

Product datasheet for **MG209760**

Tdrd3 (BC005670) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tdrd3 (BC005670) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tdrd3
Synonyms:	4732418C03Rik; 6720468N18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209760 representing BC005670
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCCGCGTGCAGATGACGGATGGGCATACAAGTTGTACGGCAGTAGAATTCAGTTATATTTCAAAA
 TAAGCCTGAACACACCCTGGCACAAAAGTGAAGCTCTCTGGCACTGTGGACATAAAGAACGGATTCTT
 GCTCTTAAGTGACTCTAACACCACAGTTCTTGGTGGTGAAGTGGAAACACCTAATTGACAAGTGGGCTTTA
 CAGAGAAGCTTATTAAGCATAACAGAAGCAATATTGGAGCTGAAGGTGGCCACCTCCTTTTCTACCTT
 TTGGGCAGAAGTGTGCATCTAATGTCCAAGTGGATAGCAGAGAGCTTGATCGAAGAAAGACATTACAAGT
 TTCCCTGCCTGCCAAGCCTGCAATGATAATGATGAATTTGAAAAGCAAAGAAGTCTGCCATTGCAGAG
 GTTGCAAAGAGCAAAGAGACCAAGACATTTGGAGGAGGTGGAGGTGGCCAGAAGTAATCTCAATATTG
 GTGCTGCTGGTCACCGAAATAGGGAGGTTTACAGAAGGAAAAGGCTTCCAAGTCAGAGAGCAAGAACGA
 AGGTGTCTATAGAGAATTGGTTGATGAGAAAGCCCTGAAACACATAACAGAAATGGGCTTCAGTAAGGAG
 GCTTCGAGGCAAGCGCTGATGGATAATGCCAACAACTTAGAAGCAGCACTGAATGTCCTTCTGAACAGCA
 GTAACAGAAAGCCTGCTGTGGGCCCTCCTGCTAGAGGAAGAGGGAAGGCAGGGTTCGAGGACGATCAGA
 AGACGAGGAAGACCTGGGAACCGCAAGACCATCAGCACCAGCACGTTATTTGATTTCTTGGAGTCTAAA
 ATGGGAAGCTGTAATGTGGAAGAAGCTAAGTCACAGCCACAGCACCTTCAAGGACAGCACAGAGGAT
 GGAATGCCGAGCAAAATGGGATGAAGGACGGCAGTCAGTCAAGACATCTTCTCGAAACGATACCAGGCA
 GCCAAGAAATGAGAGGCCACCTCGCTTTCAAAAAGACACCCCACTTCCAAGTCACTGTAGAAAACAGC
 GTATTACTAGAAATAGAGGCTCCGAAAGGCCAGTAGTTCCTCAGGTTCTGATGTGGCAGAAGAGA
 GGATCAGGTGTGACAGGCCATATTCTAGGTATGACAGAAGTAAAGACGCTTCACATCCTCTAGGCTTTCA
 GCACAACGATGGTGCTTTTAAAAAGAGAGAGAAGTCTATGCAAAAACAGACCAGGAAGAGGCCCTTTGTAT
 GCAGAGGCCAAAGAAAACCCACTTCTCCAGAATTCGTAGATTACAATAATCAAAGACGTGGGAGAAGAG
 AAAACCAAACAGGTCACTCTGATCACTGTTATGAGAGGAAACCACGGACAATGAATAGTGAAGCTTTTAG
 TGGTCTAAAAATGAGAAACATTTTAGTGTAAACACTGATTACCCGAGTCTGTGCAGAGCAATAGTCTT
 GGTGTTCCAAATGGAGAGACAGTCCGCCTCTGAAAGGAAGGCGCGTAGGACCGATTAAGTCAGCAGGAC
 CTGTCACAGCTGTGCCCTACGATGATAAAATTTTTATAATAGTGGGCCAAAAGAAGGTCTGGGCCAAT
 TAAGCCTGAAAAGGTGATAGAATCATCTATTCTGTGGAGTATGCAAAAAGTGTGGAACCTGGCGATGAA
 TGTTTTGCACTTTATTGGGAAGACAACAAGTTTTACCGAGCAGAAGTTGAAGCCTTGCACTTCTCGGGTA
 TGACAGCGGTGCTTAAGTTCACGGACTACGGCAACTATGAAGAGGTGCTACTGAGCAATATCAAGCCTGT
 TCAGACAGAGGCATGGGAAGAAGAAGGCACCTATGATCACACCATTGAGTTTCGACAGAGGAGGTGATGGA
 CAGCCACGAAGGTCTACTCGGCCAACGCAGCAGTTTTACCAACCTCCTCGAGCTCGGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209760 representing BC005670
 Red=Cloning site Green=Tags(s)

MLRVQMTDGHSTCAVEFSYISKISLNTPPGKVKLSGTVDIKNGFLLLSDSNTTVLGGVEHLIDKWAL
 QRSLKLNRSNIGAEGPPFPFPGQKASNVQVDSRELDRRKTLQVSLPAKPANDNDEFKQRTAAIAE
 VAKSKETKTFGGGGGARSNLNIGAAGHRNREVLQKEKASKSESKNEGVYRELVDEKALKHITEMGFSKE
 ASRQALMDNANNLEAALNVLLNSSKQKPAVGPPARGRGKGRGRGRSEDEEDLGTARPSAPSTLFDLFESK
 MGTLNVEEPKSPQHLHQGHQHRWNAEQNGMKDGSQSRHLPRNDTRQPRNERPPRFQKDTPTSKSTVENS
 VLSRNRGSRPSSSSGSDVWAEERIRCDRPPYSRYDRTKDASHPLGFQHNDAFKKRENSMQNRPGRGPLY
 AEAKENLPPEFDYNNQRRGRRENQTGHPDHCHYERKPRMTNSEAFSGLKIEKHFVNTDYPSPVQSNLSL
 GVPNGETAPPLKRRVGPVKSAGPVTAAPYDDKIFYNSGPKRRSGPIKPEKVISSIPVEYAKVWPKPGDE
 CFALYWEDNKFYRAEVEALHSSGMTAVVKFTDYGNVEVLLSNIKPVQTEAWEEEGTYDHTIEFRRGGDG
 QPRRSTRPTQQFYQPPRARN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: BC005670

ORF Size: 1952 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: [BC005670](#), [AAH05670](#)

RefSeq Size: 2625 bp

RefSeq ORF: 1952 bp

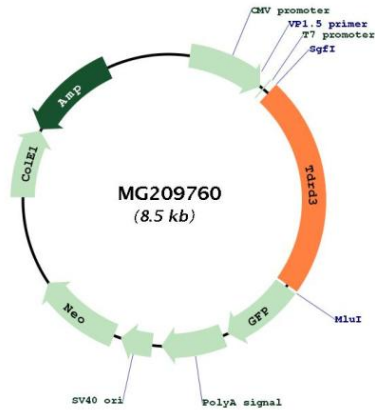
Locus ID: 219249

Cytogenetics: 14 E1

Gene Summary:

Scaffolding protein that specifically recognizes and binds dimethylarginine-containing proteins. In nucleus, acts as a coactivator: recognizes and binds asymmetric dimethylation on the core histone tails associated with transcriptional activation (H3R17me2a and H4R3me2a) and recruits proteins at these arginine-methylated loci. In cytoplasm, may play a role in the assembly and/or disassembly of mRNA stress granules and in the regulation of translation of target mRNAs by binding Arg/Gly-rich motifs (GAR) in dimethylarginine-containing proteins (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209760