

## Product datasheet for MR231597

### Tdrd7 (NM\_001290475) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tdrd7 (NM\_001290475) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tdrd7  
**Synonyms:** 5730495N10Rik; AI447470; PCTAIRE2BP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR231597 representing NM\_001290475  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGAGGAGCCAGCAGTCTACAACCCAGAGGAGGGTCTCAGCAGAACCGGACCAAGCTGGCACCCGGATC  
 CTGGACTTTCAGCCTCCAGAACCGCAAAGATGCTGGAGGCAGATCTGGTTTCAAAGATGCTAAGGGCTGT  
 CCTGCAGTCTCATAAGAACGGGATCGTATTACCCCGTCTCCAAGGAGAGTACCGATCTTTGACTGGAGAC  
 TGGATCCCCTTCAAGCAGCTGGGCTACCCTACTTTGGAAGCCTACCTGAGAAGCGTGCCAGCAGTTGTCA  
 GGATAGAGGCTAGTAGATCTGGAGAGATCGTCTGCTATGCAGTAGCCTGCACAGAACTGCAAGGATCGC  
 TCAGCTTGTGGCTCGTCAAGGACCTCTAAAAGGAAAATAGGGCGACAAATTAATTGTCAGATGAGAGTG  
 AAGAAAGCCATGCCGTTCTTTCTAGAAGGAAAGCCAAAGGCAACTCTCAGACAACCCAGGATTTGCCCTCAG  
 ATTATCCATCAGCAGGAAACCTAATTCAGCGCTGTTAAGAGACAGAGGAAGCGCCTTGGGAGTTAAGGC  
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 TTCAGTCCAAAGTCATCCTTGCCAGCGTCTTCCAGACACACATCTCAAGGGCCTGCCCTACGGAAGTCA  
 ATGATAATTTAAATCAGACTGTTGAGAAACCAATATCACGCCTCCTGCCTTTACACTAATAAGATGGA  
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 CATTTTTACAAAGAGTTTTATAAAGAAGACCTTAACCAAGGAGTTTTACAGCAGTTTGAACACTGGCCTC  
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 CCATCCCAAGGGAGCCAGCAGTGTGCCAGATGTCAAGGAGAAAGTGGCAGAACTGCTGGGCAAGTACT  
 CAAGTGGCCTTTGGGCAAGTGCCTCCCAAGCATTGAGGACATGTACAAAGTCAAGTTCCCTGAGGA  
 TGCCTTAAAAATCTCGCCTCGCTCTGTATGTGTGCACCATAAACTACATTTCTGGAAACCCAGAAG  
 GCAATTCTCTATCGAACTCCCATGCCCAGTACAAGATCTTAAAGGATGAAGGGCAGGCACAAGGAG  
 ATTTTGACATCAAGTCGATGATTGAACAAGAGATTTGCAGATAGAAAAAATCATGGCTGAAAGTGTGA  
 TGAGTTTCTGGAGACATAACTGTGCCCTCTGGTAATTCCTACCGAGGCTCACCGTCTGTGTTGGT



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GTTGAGCTGAGCAACACAAATGATGTGGTTATCAGGTATGTAGGCAAAGACTACTCAGCTGCTCAGGAAC  
 TGATGGAGGATGAGATGAAGGAGTTTTACAGTAAGAACCCAGAGTCACACCGATCCAGACTGTGCACGT  
 GGGGCAGCTGCTGGCAGTCAATGCAGAGGAGGATGCCTGGTTGCGAGCACAGATCATTTCCACGGATGAG  
 AACAAAGATAAAGGTGTGCTATGTTGACTATGGCTTTTGTGAAAACATTGAGAAGAGTAAAGCGTACAGAC  
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 TGATGACCCTGACCTTGTGAAGGCGGTGGAATCACTAACATGTGGGAAGATCTTTGCTGTGGAGACCTCG  
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 TCATAGCAGCCGTGCACTCGACGTTTCTGGACTCTGGCAATTCGACATCCGTGAAAGTGTGAGAA  
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 AACATCAGAAGGATGTGTTTCTGAGCGCGGTGTCTACTGCGGCCAGTTCCTGCAACAGGAATGGTGG  
 CACACCTGCTCCGGGCAGCCCTGCAGAGAGTCTCAGAAAGAGCCACCCAGAGGTTATCAAGAAGTCTGTC  
 CTGGACCATAACAGCTCTTCTCCTTGGAGGAACTGCCCTCCTGTCCACCTGTCAAGGTGAGGGGAAAC  
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 CCAATGGGCTGGTGTCTGTGACGAGCTGGACTCGGCAAGCATGAGCTCGTCAACATAAGGAAAGTGA  
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR231597 representing NM\_001290475  
 Red=Cloning site Green=Tags(s)

