

Product datasheet for **MR231411**

Tdrd5 (NM_001277730) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR231411 representing NM_001277730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGAACAAGAGCGTATACAGGACTGTCTGAGGAAAGAGATAAGGTCCCTTCTATTCCACTAAGG
 ATGTTTTGACTCCACAACAGTTGAAAAAGGAGTACCTTTTGATGGTTGGCAACCATCTCCCGCTCCGAAT
 CCTTGGATATCGGTCCACTATGGAAGTGGTGGTATGCCCCGATGTGGTTAGTGTCTGCCCGGTGGG
 GATGGTACCGTAATACTGAAAGCCATTCCAGACGAATCCACAAAGGAATAGCAAGTTTGGTTGCAAAGC
 AGAGAAGGAGCCATAAGGTCCGAACTCCATGCCAAAGGGAAGACCCAGCATATGCTCTGCCGGGTGCC
 TTACCGAGGAAGGGTGCCCAATTCTCCAGCTGTAGTGAAGAGATTCCAGTAATGAAGGCACACTTT
 TCACAACCCATTTCAAATATGGAGCCCCCAACAAGTACTGAGCATGGCGAAGACACCCACGTTTAATT
 CTGTGGAGGCTTCAAGGCTGAACCACACTGAAAAATTAATCAGTTGGAGACACATTCAAATCCGTGAT
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 TTTCCACAAGGTTTGTATTTCTAAACTGCTTGGAGAATTTGAGCTAATTTTAAAGAGCAACTTTCAC
 CAAAACAATTAGGGTTCTTAAACGTGACAGAATTGTTGGCGCTCTTAGTGACATTCTCCGAGTTGAGTT
 CAGTGAAGAAAGGCAAGACTTGCTCGTGTTTGATGCTGACCTGAAGCCTCTGCCGTCTGGTGGACCGCTT
 TCATCAGTCAGAAATTCGTGTTAGTTCACCAGACAAGAAAACAGAAGCTAACCCCTGGACTTCCAGTC
 TCTCCAGAAATCACTATCCACTGTAGCAGTTAAGAAGACCACGTGGGATTGCCCTTGAAGAACCAGAA
 GGAGCCAGAACAGAAGATATAACAAGAAGCCTAATCTGGTGGTCAAGCCTCTGCAGCTGCAGGTAGAAACA
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 TGTGCAGACTTCTCCATTAGATACCAGCACCTTGTGGGGTCTCTGTTGAGTATATAATCTCCCTAG
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 TCTGTTGTGATAAGATCTCTGAGGACAAGTGGTGGTACCGGTTATTATCCATCGGATCCTTGGGAAAAA
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 AACACTGGACAGCCAGAGCTATTTGCACTTCCAGAAGCTGTGTGGTTTGAAGCCATTGGTGGGGTGGT
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 ATTTCAACCCACCAGCTCTGTACTACTAACGCCAGCTCAGCGGGGACATGGTCTGACAGACCTGGGGCA
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 GGAAAGTGTATAAGTTACCTTAAATCTGCGCCCAAGGAATTATTAAGGATTCTAAATGAGCTCATTGA
 AAACACATAAGAGCTGTGAAGAGGACCCACGGTGGTCCATCCTGCAGCCCAAGGATCTGAAGGAAGAAA
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 AGAGAGGAGCCAGTCTGAACCTGCCAGCATTGAGACTCATGCCGACGGGACGCTCAAAGCACTCAGT
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 GCTGTCTTGGAGCTGCGGCACGGTTAGCCACGTCCAGGAGCCTCTGCACTGGTACCCAGTGTGAAAG
 GAGGGAAGCTTGAGGCAGAGAGATGGAGTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231411 representing NM_001277730
 Red=Cloning site Green=Tags(s)

MSEQERIQDCLRKEIRSLLISTKDGLTPQQLKEYLLMVG NHLPLRILGYRSTMELVLDMPDVVSVCPGG
 DGTVILKAIPDESTKGIASLVAKQRRSHKVRNSMPKGRPSICSGRVYRGRVPPILPAVVKRFVPMKAHF
 SQPISNMEPPKQVLSMAKTPTFNSVEASRLNHTEKLNQLESTFKSVIAQIGPGGTVDPELKRKIQFVVS
 FPQGLFISKLLGEFELTFKEQLSPKQLGFLNVTENVGALSDILRVEFSEERQDLLVFDADLKPLPSGGPL
 SSVRNSCLVQPDKKTEANPWTSSLRNSLSTVAVKKTWDCPLKNQKEPEQKIYKPNLVVKPLQLQVET
 NKPQLSLSVANHDIPDAVRAKKLCRLPPLDTSTLVGVFVEYIIISPSQFYIRIYSRDSSELLEDMMIEMR
 RCYSNQLVSDRYIMPEYFIQPGHLCCKVISEDKWWYRVIHRILGKKEVEVFYPDFGNIGTVQKSSLRFL
 KCCYTKLPAQAIPCSLAWVRPAEEHWTARAILHFQKLCGLKPLVGVVDEYIDGILNIFLCDTSSNEDVYF
 HHVLRTEGHAIVCRENAPSKGFRDFNPPALYTNASSAGDMVLTDLGHPAQHYLNEDQEILQQAQQDIND
 GKICISYLKSAPEKLLKDSKLSLTKHSCEEDPRWSILQPKDLKEENEDEVPTGMPCLESVTIGDDVWDE
 NWLPLQAKMGKAGSPASQLFTSNLVGKKQYQTGGEMAQKDWCFSTSKDIWDDSWQPLGLANDVKGGIHTP
 EGPIAQEKNTSTTRIQQQPDLYPLDSSTLPKLEEFYISLIKSSQSAERSQSEPAIQTHAGRAASKALS
 STPAVGDSPENHSGSVESPPGSLKKEDVNSRAEATAKDKSQGAIDQLSFLSPQHQISQKLYIPRSTAT
 AVLGAAARLATSRSLLHWYPSVKGKLEAERDGVK

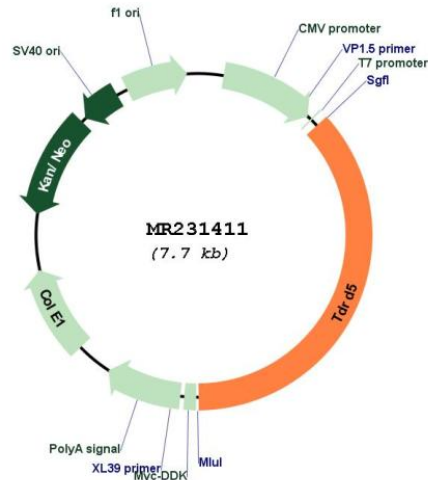
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001277730

ORF Size: 2835 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001277730.1](#), [NP_001264659.1](#)

RefSeq Size: 3168 bp

RefSeq ORF: 2838 bp

Locus ID: 214575

UniProt ID: [Q5VCS6](#)

Cytogenetics: 1 G3

MW: 105.8 kDa

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]