCAACCAAGTGCCAGGAGTTTGGGAGATGGTATAAAAAGTACAAGAAGATTAAAG
TGGAAAGAGTGGAACGAGAAAACCTTTCAGACTATTGTGTTCTGGGCCAGCGTCCAATGCATTTACCAAA
TATGAACCAGCTGGCATCCCTGGGGAAAACCAACGAACAGTCTCCTCACAGCCAAATTCACCACAGTACT
CCAATCCGAAACCAAGTGCCCGCATTACAGCCCATCATGAGCCCTGGTCTTCTTTCTCCCCAGCTTAGTC
CACAACTTGTAAGGCAACAAATAGCCATGGCCCATCTGATAAACCAACAGATTGCCGTTAGCCGGCTCCT
GGCTCACCAGCATCCTCAAGCCATCAACCAGCAGTTCCTGAACCATCCACCCATCCCCAGAGCAGTTAAG
CCAGAGCCAACCAACTCTTCCGTGGAAGTCTCTCCAGATATCTACCAGCAAGTCAGAGATGAGCTGAAGA
GGGCCAGTGTGTCCCAAGCTGTCTTTGCAAGAGTGGCATTCAACCGCACACAGGGATTGTTGTCTGAGAT
TCTGCGTAAGGAAGAAGACCCTCGGACAGCCTCTCAGTCTCTTCTAGTAAACCTGAGGGCCATGCAGAAT
TTCCTCAATCTGCCAGAAGTGGAGCGAGATCGCATCTACCAGGATGAGAGGGAGCGGAGCATGAATCCCA
ATGTGAGCATGGTCTCCTCGGCCTCCAGCAGTCCCAGCTCCTCCCGAACCCCTCAGGCCAAAACCTCGAC
ACCGACAACAGACCTCCCTATTAAGGTGGACGGCGCCAACATCAACATCACAGCTGCCATTTATGACGAG
ATCCAACAGGAGATGAAAAGGGCCAAGGTGTCTCAAGCCCTGTTTGCCAAAGTGGCTGCAAATAAAAGTC
AGGGCTGGCTGTGTGAACTGCTCCGCTGGAAGGAGAACCCAAGCCCAGAAAACCGCACCCTCTGGGAAAA
CCTCTGTACCATCCGTCGCTTCCTGAACCTTCCCCAGCATGAGAGGGATGTCATCTATGAGGAGGAGTCA
AGGCATCACCACAGCGAACGCATGCAACACGTGGTCCAGCTTCCCCCTGAGCCGGTGCAGGTACTTCATA
GACAGCAGTCTCAGCCAGCCAAGGAGAGTTCCCCTCCCAGAGAAGAAGCGCCTCCCCCACCTCCTCCGAC
TGAAGACAGTTGTGCCAAAAAGCCCCGGTCTCGCACAAAGATCTCCTTAGAAGCCCTGGGGATCCTCCAA
AGCTTTATTCATGATGTAGGCCTGTACCCAGACCAGGAAGCCATCCACACTCTTTCGGCTCAGCTGGATC
TCCCCAAACACACCATCATCAAGTTCTTCCAGAACCAGCGGTACCACGTGAAGCACCACGGGAAGCTGAA
AGAGCACCTGGGCTCCGCGGTGGACGTGGCTGAATATAAGGACGAGGAGCTGCTGACCGAGTCAGAGGAG
AACGACAGCGAGGAAGGCTCCGAGGAGATGTACAAAGTGGAGGCTGAGGAGGAAAATGCTGACAAAAGCA
AGGCAGCACCTGCCGAAATTGACCAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

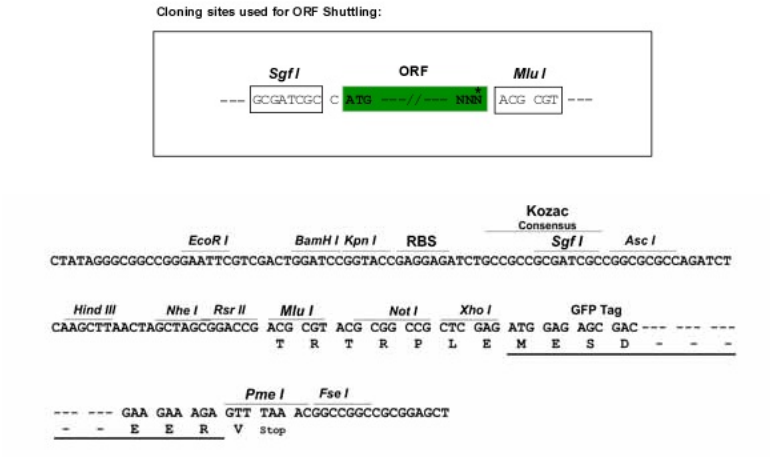
>RG230466 representing NM_001172509
Red=Cloning site Green=Tags(s)

MERRSESPCLRDSPDRRSGSPDVKGPPPVKVARLEQNGSPMGARGRPNGAVAKAVGGLMIPVFCVVEQLD
GSLEYDNREEHAEFVLVRKDVLFSQLVETALLALGYSHSSAAQAQGIIKLGRWNPLPLSYVTDAPDATVA
DMLQDVYHVVTLKIQLQSCSKLEDLPAEQWNHATVRNALKELLKEMNQSTLAKECPLSQSMISSIVNSTY
YANVSATKCQEFGRWYKKYKKIKVERVERENLSDYCVLGQRPMHLPNMNQLASLGKTNEQSPHSQIHHST
PIRNQVPALQPIMSPGLLSPQLSPQLVRQQIAMAHLINQQIAVSRLLAHQHPQAINQQFLNHPPIPRAVK
PEPTNSSVEVSPDIYQQVRDELKRASVSQAVFARVAFNRTQGLLSEILRKEEDPRTASQSLLVNLRAMQN
FLNLPEVERDRIYQDERERSMNPNVSMVSSASSSPSSSRTPQAKTSTPTTDLPIKVDGANINITAAIYDE
IQQEMKRAKVSQALFAKVAANKSQGWLCELLRWKENPSPENRTLWENLCTIRRFLNLPQHERDVIYEEES
RHHHSERMQHVVQLPPEPVQVLHRQQSQPAKESSPPREEAPPPPPPTEDSCAKKPRSRTKISLEALGILQ
SFIHDVGLYPDQEAIHTLSAQLDLPKHTIIKFFQNQRYHVKHHGKLKEHLGSAVDVAEYKDEELLTESEE
NDSEEGSEEMYKVEAEEENADKSKAAPAEIDQR

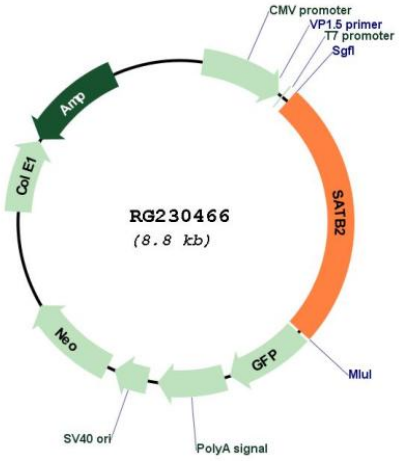
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001172509
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 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_001172509.2
RefSeq Size:	5730 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]