

## Product datasheet for **MG203634**

### Trdn (BC034343) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trdn (BC034343) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trdn
Synonyms:	TDN, triadin-1, triadin-2, triadin-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203634 representing BC034343 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGAGATCACTGCTGAAGGAAATGCATCGACAACCACAACGGTGATAGACAACAAAAATGGATCTA  
TTCCTAAATCCCCTGGAAAGGTGCTGAAGAGGTCTGTCACCGAAGACATTGTGACAACATTCAGCTCCCC  
TGCAGCCTGGCTTCTTGTCATCGCTCTGATTATCACATGGTCAGCTGTTGCTATCGTGATGTTTGATTTA  
GTGGATTAAAAACTTTTCAGCAAGCTCCATTGCCAAGATTGGCTCAGATCCTCTAAAAGTGAATG  
ATGCTGTGGAGGAGACAACAGACTGGATCTACGGCTTCTCTCTTTGCTATCTGACATCATCTCATCTGA  
AGGTGACGAAGATGATGAGGATGCAGATGAAGACATTGATAAAGGAGAAAATAGAAGAACCTCCCTTAAAA  
AGAAAAGAAATACACCAAGAAAAGGCTGAAAAGAGGAGAAACCTGAGAAGAAAATACAACTAAAGCTT  
CACACAGAGAAAAGGAGAAAAGAAAAGAAAATTTAAAAGGAGAAAACCTGAGAAGACAGCAACTCACAA  
AGAGAACTTGAGAAAAAGAAAGACCAGAGACGAAGATGATGGCAAAAGAGGACAAGAAAATTAAGACT  
AAGGAAAAGACTGAAGAAAAGGCTAAGAAGGAAATGAAAGTTGGAAAACAGGAGAAAGTGAACCAACAG  
CTGCAAAGCCAAAGAACTCCGAAAACACCACAAAGGCCAGAAAAGAAGGATGACAAAGAGATGCCAGCT  
GTGCATGAGCAGAAAAGGACAAAGCCAGTTATGCCACCACCATCAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203634 representing BC034343  
 Red=Cloning site Green=Tags(s)

MTEITAEGNASTTTTVIDNKNKSIPKSPGKVLKRSVTEDIVTTFSSPAAWLLVIALIITWSAVAIVMFDL  
 VDYNKFSASSIAKIGSDPLKLVNDAVEETDWIYGFFSLLSDIISSEGDEDEDADEDIDKGEIEEPPLK  
 RKEIHQEKAEKKEKPEKKIQTKASHREKEKGEKLGKEKPEKTATHKEKLEKKERPETKMMAKEDKKIKT  
 KEKTEEKAKKEMKVGKQEKVKPTAAKPKLKRKHQRPERRMTKRCQLCMSRKDKAQLCHHHH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC034343

**ORF Size:** 816 bp

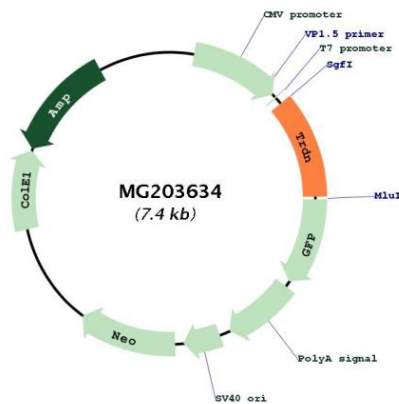
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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:** [BC034343.1](#)
- RefSeq Size:** 1045 bp
- RefSeq ORF:** 818 bp
- Locus ID:** 76757
- Cytogenetics:** 10 A4
- Gene Summary:** Contributes to the regulation of luminal Ca<sup>2+</sup> release via the sarcoplasmic reticulum calcium release channels RYR1 and RYR2, a key step in triggering skeletal and heart muscle contraction. Required for normal organization of the triad junction, where T-tubules and the sarcoplasmic reticulum terminal cisternae are in close contact. Required for normal skeletal muscle strength (PubMed:19843516). Plays a role in excitation-contraction coupling in the heart and in regulating the rate of heart beats.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG203634