

Product datasheet for MR215884

Tdrd5 (NM_001134741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tdrd5 (NM_001134741) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tdrd5
Synonyms:	Gm103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215884 representing NM_001134741 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGAACAAGAGCGTATACAGGACTGTCTGAGGAAAGAGATAAGGTCCTTCTTATTTCCACTAAGG
ATGTTTTGACTCCACAACAGTTGGAAAAGGAGTACCTTTTGATGGTTGGCAACCTCTCCCGCTCCGAAT
CCTTGGATATCGGTCCACTATGGAAGTGGTGGGATAGCCCGATGGTTAGTGTCTGCCCGGTGGG
GATGGTACCGTAATACTGAAAGCCATTCAGACGAATCCACCAAAGGAATAGCAAGTTGGTTGCAAAGC
AGAGAAGGAGCCATAAAGTCCGAAACTCCATGCCAAAGGAAGACCCAGCATATGCTCTGGCCGGGTGCC
TTACCGAGGAAGGTGCCCCAATTCTCCAGCTGTAGTGAAGAGTGAGTTGAAAGACCTTTGGCATTG
TCTCCCGTTCTCCTTTCTGACTTTGAAAAGGCATTTGCCAGGCGTTTTGGACGATCATTTTCAGTATATGC
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AGCAGGTTCTCTGTTGACACTAAAAAGAGTGTATCAGAGGACAAGCAGAGAGGATGGCCAGCAGGTAAA
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ACTTTTCACAACCCATTTCAAATATGGAGCCCCCAACAAGTACTGAGCATGGCGAAGACACCCACGTT
TAATTCGTGGAGGCTTCAAGGCTGAACCACACTGAAAAATTAATCAGTTGGAGAGCACATTCAAATCC
GTGATTGCACAGATTGGACCTGGAGGACTGTTGATCCTGAGCTAAAGCGCAAGATACAATTTGTCGTGT
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AAACAAACAACCGCAGCTCAGCCTGTGAGTGGCAAACCAGGATATCCACCAGACGCTGTGCGTGCCAA
GAAATTGTGCAGACTTCTCCATTAGATACCAGCACCTTGTGGGGTCTTCGTGGAGTATAATCTCC



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CCTAGTCAGTTCTACATCCGGATCTACAGCAGAGATTCCTCAGAACTACTTGAAGACATGATGATTGAAA
 TGCAGCGCTGCTACTCCAACCAGCTGGTCTCTGACCGGTACATTATGCCAGAATATTTTATAACAACCAGG
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 CCACAGCTGTCTTGGGAGCTGCGCACGGTTAGCCACGTCCAGGAGCCTCCTGCACTGGTACCCAGTGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215884 representing NM_001134741
 Red=Cloning site Green=Tags(s)

MSEQERIQDCLRKEIRSLLISTKDLGTPQQLEKEYLLMVG NHLPLRILGYRSTMELVLDMPDVVSVCPGG
 DGTVILKAIPDESTKGIASLVAKQRRSHKVRNSMPKGRPSICSGRVPYRGRVPPILPAVVKSELKDLLAL
 SPVLLSDFEKAFARRFGRSFQYMQYGF L SMFEVLNAASDVISVEQTRAGSLLTLKKSVEDKQRGWPAGK
 VFTQPPRMKQQGSYSTGFVPMKAHFSQPISNMEPPKQVLSMAKTPTFNSVEASRLNHTEKLNQLESTFKS
 VIAQIGPGGTVDPELKRKIQFVSKFPQGLFISKLLGEFELTFKEQLSPKQLGFLNVTTEL VGALSDILRV
 EFSEERQDLLVFDADLKPLPSGGPLSSVRNSCLVQPKKTEANPWTSSLSRNSLSTVAVKKTWDCPLKN
 QKEPEQKIYKKPNLVKPLQLQVETNKPQLSLSVANHDIPPDVAVRAKCLRLPPLDTSTLVGVFVEYIIS
 PSQFYIRIYSRDSSELLEDMMIEMRRCYSNQLVSDRYIMPEYFIQPGHLCCVKISEDKWWYRVIIHRILG
 KKEVEVFYPDFGNIGTVQKSSLRFLKCCYTKLPAQAIPCSLAWVRPAEEHWTARAILHFQKLCGLKPLVG
 VVDEYIDGILNIFLCDTSSNEDVYFHHVLRTEGHAIVCRENAPSKGFRDFNPPALYTNASSAGDMVLTDL
 GHPAQQHYLNEDQEILQQAQQDINDGKCSYLKSAPKELLKDSKLSLTKHSCEEDPRWSILQPKDLKE
 ENEDEVPTGMPCLESVTIGDDVWENWLPLQAKMGKAGSPASQLFTSNLVGKKQYQTGGEMAQKDWCFST
 SKDIWDDSWQPLGLANDVKGGIHTPEGPIAQEKNTSTTRIQQPDLYPLDSSTLPKLEEFYISL IKSQQ
 SAERSQSEPA SIQTHAGRAASKAL SSTPAVGDSPENHSGSVESPPGSLKKEDVSNRAEATAKDKSQGAI
 DQLSFILSPQHISQKLYIPRSTATAVLGAAARLATSRSLLHWYPSVKGKLEAERDGVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9098_b01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001134741

ORF Size: 3120 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_001134741.1](#), [NP_001128213.1](#)

RefSeq Size: 3462 bp

RefSeq ORF: 3123 bp

Locus ID: 214575

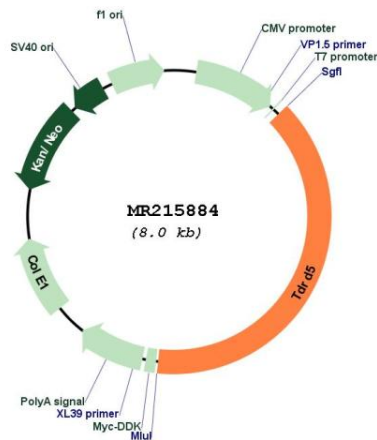
UniProt ID: [Q5VCS6](#)

Cytogenetics: 1 G3

MW: 116 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]

Product images:



Circular map for MR215884