

## Product datasheet for **MC228751**

### **Tdrd3 (NM\_001253755) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tdrd3 (NM_001253755) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tdrd3
Synonyms:	4732418C03Rik; 6720468N18
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228751 representing NM\_001253755  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGGTGTCCGGCGCCGTTGTCCAGGCGGGTTGGTACCTTTCAGATGAAGGCGTTGAAGCCT  
 GCACAAGCTCTCCTGGGAAAGGCAGCATAAATGACATCATCCTGATTGCTCTCAATACAGATTTGAGAAC  
 AATTGGCAAGAAGTTCCTTCCCAGTGACATCAACGGTGGAAAGGTAGAGAAGCTTGAAGGCCATGTGTC  
 TTACAATTCAGAAGTCCGCAATGTTGCTGCGCCAAAGGATAACGAGGAATCGCAAGCTGCGCCAAGGA  
 TGCTCCGCGTGACAGTACGGATGGGCATAACAAGTTGTACGGCAGTAGAATTCAGTTATATTTCAAAAAT  
 AAGCCTGAACACACCACCTGGCACAAGTGAAGCTCTCTGGCACTGTGGACATAAAGAACGGATTCTCTG  
 CTCTTAAGTGACTCTAACACCACAGTCTTGGTGGTGAAGTGAACACCTAATTGACAAGTGGGCTTTAC  
 AGAGAAGCTTATTAAGCATAACAGAAGCAATATTGGAGCTGAAGTGGCCACCTCTTTTCTACCTTT  
 TGGGCAGAAGTGTGCATCTAACGTCCAAGTGGATAGCAGAGAGCTTGATCGAAGAAAGACATTACAAGT  
 TCCTGCCTGCCAAGCCTGCAAAATGATAATGATGAATTTGAAAAGCAAAGAACTGCTGCCATTGCAGAGG  
 TTGCAAAGAGCAAAGAGACCAAGACATTTGGAGGAGGTGGAGGTGGTCCAGAAGTAATCTCAATATTGG  
 TGCTGCTGGTACCGAAATAGGGAGTTTTACAGAAGGAAAAGGCTTCCAAGTCAGAGAGCAAGAACGAA  
 GGTGTCTATAGAGAATTGGTTGATGAGAAAAGCCCTGAAACACATAACAGAAATGGGCTTCAGTAAGGAGG  
 CCTCAAGGCAAGCGCTGATGGATAATGCCAACAACTTAGAAGCAGCACTGAATGTCTTCTGAACAGCAG  
 TAAACAGAAGCCTGCTGTGGGCCCTCCTGCTAGAGGAAGAGGGAAAGGCAGGGGTGAGGACGATCAGAA  
 GATGAGGAAGACCTGGGAACCGCAAGACCGTACGACCAAGCACGTTATTTGATTTCTTGGAGTCTAAAA  
 TGGGAACCTGGAATGTGGAAGAACCTAAGTCACAGCCACAGCACCTTCATCAAGGACAGCAGAGGATG  
 GAATGCCGAGCAAATGGGATGAAGGACGGCACTCAGTCAAGACATCTTCCCTCGAAACGATACCAGGCAG  
 CCAAGAAATGAGAGGCCCTCGCTTTCAAAAAGACACCCCAACTTCCAAGTCAACTGTAGAAAACAGCG  
 TATTATCTAGAAAATAGAGGCTCCGAAAGGCCGAGTAGTTCCTCAGGTTCTGATGTATGGGCAAGAGAG  
 GATCAAGTGTGACAGGCCATATTCTAGGTATGACAGAATAAAGACGCTTACATCCTCTAGGCCTTCAG  
 CACAACGATGGTCTTTTAAAAAGAGAGAGAACTCTATGCAAAACAGACCAGGAAGAGGCCCTTTGTATG  
 CAGAGGCCAAAGAAAACCCACTTCTCCAGAATTCGTAGATTACAATAATCAAAGACGTGGGAGAAGAGA  
 AAACCAACAGGTCATCCTGATCACTGTTATGAGAGGAAACACGACAATGAATAGTGAAGCTGTTAGT  
 GGTCTAAAAATTGAGAAACATTTTAGTGTAAACTGATTACCCGAGGCCTGTGCAGAGCAATAGCTTTG  
 GTTTCCAAATGGAGAGACAGCTCCGCCTCTGAAAGGAAGGCGCTAGGACCGATTAAGTCAAGCAGGACC  
 TGTACAGCTGTGCCCTACGATGATAAAATATTTTATAATAGTGGGCCAAAAGAAGGTCTGGGCCAATT  
 AAGCCTGAAAAGGTGATAGAATCATCTATTCTGTGGAGTATGCAAAAGTGTGGAACCTGGCGATGAAT  
 GTTTTGCACCTTTATTGGGAAGACAACAAGTTTTACCGAGCAGAAGTTGAAGCCTTGCACTTCTCGGGTAT  
 GACAGCGGTGTTAAGTTCACGGACTACGGCAACTATGAAGAGGTGCTACTGAGCAATATCAAGCCTGTT  
 CAGACAGAGGCATGGGTACGTGATCCAAATCTGTACAAAGGCTACTTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001253755  
**Insert Size:** 2151 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001253755.1</a></u> , <u><a href="#">NP_001240684.1</a></u>
<b>RefSeq Size:</b>	5762 bp
<b>RefSeq ORF:</b>	2151 bp
<b>Locus ID:</b>	219249
<b>UniProt ID:</b>	<u><a href="#">Q91W18</a></u>
<b>Cytogenetics:</b>	14 E1
<b>Gene Summary:</b>	<p>Scaffolding protein that specifically recognizes and binds dimethylarginine-containing proteins. In nucleus, acts as a coactivator: recognizes and binds asymmetric dimethylation on the core histone tails associated with transcriptional activation (H3R17me2a and H4R3me2a) and recruits proteins at these arginine-methylated loci. In cytoplasm, may play a role in the assembly and/or disassembly of mRNA stress granules and in the regulation of translation of target mRNAs by binding Arg/Gly-rich motifs (GAR) in dimethylarginine-containing proteins (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks two exons and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.</p>