

Product datasheet for MC211269

Tdrd12 (NM_028034) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tdrd12 (NM_028034) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tdrd12
Synonyms: 2410004F06Rik; 2410070K17Rik; ECAT8; EG434165; G1-476-14; repro23
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC211269 representing NM_028034
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTTCGAGGTCCTGGTCTGAAGATTGAAGATCCAGGTTGCTTCTGGGTAATTATAAAAGGATGTAGTC
ATTTTTAGAACAAAGAAGTTGACTACCAAAAACCTAAACACTGCCATGAATGACTTCTATAACAGCATGTG
TCAGGACGTAGAAATGAAACCATTAATGCTGGAAGAAGGGCAGGTGTGTGGTGTACTGCCAGGAGCTG
AAGTGCTGGTGCAGGGCTCTGATTAAGTCCATCATCTCTTCTGCAGACCATTACCTGGCAGAGTGTTC
TGGTCGATTTTGCCAAGTATATCCAGTAAAATCTAAAAACATCCGAGTTGCAGTAGAGTCTTTTATGCA
GCTTCCTTACAGAGCAAAAAATTCAGACTTTACGGTACAAAAGCCTGTGACATTGCACATTGACTTCTGT
GAAGACAATGCTGAGATTGTACCTGCCACAAAATGGGACAGTGCAGCCATCCAGTACTTTCAGAACCTTC
TAAGAGCAACTACCAAGTGAAGCAAACTATGTGCGGTGGAAGAAGATACTTTTGAGGTTTACCTTTA
TGCAACAATAAAAAATGAAAAAGTTTGTGTTAATGATGACCTAGTTGCAAAGAATTTTGCTTATTATGTG
TCACCAATGGGAATAAAAACTCAATCCTTTGGAGAAACCCAGGCAGAGTCTCAATTCGGTGACCTGCT
CCAGTAAGCTCAGCCATCACTTACTCTGTGGCAATGCTTCTACAAGGAAAAGACTATCACAGAATGGA
AAATAAAGCTCTAAACTATAAGGATTCCTTGACAGACTCGCCTAAAATGATGCTTGAGAAGCAGCAGCAG
AGCCTCCCTTTAAAGCACACGGAGAAGTACTGAATCTTCTGTGTACTGGCCAACCAAAAGAGGCATAA
CCATATATGCTGATCCAGATGTTCCATCAGTAAGTGGTCTAGCCAGAGGCCGAATGAGAAGCCACTGCG
GTTGACTGAAAAGAAAGACTGTGACGAGAAGAACGGCTGTGAAAATTACTGCAGTTTCTAAATCCTGAT
CCTTTGAGAGCTGATGGACCTCAGACCTGCACCAGTTGCAGAAGGTGAAGCTGGGCACACTGCAGCCTG
GGTGGTCTCCGGAACAGGATCGAGCCCTGCCTAACCTGGAGAAATCACCTCTGTCGGCAGACCTGAA
GAAGGTGAACATGTTCTTAAAGCCAGACTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

| | |
|-------------------------------|--|
| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_028034 |
| Insert Size: | 1224 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: | <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: | NM_028034.2 , NP_082310.1 |
| RefSeq Size: | 1621 bp |
| RefSeq ORF: | 1224 bp |
| Locus ID: | 71981 |
| UniProt ID: | Q9CWU0 |
| Cytogenetics: | 7 B2 |
| Gene Summary: | Probable ATP-binding RNA helicase required during spermatogenesis to repress 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 (PubMed:24067652). Involved in the secondary piRNAs metabolic process (PubMed:24067652). Acts via the PET complex, a multiprotein complex required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs (PubMed:26669262).[UniProtKB/Swiss-Prot Function] |