

Product datasheet for **MG203931**

Tra2b (NM_009186) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tra2b (NM_009186) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tra2b
Synonyms:	5730405G21Rik; D16Ertd266e; Sfrs10; SIG-41; Silg41; TRA2beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203931 representing NM_009186 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGACAGCGGCGAGCAGAACTACGGCGAGCGGGAATCCCGTTCTGCTTCCCGAAGTGAAGTGCTC
ACGGATCGGGGAAATCTGCACGGCATAACCTGCAAGGTCTCGCTCCAAGGAAGACTCAAGGCGTTCTAG
ATCAAAGTCCAGGTCCAGGTCTGAATCTAGGTCTAGATCCAGAAGAAGTTCTAGAAGGCATTATAACAAG
TCAGGATCAGATCTCGCTCGCATAGACGATCCCGGAGCAGGTCTTACAGCCGAGATTATCGCAGGCGCC
ACAGCCACAGCCATTCTCCCATGTCTACTCGAAGGCGTCATGTTGGGAACCGGGCAAATCCTGACCCCAA
CTGTTGTCTTGGCGTGTGGGTTGAGCTTATACACCACAGAAAGAGACCTAAGAGAAGTGTCTCTAAA
TATGGCCCCATTGCTGATGTGTCTATTGTATATGACCAGCAATCTAGACGTTCAAGAGGATTTGCCTTTG
TATATTTTAAAAATGTAGACGATGCCAAGGAAGCTAAAGAACGTGCCAATGGAATGGAGCTTGATGGGCG
TCGAATTAGAGTCGATTCTCTATAACAAAAAGGCCCATACCCCAACACCAGGAATTTATATGGGGAGA
CCCCTTATGGCAGTTCTCGCCCGGAGACTATTATGACAGAGGGTACGATCGGGTTATGATGACCGGG
ACTATTACAGCAGATCATACAGAGGAGGAGGTGGTGGAGGAGGTGGATGGAGAGCAGCTCAAGACAGGGA
TCAGATTTACAGAAGACGGTCACCTTCTCCTTACTACAGTCGTGGAGGATACAGGTCACGTTCTCGATCA
CGATCCTACTCACCTCGTCGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203931 representing NM_009186
 Red=Cloning site Green=Tags(s)

MSDSGEQNYGERESRSASRSGSAHGSGKSARHTPARSRKEDSRRSRKSRSRSESRRSRRSSRRHYTR
 SRSRSRSHRRSRSYSRDRYRRRHSHSHSPMSTRRRHVGNRANPDNCLGVFGLSLYTTERDLREVF
 SK YGPIADVSIYDQQRSSRGFAFVYFENVDDAKEAKERANGMELDGRRI RVDF SITKRPHTPTPGI
 YMGR PTYGSSRRRDYDRGYDRGYDDRYYRSYRGGGGGGWRAAQDRDQIYRRRSPSPYYSRGGYRSRSRS
 RSYSPPRY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009186

ORF Size: 864 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_009186.5](#)

RefSeq Size: 2135 bp

RefSeq ORF: 867 bp

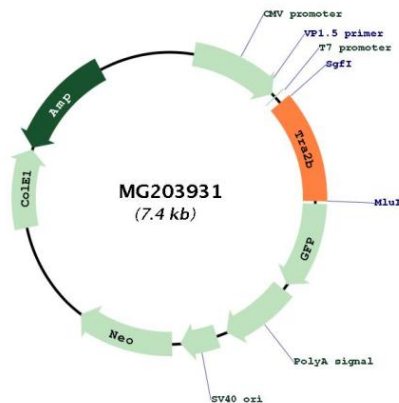
Locus ID: 20462

UniProt ID: [P62996](#)

Cytogenetics: 16 13.18 cM

Gene Summary: Sequence-specific RNA-binding protein which participates in the control of pre-mRNA splicing. Can either activate or suppress exon inclusion. Acts additively with RBMX to promote exon 7 inclusion of the survival motor neuron SMN2. Activates the splicing of MAPT/Tau exon 10. Alters pre-mRNA splicing patterns by antagonizing the effects of splicing regulators, like RBMX. Binds to the AG-rich SE2 domain in the SMN exon 7 RNA. Binds to pre-mRNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203931