

## Product datasheet for MR203931

### Tra2b (NM\_009186) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tra2b (NM\_009186) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tra2b  
**Synonyms:** 5730405G21Rik; D16Ertd266e; Sfrs10; SIG-41; Silg41; TRA2beta  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR203931 representing NM\_009186  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCGACAGCGCGAGCAGAACTACGGCGAGCGGGAATCCCGTTCTGCTTCCCGAAGTGGAAAGTGCTC  
 ACGGATCGGGGAAATCTGCACGGCATAACCTGCAAGGTCTCGCTCCAAGGAAGACTCAAGGCGTTCTAG  
 ATCAAAGTCCAGGTCCAGGTCTGAATCTAGGTCTAGATCCAGAAGAAGTTCTAGAAGGCATTATAACAAG  
 TCAGGATCAGATCTCGCTCGCATAGACGATCCCGGAGCAGGTCTTACAGCCGAGATTATCGCAGGCGCC  
 ACAGCCACAGCCATTCTCCCATGTCTACTCGAAGGCGTCATGTTGGGAACCGGGCAAATCCTGACCCCAA  
 CTGTTGTCTTGGCGTGTGGGTTGAGCTTATACACCACAGAAAGAGACCTAAGAGAAGTGTCTCTAAA  
 TATGGCCCCATTGCTGATGTGTCTATTGTATATGACCAGCAATCTAGACGTTCAAGAGGATTTGCCTTTG  
 TATATTTTAAAAATGTAGACGATGCCAAGGAAGCTAAAGAACGTGCCAATGGAATGGAGCTTGATGGGCG  
 TCGAATTAGAGTCGATTTCTCTATAACAAAAAGGCCCATACCCCAACACCAGGAATTTATATGGGGAGA  
 CCCACTTATGGCAGTTCTCGCCCGGAGACTATTATGACAGAGGGTACGATCGGGTTATGATGACCGGG  
 ACTATTACAGCAGATCATACAGAGGAGGAGGTGGTGGAGGAGGTGGATGGAGAGCAGCTCAAGACAGGGA  
 TCAGATTTACAGAAGACGGTCACCTTCTCCTTACTACAGTCGTGGAGGATACAGGTCACGTTCTCGATCA  
 CGATCCTACTCACCTCGTCGCTAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203931 representing NM\_009186  
Red=Cloning site Green=Tags(s)

MSDSGEQNYGERESRSASRSGSAHGSGKSARHTPARSRKEDSRRSRKSRSRSESRRSRRSSRRHYTR  
 SRSRSRSHRRSRRSYSRDYRRRHSHSHSPMSTRRRHVGNRANPDNCCLGVFGLSLYTTERDLREVFSK  
 YGPIADVSIYDQQSRRSRGFAFVYFENVDDAKEAKERANGMELDGRRI RVDFSITKRPHTPTPGIYMGR  
 PTYGSRRRDYDRGYDRGYDDRDYYSRYRGGGGGGWRAAQDRDQIYRRRSPSPYYSRGGYRSRSRS  
 RSYSPRRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

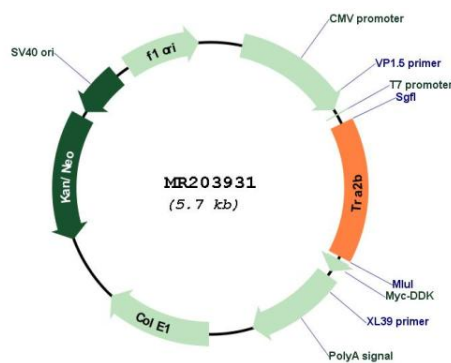
**UniProt ID:** [P62996](#)

**Cytogenetics:** 16 13.18 cM

**MW:** 34.1 kDa

**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 MR203931