

## Product datasheet for **MC202395**

### Tdrkh (NM\_028307) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tdrkh (NM\_028307) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tdrkh  
**Synonyms:** 2700091C21Rik; Tdrd2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC057030 sequence for NM\_028307  
 CGACAGGGCGGCGGGCGGGGGTGGAGTGCAGGCGAAGCGCAGAGCGCAACTCTGGAGGAGCGGAT  
 GTTAAGTCAGAGTACAACAGAAAAATGTCCACTGAACGAACCTTCATGGACAAACCTGTCCACTATTCAGAA  
 AATAGCCCTGGGCTAGGAATTCAGCAAGTGCAACAGTTGCCTACATTCTGTATCGTATATAGGGAA  
 AGCAGAGAAGAGAGATTGACATTTGTTGGAGAAGATGACATTGAGATAGAGATGCGAGTCCCCCAGGAGG  
 CTGTGAAGCTCATCATTGGTCGACAAGGAGCCAATATTAACAGTTGCGGAAACAGACAGGCGCGGGAT  
 TGATGTGGACACAGAGGATGTAGGCGATGAGCGAGTGCTGCTTATCAGTGGGTTTCTGTTCAGGTGTGC  
 AAGGCCAAAGCAGCAATCCATCAGATTCTGACAGAAAACACCCAGTGTTTGGCAACTCTCAGTCCCTC  
 AGAGATCTGTGGCAGAATCATAGGGAGAGGCGGTGAGACGATTCGTTCTATCTGTAAGGCTTCTGGAGC  
 CAAAATCACTTGGCACAAGAATCAGAGGGAACGTTACTACTCTCAGACTTATAAAAATCTCAGGAACA  
 CAGAAGGAAGTGGCAGCAGCTAAGCATCTGATACTGGAGAAAGTTTCAGAAGATGAAGAACTTCGGAAGA  
 GAATTGCCATTCTGCAGAAACCAGAGTCCCACGAAAGCAGCCAATCAGTGTGAGAAGAGAGGAAGTGAC  
 AGAGCCTGGTGGAGCTGGAGAAGCAGCTTTATGAAAAATACCAATTCTAGCATGGGACCAGCTACACCC  
 CTGGAAGTTCTCTCCGCAAAGGAGGTGGTGATATGGTTGTTGTAGGACCAAAGAAGGTTCTGGGAGA  
 AACCTAATGATGACAGCTTTCAGAAATCTGGTGCCAGAGCAGTCCAGAGACGTCATGTTTGAATTC  
 CAGTCCTGACTTCAGTTTCCATGCTGATGAGTACCTAGAAGTCTACGTTTCTTCTCTGAACACCCTAAT  
 CACTTCTGGATCCAAATCATTGGTTCCCGCAGCCTGCAGTTGGATAAACTTGTGAGTGAATGACCCAGC  
 ACTATGAGAATAGTCTGCCTGAAGACTTGACTGTGCATGTAGGAGACATTGTAGCAGCACCTTTATCTAC  
 AAATGGTTCTGGTATCGAGCCCGGTTCTTGGAACTTGGAAAATGAAAACCTTGGACCTCACTTTGTT  
 GACTTTGGAGATAATGGAGATTGTGCACTAAAGGATCTCAGGGCTCTCAGGAGTGACTTTCTAAGCCTCC  
 CATTTCAAGCAATAGAATGCAGTCTGGCACGGATTGCCCCACAGGTGAAGAGTGGGAAGAGGAAGCTCT  
 AGATGAGTTTGCAGACTCACTCACTGTGCTGACTGGAAGCCCTGGTGGCAAGATTTCTAGCTATGTC  
 CAGACTGGAATCTCAACTGGCCAAAGATCTATTTGATGATACCAAGTGTGAGAAGAACTTGATATTG  
 GGCTAGAATTAGTTTCGTAAGGGTATGCAGTTGAACTTCTGAAGACATGGAAGAAAACAGAACTGTCCC  
 AAATATGTTGAAGGACATGGCCACAGAAACAGATGATTCTTTCGAAGCATACTCACTGAAACAAAAAAG  
 AGCCCTGAAGAGATGCCACATACCCTGTCTGCCTCAGCTTGTGAGAAGTGCCTCTATGTCTGGTGATG  
 ATAACCTGAAGACGACTTATTCTGAAATCTGGGCTTCAGCTGCTGGATCAGCCATCTGCTTTGCTGTGA



