

Product datasheet for **MC223333**

Tdrd5 (NM_001134741) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tdrd5 (NM_001134741) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tdrd5
Synonyms: Gm103
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223333 representing NM_001134741
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTGAACAAGAGCGTATACAGGACTGTCTGAGGAAAGAGATAAGGTCCTTCTTATTTCCACTAAGG
ATGTTTTGACTCCACAACAGTTGAAAAGGAGTACCTTTTGATGGTTGGCAACCATCTCCGCTCCGAAT
CCTTGGATATCGGTCCACTATGGAAGTGGTGGATATGCCCGATGTGGTTAGTGTCTGCCCGGTGGG
GATGGTACCGTAATACTGAAAGCCATCCAGACGAATCCACAAAGGAATAGCAAGTTTGGTTGCAAAGC
AGAGAAGGAGCCATAAGGTCCGAAACTCCATGCCAAAGGGAAGACCCAGCATATGCTCTGGCCGGGTGCC
TTACCGAGGAAGGGTGCCCAATTCTCCAGCTGTAGTGAAGAGTGAGTTGAAAGACCTTTTGGCATTG
TCTCCGTTCTCCTTTGACTTTGAAAAGGCATTTGCCAGGCGTTTTGGACGATCATTTTCAGTATATGC
AGTATGGATTCTCTCTATGTTGAAAGTGTGAATGCAGCTTCGGATGTCATTTCTGTAGAGCAGACCAG
AGCAGGTTCTCTGTTGACACTAAAAAGAGTGTATCAGAGGACAAGCAGAGAGGATGGCCAGCAGTAAA
GTTTTTACTCAGCCATTTAGAATGAAACAACAGGGGTCAATTCTACAGGATCCCAGTAATGAAGGCAC
ACTTTTACAACCCATTTCAAATATGGAGCCCCCAACAAGTACTGAGCATGGCGAAGACCCACGTT
TAATTCGTGGAGGCTTCAAGGCTGAACCACACTGAAAAATTAATCAGTTGGAGAGCACATTTCAAATCC
GTGATTGCACAGATTGGACCTGGAGGGACTGTTGATCCTGAGCTAAAGCGCAAGATACAATTTGTCGTGT
CTAAGTTTCCACAAGTTTGTATTTCTAAACTGCTTGGAGAATTTGAGCTAACTTTTAAAGAGCAACT
TTCACAAAACAATTAGGGTTCTTAAACGTGACAGAACTGTTGGCGCTCTTAGTGACATTTCCGAGTT
GAGTTCAGTGAAGAAAGGCAAGACTTGCTCGTGTGATGCTGACCTGAAGCCTCTGCCGCTGGTGGAC
CGTTTTCATCAGTCAGAAATTCGTGTTAGTTCAACCAGACAAGAAAACAGAAGCTAACCCCTGGACTTC
CAGTCTCTCCAGAAATCACTATCCACTGTAGCAGTTAAGAAGACCACGTGGGATTGCCCTTGAAGAAC
CAGAAGGAGCCAGAACAGAAGATATACAAGAAGCCTAATCTGGTGGTCAAGCCTCTGCAGCTGCAGGTAG
AAACAAACAAACCGCAGCTCAGCCTGTCAAGTGGCAAAACACGATATCCCACCAGACGCTGTGCGTGCCAA
GAAATTGTGCAGACTTCTCCATTAGATACCAGACCCTTGTGGGGTCTTCGTGGAGTATATAATCTCC
CCTAGTCAGTTCTACATCCGGATCTACAGCAGAGATTCCTCAGAACTACTTGAAGACATGATGATTGAAA



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TGCGACGCTGCTACTCCAACCAGCTGGTCTCTGACCGGTACATTATGCCAGAATATTTTATACAACCAGG
 ACATCTCTGTTGTGTAAGATCTCTGAGGACAAGTGGTGGTACCGGTTATTATCCATCGGATCCTTGGG
 AAAAAGGAAGTGGAAAGTGTCTACCCAGATTCGGAATATCGGAACTGTGCAGAAGTCTCGCTGAGGT
 TCCTCAAATGCTGCTACACAAAGCTTCCAGCTCAGGCTATCCCTTGTCTTTGGCGTGGGTGAGGCCCGC
 AGAGGAACACTGGACAGCCAGAGCTATTTTGCACCTCCAGAAGCTGTGTGGTTTGAAGCCATTGGTGGG
 GTGGTGGATGAGTATATAGACGGAATCCTTAATATTTTCTTTGTGATACGTCTCAAATGAAGATGTGT
 ATTTTCATCATGTCTTGAGGACAGAAGCCATGCTATTGTATGCCGAGAAAATGCCCATCCAAGGCTT
 CAGGGATTTCAACCCACCAGCTCTGTACACTAACGCCAGCTCAGCGGGCGACATGGTCTGACAGACCTG
 GGGCATCTGCTCAGCAGCACTATTTAAATGAAGACCAGGAGATACTGCAGCAAGCCAGCAAGATATTA
 ATGATGAAAAGTGTATAAGTTACCTTAAATCTGCGCCCAAGGAATTATTAAGGATTCTAAATTGAGCTC
 ATTGAAAACACATAAGAGCTGTGAAGAGGCCACCGTGGTCCATCTGCAGCCCAAGGATCTGAAGGAA
 GAAAATGAGGATGAGGTCCCTACTGGAATGCCATGCCTGGAGTCAGTGACCATAGGTGACGATGTTTGG
 ATGAGAAGTGGTCCCTCTACAGGCCAAAATGGGAAGGCAGGGAGTCTGCCTCCAGCTGTTTACTTC
 AAACCTTGTGGGAAGAAACAATATCAGACAGGTGGAGAAATGGCACAAAAGGACTGGTGTTTTCTACA
 TCTAAAGATATATGGGATGATTCTGGCAGCCCTTAGGCCTTGCGAATGATGTGAAAGGAGGAATCACA
 CACCAGAAGGGCCATTGCTCAAGAAAAAATACCAGCACAACCCGAATTC AACAGCAGCCAGATTTACA
 GTATCCTTTGGATTCTTCCACACTGCCAAAAGTGAAGAGTTCTACATCTCTGATCAAGTCTCAGCAG
 TCCGCAGAGAGGAGCCAGTCTGAACCTGCCAGCATTAGACTCATGCCGACGGGACGCCTCAAAGCAC
 TCAGTTCAACCCCTGCAGTGGGTGACTCTCCAGAAAACACTCTGGCTCTGTGAAAGCTCTCCAGGGAG
 CCTAAAGAAAGAAGATGTTTCTAATAGCCGTGCTGAAGCCACGGCCAAGGACAAGAGTCAAGGAGCCATA
 GACCAGCTCTCTTCATTTTGTCCCCCAGCACCAGATTTCTCAGAAGCTCTACATCCCTCGAAGTACAG
 CCACAGCTGTCTTGGGAGCTGCGGCACGGTTAGCCACGTCCAGGAGCCTCTGCACTGGTACCCAGTGT
 GAAAGGAGGGAAGCTTGAGGCAGAGAGATGGAGTGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001134741

Insert Size:

3123 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).

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_001134741.1, NP_001128213.1
RefSeq Size:

3462 bp

RefSeq ORF:

3123 bp

Locus ID: 214575

UniProt ID: [Q5VCS6](#)

Cytogenetics: 1 G3

Gene Summary: 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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).