

## Product datasheet for MC218487

### Trdn (BC034343) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Trdn (BC034343) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Trdn  
 Synonyms: TDN, triadin-1, triadin-2, triadin-3  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >BC034343  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGACTGAGATCACTGCTGAAGGAAATGCATCGACAACCACAACGGTGATAGACAACAAAAATGGATCTA  
 TTCCTAAATCCCCTGAAAAGGTGCTGAAGAGGTCTGTACCGAAGACATTGTGACAACATTCAGCTCCCC  
 TGCAGCCTGGCTTCTTGTATCGCTCTGATTATCACATGGTCAGCTGTTGCTATCGTGATGTTTGATTTA  
 GTGGATTAAAAAATTTTCAGCAAGCTCCATTGCCAAGATTGGCTCAGATCCTCTAAAAGTGTGAATG  
 ATGCTGTGGAGGAGACAACAGACTGGATCTACGGCTTCTTCTCTTTGCTATCTGACATCATCTCATCTGA  
 AGGTGACGAAGATGATGAGGATGCAGATGAAGACATTGATAAAGGAGAAAATAGAAGAACCTCCCTAAAA  
 AGAAAAGAAAATACACCAAGAAAAGGCTGAAAAAGAGGAGAAAACCTGAGAAGAAAATACAACTAAAGCTT  
 CACACAGAGAAAAGGAGAAAAGGAAAAGAAAATTTAAAAGGAGAAAACCTGAGAAGACAGCAACTCACAA  
 AGAGAACTTGAGAAAAAAGAAAGACCAGAGACGAAGATGATGGCAAAAAGAGGACAAGAAAATTAAGACT  
 AAGGAAAAGACTGAAGAAAAGGCTAAGAAGGAAATGAAAGTTGGAAAACAGGAGAAAAGTGAACCAACAG  
 CTGCAAAGCCAAAAGAACTCCGAAAACACCACCAAGGCCAGAAAAGAGGATGACAAAGAGATGCCAGCT  
 GTGCATGAGCAGAAAGGACAAAGCCAGTTATGCCACCACCATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: BC034343  
 Insert Size: 819 bp



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**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](#)

**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](#), [AAH34343](#)

**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]