[View online >](#)

```
TGTGGTGCCGAGAGAGGAGTCTATGATAGAGAGATCCATGAAGTCTTTACTTCACATGGTGTGGCTTGC
TGTGAATCAAATCCATTTTTGTTTCATTGGATCTACCAGAAAGTAACAGACGGAGGCAAATGGAGACAG
ATTTCTCCACTCCACTCCTCTGGTTCTCCCTATCTTTCAATGTTTGAATGCTGTATAATCCCAGCCT
CTCCATATCAGGTTCAAGTCCCTCTGCCAGTAATTTTGCATTACTGCTGGGCTATGTTTTGAGGCTG
AGAAACAGCCAAGGTTTGGGCATTGGAAGTGATGATTCTGCAGATTTCTGACTCGACTTATCAGGTGACT
GTAGTTATAGGAAGTATTTGGTGGACTCAGAAGACTGCAGTTATCAGGAGATAAGGCAAAATCAGCATAA
CTATATTTAAAAGCCTCATAAAAAGGGGAAGAGTACTACTCTCACCCACAGTTGCCGAGGTTATTGGA
GATGGGTCTCCAGCTATTTCTTTGTGAAGTTCAGTTAAAATACAAC TAGAAGGGAGAAGTATCTTAGGA
AATGTGTAACCGTGTACAAATATGTGTCTGTATACACACAAC TAGAGAGAAAAGTGAATATATATAGT
TCTGCTTAAATAATTTGGGGAATGTTTGCTAATAAAGTCTCAAAAATTATCTAAAAACACATACTCAGT
CACAACGTGGGAGTAGGCCTGTGGGTAAAGTCTTCTGAGTAAGCCTTGGTAGTAATTGCCAGCACCTC
ACATACGGAAGCATCTTGAGACAAATGCCTTCCCATACAAGTATTCACACTCTTCCCGTAAAGTCACTG
CAGAAGTCCACTACTCCCTCAGAACCATAACCAGTTTTAGCTATATACACAAACCTACTTACACTGTAAG
AGAAGGCCTGACTAGGGTTCTAGAAGTAGGTCTTCACTATAAACTTACTTTACTTCTAGTGTCTTTTCA
TTACTGACAGTAGTGCAAGACCACTGAGACTTGTGACAGTACTTAGAATTAATACAAAATGCATAGT
GATTTAACGAACTTTAGGAAACAAGGCAAGGTGAAGTGGGAAATCTAAACTGAACACATGGATGCCTTAT
ATAGGCTTCTCTAAACTCTAGTATTAGTAGCCATGCCTGGTGTCCCAGACCTATACCCAGCCTTTGAGGC
TAGTGAGAGAGAGTGAAAGTTAAAGGCCATGCCTAAGCAACTTAGTAAGATGCTATCTCAAAAAGAGGCT
AGGGGTGTAGCTAGTGGTATAGTGTAGCACTTGTGTCAATTTGCAGCATGCCAAGTTAGCAGAAAAGACATC
AAGGAAGGAGCAGTTTGAGCATCTTTACTCTAGAGAAACCTAGACAGGCCCTATTAATGTTCCAGGT
TCTGACTGTAGTGAACCATTTAAGTGTGTTCCAGCCAGGCATTGGAGTTACTACACAACAGACTCTGGAGG
CCATTTTGTCTAGTTTCCCTCGGTGCTTTTTCCCTCAGTTAGAGGTCATAAGACCTGTAGTTAATTGT
GTAAAAAGCCTATTTAAACCAATTGTGTGGGACTGGAAAGATGCTCAAAGGTTAAGAACACTGACTGCTC
TTGTAGAAAACCCAGGTTCAATTCTCACCCACATGGTGACTACAACCATCTTTAATTCTAGTTCT
AGGGGACCTAGTTCTCTTCTAACTTCTAACCAGGTATGCATATGGTATACATATACATGTAGGCAA
AACATTCTACATGTCTAAAATTTGAGAATAAAATTTTGAATAAAATATGGTACATACCTAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA
```

**Restriction Sites:**

Ascl-NotI

**ACCN:**

NM\_028307

**Insert Size:**

1683 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:**
[BC057030](#), [AAH57030](#)
**RefSeq Size:**

3664 bp

RefSeq ORF: 1683 bp

Locus ID: 72634

UniProt ID: [Q80VL1](#)

Cytogenetics: 3 F2.1

**Gene Summary:** Participates in the primary piRNA biogenesis pathway and is required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for the germline integrity. The piRNA metabolic process 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 the final steps of primary piRNA biogenesis by participating in the processing of 31-37 nt intermediates into mature piRNAs. May act in pi-bodies and piP-bodies by transferring piRNA precursors or intermediates to or between these granules.[UniProtKB/Swiss-Prot Function]