

## Product datasheet for **RG207081**

### **TDRD3 (NM\_030794) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TDRD3 (NM_030794) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TDRD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207081 representing NM\_030794  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCGATTACAGATGACTGATGGTCATATAAGTTGCACAGCAGTAGAATTTAGTTATATGTCAAAA  
 TAAGCCTGAACACACCACCTGGAACATAAGTTAAGCTCTCAGGCATTGTTGACATAAAAAATGGATTCTT  
 GCTCTTGAATGACTCTAACACCACAGTTCTTGGTGGTGAAGTGAACACCTTATTGAGAAATGGGAGTTA  
 CAGAGAAGCTTATCAAAACACAATAGAAGCAATATTGGAAGTGAAGTGGACCACCGCCTTTTGTGCCTT  
 TTGGACAGAAGTGTATCTCATGTCCAAGTGGATAGCAGAGAAGTTGATCGAAGAAAAACATTGCAAGT  
 TACAATGCCTGTCAAACCTACAATGATAATGATGAATTTGAAAAGCAAAGGACGGCTGCTATTGCTGAA  
 GTTGCAAAGAGCAAGGAAACCAAGACATTTGGAGGAGTGGTGGTGGTGTAGAAATCTCAATATGA  
 ATGCTGCTGGTAACCGAAATAGGGAAGTTTACAGAAAAGAAAAGTCAACCAAATCAGAGGAAAAACATGA  
 AGGTGTCTATAGAGAAGTGGTTGATGAGAAAGCTCTGAAGCACATAACGGAAATGGGCTTCAGTAAGGAA  
 GCATCGAGGCAAGCTCTTATGGATAATGGCAACAACCTAGAAGCAGCACTGAACGTACTTCTTACAAGCA  
 ATAAACAGAAACCTGTTATGGGTCTCCTCTGAGAGGTAGAGGAAAAGGCAGGGGGCGAATAAGATCTGA  
 AGATGAAGAGGACCTGGGAAATGCAAGGCCATCAGCACCAGCACATTATTTGATTTCTTGGAACTAAA  
 ATGGGAACTTTGAATGTGGAAGAACCTAAATCACAGCCACAGCAGCTTCATCAGGGAACAATACAGATCAT  
 CAAATACTGAGCAAAATGGAGTAAAAGATAATAATCATCTGAGACATCCTCCTCGAAATGATACCAGGCA  
 GCCAAGAAATGAAAAACCGCCTCGTTTTCAAAGAGACTCCCAAATCAAAGTCAAGTTTGAAGGCAGT  
 GGATTACCTAGAAATAGAGGTTCTGAAAGACCAAGTACTTCTTCAGTATCTGAAGTATGGGCTGAAGACA  
 GAATCAAATGTGATAGACCGTATTCTAGATATGACAGAAGTAAAGATACTTCATATCCTTTAGTTCTCA  
 GCATAGTGATGGTGCTTTTTAAAAAAGAGATAACTCTATGCAAAGCAGATCAGGAAAAGTCCCTCCTTT  
 GCAGAGGCAAAAGAAAATCCACTTCTCAAGGATCTGTAGATTATAATAATCAAAAACGTGGAAAAAGAG  
 AAAGCCAAACATCTATTCTGATTATTTTTATGACAGGAAATCACAAACAATAAATAAGAACTTTTCAG  
 TGGTATAAAAAATGAAAAACATTTTAAATGTAATACTGATTATCAGAAATCCAGTTCGAAGTAAATAGTTTC  
 ATTGGTGTCCAAATGGAGAAGTAGAAATGCCACTGAAAGGAAGACGAATAGGACCTATTAAGCCAGCAG  
 GACCTGTCACAGCTGTACCCTGTGATGATAAAATATTTTACAATAGTGGGCCAAACGAAGATCTGGGCC  
 AATTAAGCCAGAAAAAATACTAGAAATCATCTATCCTATGGAGTATGCAAAAATGTGAAACCTGGAGAT  
 GAATGTTTTGCACCTTTATTGGGAAGACAACAAGTTTTACCGGGCAGAAGTTGAAGCCCTCCATTCTCGG  
 GTATGACAGCAGTTGTTAAATTCATTGACTACGGAAACTATGAAGAGGTGCTACTGAGCAATATCAAGCC  
 CATTCAAACAGAGGCATGGGAGGAAGAAGGCACCTACGATCAAATCTGGAGTCCGTAGGGGAGGTGAT  
 GGCCAGCAAGACGATCCACTCGGCCAACCCAACAGTTTTACCAACCACCCCGGGCTCGGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207081 representing NM\_030794  
 Red=Cloning site Green=Tags(s)

MLRLQMTDGHISCTAVEFSYMSKISLNTPPGTVKLSGIVDIKNGFLLLNDSNTTVLGGVEHLIEKWEL  
 QRSLSKHNRSNIGTEGGPPFVFPFGQKCVSHVQVDSRELDRRKTLQVTMPVKPTNDNDEFEKQRTAAIAE  
 VAKSKETKTFGGGGGARSNLNMNAAGNRNREVLQKEKSTKSEKHEGVYRELVDEKALKHITEMGFSKE  
 ASRQALMDNGNLEAALNVLLTSNKQKPMGPPLRGRGKGRGRIRSEDEEDLGNARPSAPSTLFDLFESK  
 MGTLNVEEPKSQPQLHQGQYRSNTEQNGVKDNNHLRHPPRNDTRQPRNEKPPRFQRDSQNSKSVLEGS  
 GLPRNRGSERPSTSSVSEVWAEDRIKCDRPPYSRYDRTKDTSYPLGSQHSDFKFRDMSMQSRSGKGPSF  
 AEAKENPLPQGSVDYNNQKRGKRESQTSIPDYFYDRKSQTIINNEAFSGIKIEKHFVNTDYQNPVRSNSF  
 IGVPNVEVEMPLKGRRIPIKIPAGPVTAVPCDDKIFYNLSPKRRSGPIKPEKILESSIPMEYAKMWPNGD  
 ECFALYWEDNKFYRAEVEALHSSGMTAVVKFIDYGNVEVLLSNKPIQTEAWEEEGTYDQTLFRRGGD  
 GQPRRSTRPTQQFYQPPRARN

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_030794

ORF Size: 1953 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\\_030794.2](#)

RefSeq Size: 2501 bp

RefSeq ORF: 1956 bp

Locus ID: 81550

UniProt ID: [Q9H7E2](#)

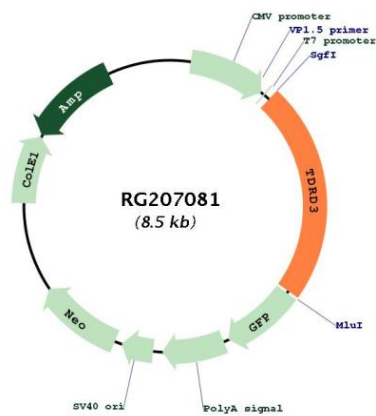
**Cytogenetics:** 13q21.2

**Domains:** UBA, TUDOR

**Protein Families:** Druggable Genome

**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. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207081