MRSQQSTTQRRVLSRTGPSWHPDPGLSASRTAKMLEADLVSKMLRAVLQSHKNGIIVLPRLQGEYRSLTGD  
 WIPFKQLGYPTLEAYLRSVPAVVRIEASRSGEIVCYAVACTETARIAQLVARQRTSKRKIGRQINCMRV  
 KKAMPFFLEGPKATLRQPGFASDYSISRKPNALLRDRGSALGVKADVDMPPYPDTPVQRHASMSANSR  
 FSPKSSLPASFQTHISRACPTVEVNDNLNQTVEKPNITPPASYTNKMDDEVQNRRIKILDKHNNGIWI  
 SKLP HFYKEFYKEDLNQGVLLQFEHWPHTCTVEKPCGGQDSL LYPARREQPLKSDQDPEKELPPPPAPKQEV  
 PSQGS PAVMPDVKEKVAELLGKYSSGLWASALPKAFEDMYKVKFPEDALKNL ASLSDVCTINYISGNTQK  
 AILYAKLPLPTDKILKDEGQAQGFDFIKSMIEQEYLQIEKNMAESADEFLEDITVPLVPIPTASPSVLV  
 VELSNTNDVVIRYVYVGDYSAAQELMEDEMKEFYSKNPRVPTPIQT VHVQQLLAVNAEEDAWLRAQIISTDE  
 NKIKVCYVDYGFENIEKSKAYRLNPRFCSLSFQATKCKLAGLEVLNDDPDLVKAVESLTCGKIFAVEIL  
 DKSDVPLVVL YDTSGEDDININATCLKAICDRSLQVHLQVDAMYTNVKVTNICSDGTL YCQVPCKGLNKL  
 NDLLHKTEDYFHCKHMTSEYFISLPFCGKICL FHCKGKWL RVEITNVHSSRALDVQFLDSGNSTSVK VSE  
 LREIPRFLQEMLAIPPQA IKCCCLADLPQSIGMWT PDAVWL RDSV LNCSDCSIKVTKMDET GKVAYVYL  
 FTPNNFPDPHRSINRQITNADLWKHQKDVFLSAVSTAASSPGNRRGGTAPGSPAESLRKSHPEVIKKS  
 VLDHTSSFSLEELPPP VHL SRSGEHMDVYVPVACHPGH FVIQPWQEIHKLEVLMEEMILYYSVSEERHIAV  
 ERDQVYAAKVENKWRVLLK GILTNGLVSVYELDYGKHEL VNI RKVQPLVDVFRKLPFQAVTAQLAGVKC  
 SQWSEEASMVFRNHVEKKALVALVQTVVEHTNPWDRKVVLYL VDTSLPDTDTWIHDFMSQYLLELSKVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001290475

ORF Size: 3357 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\\_001290475.1](#), [NP\\_001277404.1](#)

RefSeq Size: 3658 bp

RefSeq ORF: 3360 bp

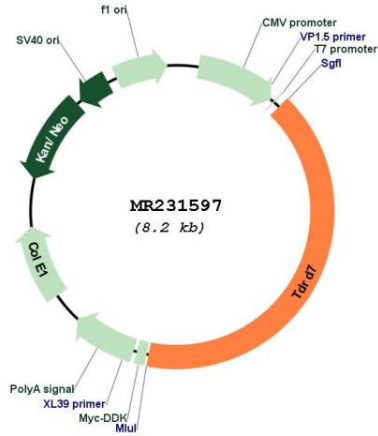
Locus ID: 100121

UniProt ID: [Q8K1H1](#)

**Cytogenetics:** 4 B1  
**MW:** 126.3 kDa

**Gene Summary:** Component of specific cytoplasmic RNA granules involved in post-transcriptional regulation of specific genes; probably acts by binding to specific mRNAs and regulating their translation. Required for lens transparency during lens development, by regulating translation of genes such as CRYBB3 and HSPB1 in the developing lens. Also required during spermatogenesis. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR231597