

## Product datasheet for **MG211611**

### Tdrd7 (NM\_146142) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tdrd7 (NM_146142) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tdrd7
Synonyms:	5730495N10Rik; AI447470; PCTAIRE2BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211611 representing NM_146142 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGAGGCAGATCTGGTTTCAAAGATGCTAAGGGCTGCTCCTGCAGTCTCATAAGAACGGGATCGTAT  
TACCCCGTCTCCAAGGAGAGTACCGATCTTTGACTGGAGACTGGATCCCCTTCAAGCAGCTGGGCTACCC  
TACTTTGGAAGCCTACCTGAGAAGCGTGCCAGCAGTTGTCAGGATAGAGGCTAGTAGATCTGGAGAGATC  
GTCTGCTATGCAGTAGCCTGCACAGAACTGCAAGGATCGCTCAGCTTGTGGCTCGTCAGAGGACCTCTA  
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CTCCAGTGCAGAGGCACGCGAGCATGTCTGCCAATAGCAGGTTCCAGTCCAAAGTCATCCTTGCCAGCGTC  
TTTCCAGACACACATCTCAAGGGCTGCCCTACGGAAGTCAATGATAATTTAAATCAGACTGTTGAGAAA  
CCAAATATCACGCCTCCTGCCTTACACTAATAAGATGGATGAGGTTCAAAACCGCATAAAGGAAATAT  
TAGACAAGCATAACAATGGCATTGGATATCTAAGCTCCACATTTTTACAAAGAGTTTTATAAAGAAGA  
CCTTAACCAAGGAGTTTTACAGCAGTTTGAACACTGGCCTCACATTTGCACGGTGGAAAAACCTTGTGGT  
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GAGTATTTGCAGATAGAAAAAACATGGCTGAAAGTGCTGATGAGTTTCTGGAGGACATAACTGTGCCGC  
CTCTGGTAATTCCTACCGAGGCCTCACCGTCTGTGTTGGTGGTTGAGCTGAGCAACAAATGATGTGGT  
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AGTAAGAACCCAGAGTCACACCGATCCAGACTGTGCACGTGGGGCAGCTGCTGGCAGTCAATGCAGAGG
AGGATGCCTGTTGCGAGCACAGATCATTTCCACGGATGAGAACAAGATAAAGGTGTGCTATGTTGACTA
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CCTTCCAGCGGTCACCGCTCAACTGGCAGGCGTGAAGTGCAGCCAGTGGTGGAGGAGGCTTCAATGCT
GTTTCGAAATCACGTGGAGAAGAAAGCCCTGGTGGCGTTGGTGCAGACAGTTGTTGAGGACACTAATCCT
TGGGACCGGAAAGTGGTCTCTATCTCGTAGACACGTCGCTGCCGACACTGACACCTGGATTCTGACT
TTATGTACAGTATCTGCTAGAGCTTTCGAAAGTTAAT
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211611 representing NM\_146142  
 Red=Cloning site Green=Tags(s)

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MLEADLVSKMLRAVLQSHKNGIVLPRQLQGEYRSLTGDWIPFKQLGYPTLEAYLRSVPAVVRIEASRSGEI
VCYAVACTETARIAQLVARQRTSKRKIGRQINCQMRVKKAMPFFLEGPKATLRQPGFASDYSISRKPN
ALLRDRGSALGVKADVDMPPYPDTPVQRHASMSANSRFSKSSLPASFQTHISRACPTVEVDNLNQTVEK
PNITPPASYTNKMDVQNRRIKILDKHNNGIWI SKLPHFYKEFYKEDLNQGVLLQFEHWPHTCTVEKPCG
GGQDSSLYPARREQPLKSDQDPEKELPPPPAPKQEVPSQGSAPVMPDVKEKVAELLGKYSSGLWASALP
KAFEDMYKVKFPEDALKNLASLSDVCTINYISGNTQKAILYAKLPLPTDKILKDEGQAQGDFFDIKSMIEQ
EYLQIEKNMAESADEFLEDITVPLVIPTASPVLVVELSNTNDVVIRYVGDYSAAQELMEDEMKEFY
SKNPRVTPIQTVHVGQLLAVNAEEDAWLRAQIISTDENKIKVCYVDYGFENIEKSKAYRLNPRFCSLSF
QATKCKLAGLEVLNDDPDLVKAVESLTCGKIFAVEILDKSDVPLVVLVDYSGEDDININATCLKAICDRS
LQVHLQVDAMYTNVKTNICSDGTLQYVPCGKLNKLNLDLHKTEDYFHCKHMTSEYFISLFPFCGKICLF
HCKGKWL RVEITNVHSSRALDVQFLDSGNSTSVKSELREIPRFLQEMLAIPPQAIKCCCLADLPQSIGM
WTPDAVLWLRDVLNCSDCSIVKTKMDETKGVAYVYLF TPNFPDPHRSINRQITNADLWKHKQKDVFLSA
VSTAASSPGNRNGGTPAPGSPAESLRKSHPEVIKKSVDLHTSSFLEELPPPVLHLSRSGEHMDVYVPVAC
HPGHFVIQPWQEIHKLEVLMEEMILYYSVSEERHIAVERDQVYAAKVENKWRVLLKGI LTNGLVSYVEL
DYGKHEL VNI R K V Q P L V D V F R K L P F Q A V T A Q L A G V K C S Q W S E E A S M V F R N H V E K K A L V A L V Q T V V E H T N P
WDRKVVLVYLDVTSLPDPTDTHDFMSQYLLELSKVN
    
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TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_146142.2</a></u> , <u><a href="#">NP_666254.1</a></u>
<b>RefSeq Size:</b>	3537 bp
<b>RefSeq ORF:</b>	3261 bp
<b>Locus ID:</b>	100121
<b>UniProt ID:</b>	<u><a href="#">Q8K1H1</a></u>
<b>Cytogenetics:</b>	4 B1
<b>Gene Summary:</b>	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]