

Product datasheet for MC229440

Tdrd1 (NM_001002241) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tdrd1 (NM_001002241) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tdrd1
Synonyms: MTR-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229440 representing NM_001002241
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGCCACGGAATAATTTGGAAGCCTCTACTTGTAATGGCAGAGCCATTTAATTTGAGAAGAAGG
 AAAGCAAGCCCCGCCCCAGGACCCTCTCAGAAGTCTGTAGCACAGCATAACCACCCACCTTCAGGCT
 GAAAAGCCAGAGAACGGGAATACAAGAACAACCTTTTGTGTTGTAACAAAACAAACAGTATTTAGCT
 AGTCAGGAGGACAGTTCCGGTGGTCTCTTCAAACCTGCTGTTGTCAATGGAGAAGTCGGTGGTCCAAAG
 GAGACAGGAAGCCGCCACCAACAGGAAACCCAGTGTCAACATTAAGTCTTGGAAACAGTTCACCTCTAA
 CCAAGTAAAACTAAGCCAGCAGTAATGTGACTCCTGAAAAATCAAAAAATCTCACAAGTTGTTTGAG
 AATGCCTGTCCGTAATAATCCAGCACTCTTCAACTCGTTAGGACCGCCCTTCGGTCAACAACCTGCC
 ACCGCTGTGGCCTGTTGGGTGCTGAGGTGCTCCAGTGCAAGCAGACGTAAGTGTCCACGGCCTG
 CCAGAGGAGAGACTGGTCTTCCACAGCACCATCTGTAGGCTGTACAGCAAAGTTGAACAAGCTTGA
 GATAATAAATCACCATTTGAAACAAAGGCCATTGAAGTGAAGAGTGAGGTTGACTGTCCCCGGGAGTTA
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 CATGGAGATAAAGGGTACAGTTACTGAATTCAGCACCCGAGTAACTTTTATATCCAGTTGATTCTTCA
 GAGTTCTAGAAAAATGAACCAACTCTCTACAAGCTTGAAGAGACATATGCAATGTGGTGCCTGAAG
 ATGTTATCTTCTGTTAAGGGGAAGTTGTGTTGCCAATACACAGTTGATCAGACCTGGAACAGAGC
 CATAGTACAAGCCGTGGATGTGCTGCAGAGGAAGGCCACGTCTGTACATTGACTATGGGAACGAGGAG
 ATGATCCCAGTACAGCGTTCACCCGCTGAGCAGAGGCCTTGACTTGTTTCTCTCTTCTGCCATAAAGT
 GCTGTGTGTCAGGCGTATTCCCACTGCGGGCAGTGGAGTGAAGGCTGTGTTGCAGCTGTCAAGCCCT
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 GACCTTGTCTACAGAGCTCAGAAAGCAGCTGGACCATGTGCTGGTGGAAATGGGGTATGGAGTGAAC
 CCGGTGAGCAGAGCTCCACGGAGCAGAGTGTGGACCACAGTGCATTGGAGGACGTTGGAAGAGTGACAGT
 TGAGAGCAAGATTGTGACAGACGAAATGCCCTGATCCCCAAAGTGTGACTTTGAATGTGGGTGATGAG
 TTCTGTGGCGTGGTTGCCACATCCAGACACCAGAGGACTTCTTTGTCAGCAGCTGCAGAGCGGCCACA



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AGCTTGCGGAGCTTCAGGAATCCCTCAGTGAATACTGTGGCCATGTGATTCCACGCTCTGACTTTTATCC
AACCATTGGGGACGTGTGCTGTGCTCAGTTCTCAGAGGATGATCAGTGGTACCGCGCCTCGGTTCTGGCC
TACGCTTCTGAAGAATCTGTCCTGGTTGGATATGTCGATTATGGGAACCTTGAGATTCTCAGTCTGAAAA
GACTTTGTCCATAATCCAAAGTTGTTGGATTGGCCGATGCAAGCTCTAAATTGTGTGCTGGCAGGCGT
GAAGCCATCATTAGGAATTTGGACTCCAGAAGCTGTGTGTGTATGAAAGAGATGGTACAGAACAGGATG
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TGGGTGGAGTTCACTGTTGACGAGACCGTGGATGTGGTGGTCTGCATGATGTACAGTCCCAGGGAGTTCT
ACTGCCACTTTCTAAAGATGATGCCTTAGAGAAGCTCGATGACTTGAATCAGTCCTTAGCAGACTACTG
TGCACAAAAGCCGCCAATGGCTTTAAGGCAGAGATAGGGCGGCCTTGTGTGCCTTTTTTTTCAGGTGAC
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GGTCTTAAGGTGTGGTTCACCACAGGACTCACTGATGAGCAGACCTGCTAATCAACATAAGCAGATCGAC
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TAGCAGCAAAATGTACTAGAGATCATAAGCCCAGCCTTGTCTACGCCATCCCCAGTGAATGTCAGAAAA
TCAAGAGAAGCTGTGTGTGTAGCAGCTGAATTGTTAGAACACTGTAATGCTCAGAAGGGCCAGCCAGCC
TACAGACCACGGACCGGCGACCGGTGCTGTGCTAAGTACACAAATGATGACTTCTGGTACCGGGCCATTG
TTCTGGAACGTCGGAATCTGATGTGAAAGTTCTCTACGCAGATTATGGAACATCGAAACCTGCCTCT
TTCCAGAGTGCAGCCCATCCCAGCCAGCCACTGGAGCTGCCCTCCAGATCATTAGATGCTCACTAGAG
GGGCCGATGGAGCTGAATGGAAGCTGTTCCGAGTTAGTGATGGAGCTGCTGAGAAATGCCATGCTGAACC
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GAACGGAATGATCAATATAGCTGAGAATCTGGTGTGTGGCCTGGCAGAAAACCTCACTTCTAAAAGG
AAAAGTGTCTCCACTAAAGAGATACCACACAGCAGAGACTGCTGTTGCACAGAGTTACAGAAACAGATTG
AGAAACACGAACAGATTCTCTCTTCTTAAACAATCCAACCAACAAAGTAAATTCACAGAGATGAA
AAAGCTGCTGAGAAGTAA
    
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ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAAGGTTAA
    
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- Restriction Sites:** SgfI-NotI
- ACCN:** NM_001002241
- Insert Size:** 3519 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:

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_001002241.2](#), [NP_001002241.1](#)

RefSeq Size: 5187 bp

RefSeq ORF: 3519 bp

Locus ID: 83561

UniProt ID: [Q99MV1](#)

Cytogenetics: 19 D2

Gene Summary: Plays a central role during spermatogenesis by participating in the repression transposable elements and preventing their mobilization, which is essential for the germline integrity. 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 governs the methylation and subsequent repression of transposons. Required for the localization of Piwi proteins to the meiotic nuage. Involved in the piRNA metabolic process by ensuring the entry of correct transcripts into the normal piRNA pool and limiting the entry of cellular transcripts into the piRNA pathway. May act by allowing the recruitment of piRNA biogenesis or loading factors that ensure the correct entry of transcripts and piRNAs into Piwi proteins. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) represents the longest transcript. All four variants encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.