

Product datasheet for **MC229200**

Tdrd5 (NM_001277730) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tdrd5 (NM_001277730) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tdrd5
Synonyms:	Gm103
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229200 representing NM_001277730
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAACAAGAGCGTATACAGGACTGTCTGAGGAAAGAGATAAGGTCCCTTCTATTCCACTAAGG
 ATGTTTTGACTCCACAACAGTTGGAAAAGGAGTACCTTTTGATGGTTGGCAACCATCTCCCGCTCCGAAT
 CCTTGATATCGGTCCACTATGGAAGTGGTGGTATGCCCCGATGTGGTTAGTGTCTGCCCGGTGGG
 GATGGTACCGTAATACTGAAAGCCATTCCAGACGAATCCACAAAGGAATAGCAAGTTTGGTTGCAAAGC
 AGAGAAGGAGCCATAAGGTCCGAACTCCATGCCAAAGGGAAGACCCAGCATATGCTCTGCCGGGTGCC
 TTACCGAGGAAGGGTGCCCAATTCTCCAGCTGTAGTGAAGAGATTCCAGTAATGAAGGCACACTTT
 TCACAACCCATTTCAAATATGGAGCCCCCAACAAGTACTGAGCATGGCGAAGACACCCACGTTTAATT
 CTGTGGAGGCTTCAAGGCTGAACCACACTGAAAAATTAATCAGTTGGAGACACATTCAAATCCGTGAT
 TGCACAGATTGGACCTGGAGGGACTGTTGATCCTGAGCTAAAGCGCAAGATACAATTTGCGTGTCTAAG
 TTTCCACAAGGTTTGTATTTCTAAACTGCTTGGAGAATTTGAGCTAACTTTTAAAGAGCAACTTTCAC
 CAAAACAATTAGGGTTCTTAAACGTGACAGAATTGTTGGCGCTCTTAGTGACATTCTCCGAGTTGAGTT
 CAGTGAAGAAAGGCAAGACTTGCTCGTGTGATGCTGACCTGAAGCCTCTGCCGTCTGGTGGACCGCTT
 TCATCAGTCAGAAATTCGTGTTAGTTCACCAGACAAGAAAACAGAAGCTAACCCCTGGACTTCCAGTC
 TCTCCAGAAATCACTATCCACTGTAGCAGTTAAGAAGACCACGTGGGATTGCCCTTGAAGAACCAGAA
 GGAGCCAGAACAGAAGATATAACAAGAAGCCTAATCTGGTGGTCAAGCCTCTGCAGCTGCAGGTAGAAACA
 AACAAACCGCAGCTCAGCCTGTCAAGTGGCAAACACGATATCCACCAGACGCTGTGCGTCCAAGAAAT
 TGTGCAGACTTCTCCATTAGATACCAGCACCTTGTGGGGTCTCTGTTGAGTATATAATCTCCCTAG
 TCAGTTCTACATCCGGATCTACAGCAGAGATTCTCAGAACTACTTGAAGACATGATGATTGAAATGCGA
 CGCTGCTACTCCAACAGCTGGTCTCTGACCGGTACATTATGCCAGAATTTTTATAACAACCAGGACATC
 TCTGTTGTGTAAGATCTCTGAGGACAAGTGGTGGTACCGGTTATTATCCATCGGATCCTTGGGAAAAA
 GGAAGTGGAAAGTGTCTACCCAGATTTCCGAAATATCGGAACTGTGCAGAAGTCTCGTGGAGTTCTCTC
 AAATGCTGCTACACAAAGCTTCCAGCTCAGGCTATCCCTGTCTTTGGCGTGGGTGAGGCCCGCAGAGG
 AACACTGGACAGCCAGAGCTATTTGCACTTCCAGAAGCTGTGTGGTTTGAAGCCATTGGTGGGGTGGT
 GGATGAGTATATAGACGGAATCCTTAATATTTTCTTTGTGATACGTCTCAAATGAAGATGTGATTTT
 CATCATGTCTTGAGGACAGAAGGCCATGCTATTGTATGCCGAGAAAATGCCCCATCAAGGGCTTACGGG
 ATTTCAACCCACAGCTCTGTACTACTAACGCCAGCTCAGCGGGGACATGGTCTGACAGACCTGGGGCA
 TCTGCTCAGCAGCACTATTTAAATGAAGACCAGGAGATACTGCAGCAAGCCAGCAAGATTAATGAT
 GGAAAGTGTATAAGTTACCTTAAATCTGCGCCCAAGGAATTATTAAGGATTCTAAATGAGCTCATTGA
 AAACACATAAGAGCTGTGAAGAGGACCCACGGTGGTCCATCCTGCAGCCCAAGGATCTGAAGGAAGAAA
 TGAGGATGAGGTCCCTACTGGAATGCCATGCCTGGAGTCAGTGACCATAGGTGACGATGTTTGGGATGAG
 AACTGGCTCCCTCTACAGGCCAAAATGGGAAGGCAGGGAGTCTGCCTCCAGCTGTTTACTTCAAACC
 TTGTTGGGAAGAAACAATATCAGACAGGTGGAGAAATGGCACAAAAGGACTGGTGTCTTCTACATCTAA
 AGATATATGGGATGATTCTGGCAGCCCTTAGGCCTTGCGAATGATGTGAAAGGAGGAATTCACACACCA
 GAAGGGCCATTGCTCAAGAAAAAATACCAGCACAACCCGAATTC AACAGCAGCCAGATTTACAGTATC
 CTTTGGATTCTTCCACTGCCCCAACTGGAAGAGTTCTACATCTCTGATCAAGTCTCAGCAGTCCGC
 AGAGAGGAGCCAGTCTGAACCTGCCAGCATTGAGACTCATGCCGACGGGACGCTCAAAGCACTCAGT
 TCAACCCCTGCAGTGGTGACTCTCCAGAAAACCACTCTGGCTCTGTGAAAGCTCTCCAGGGAGCCTAA
 AGAAAGAAGATGTTTCTAATAGCCGTGCTGAAGCCACGGCCAAGGACAAGAGTCAGGGAGCCATAGACCA
 GCTCTCTTTCAATTTGTCACCCAGCAGATTTCTCAGAAGCTCTACATCCCTCGAAGTACAGCCACA
 GCTGTCTTGGAGCTGCGGCACGGTTAGCCACGTCAGGAGCCTCTGCACTGGTACCCAGTGTGAAAG
 GAGGGAAGCTTGAGGCAGAGAGATGGAGTGAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN:	NM_001277730
Insert Size:	2838 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001277730.1</u> , <u>NP_001264659.1</u>
RefSeq Size:	3168 bp
RefSeq ORF:	2838 bp
Locus ID:	214575
UniProt ID:	<u>Q5VCS6</u>
Cytogenetics:	1 G3
Gene Summary:	<p>Required during spermiogenesis to participate in the repression transposable elements and prevent their mobilization, which is essential for the germline integrity. Probably acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Required for chromatoid body (CB) assembly.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, and uses two alternate splice sites that result in the loss of an in-frame segment in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>