

## Product datasheet for **SC109535**

### **TDRD3 (NM\_030794) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TDRD3 (NM_030794) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDRD3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_030794, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCGATTACAGATGACTGATGGTCATATAAGTTGCACAGCAGTAGAATTTAGTTATATGTCAAAA
TAAGCCTGAACACACCACCTGGAACCTAAAGTTAAGCTCTCAGGCATTGTTGACATAAAAAATGGATTCTC
GCTCTTGAATGACTCTAACACCACAGTTCTTGGTGGTGAAGTGAACACCTTATTGAGAAATGGGAGTTA
CAGAGAAGCTTATCAAAACACAATAGAAGCAATATTGGAAGTGAAGGTGGACCACCGCCTTTTGTGCCTT
TTGGACAGAAGTGTGTATCTCATGTCCAAGTGGATAGCAGAGAAGTTGATCGAAGAAAAACATTGCAAGT
TACAATGCCTGTCAAACCTACAAATGATAATGATGAATTTGAAAAGCAAAGGACGGCTGCTATTGCTGAA
GTTGCAAAGAGCAAGGAAACCAAGACATTTGGAGGAGGTGGTGGTGGTGTAGAAAGTAACTCAATATGA
ATGCTGCTGGTAACCGAAATAGGGAAGTTTTACAGAAAGAAAAGTCAACCAAATCAGAGGGAAAACATGA
AGGTGTCTATAGAGAAGTGGTTGATGAGAAAGCTCTGAAGCACATAACGGAAATGGGCTTCAGTAAGGAA
GCATCGAGGCAAGCTCTTATGGATAATGGCAACAACCTAGAAGCAGCACTGAACGTACTTCTTACAAGCA
ATAAACAGAAACCTGTTATGGGTCTCCTCTGAGAGGTAGAGGAAAAGGCAGGGGGCGAATAAGATCTGA
AGATGAAGAGGACCTGGGAAATGCAAGGCCATCAGCACCAAGCACATTATTTGATTTCTTGAATCTAAA
ATGGGAACTTTGAATGTGGAAGAACCTAAATCACAGCCACAGCAGCTTCATCAGGGACAATACAGATCAT
CAAATACTGAGCAAAAATGGAGTAAAAGATAATAATCATCTGAGACATCCTCCTCGAAATGATACCAGGCA
GCCAAGAAATGAAAAACCGCCTCGTTTTCAAAGAGACTCCCAAAATTCAAAGTCAGTTTTAGAAGGCAGT
GGATTACCTAGAAATAGAGGTTCTGAAAGACCAAGTACTTCTTCAGTATCTGAAGTATGGGCTGAAGACA
GAATCAAATGTGATAGACCGTATTCTAGATATGACAGAACTAAAGATACTTCATATCCTTTAGGTTCTCA
GCATAGTGATGGTGTCTTTAAAAAAGAGATAACTCTATGCAAAGCAGATCAGGAAAAGGTCCCTCCTTT
GCAGAGGCAAAAAGAAAATCCACTTCTCAAGGATCTGTAGATTATAATAATCAAAAACGTGGAAAAGAG
AAAGCCAAACATCTATTCCTGATTATTTTTATGACAGGAAATCACAAACAATAAATAATGAAGCTTTCAG
TGGTATAAAAATGAAAAACATTTTAAATGTAAATACTGATTATCAGAATCCAGTTCGAAGTAAATAGTTTC
ATTGGTGTTCAAATGGAGAAGTAGAAATGCCACTGAAAGGAAGACGAATAGGACCTATTAAGCCAGCAG
GACCTGTCACAGCTGTACCCTGTGATGATAAAATATTTTACAATAGTGGGCCCAAACGAAGATCTGGGCC
AATTAAGCCAGAAAAATACTAGAATCATCTATTCCTATGGAGTATGCAAAAATGTGAAAACCTGGAGAT
GAATGTTTTGCACCTTTATTGGGAAGACAACAAGTTTTACCGGGCAGAAGTTGAAGCCCTCCATTCTCGG
GTATGACAGCAGTTGTTAAATTCATTGACTACGAAAACATGAAGAGGTGCTACTGAGCAATATCAAGCC
CATTCAAACAGAGGCATGGGAGGAAGAAGGCACCTACGATCAAACCTCTGGAGTTCGTAGGGGAGGTGAT
GGCCAGCCAAGACGATCCACTCGCCAACCCAACAGTTTTACCAACCACCCCGGGCTCGGAACTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_030794 unedited

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NGTAACGTTCAAATTTGTATACGACTCACTATAGGCGGCCGNAATTCGCACNNGGGGGG
GGGTCTCAAGTAGGAGGCTCCCATCACCCCCACCCAGCCCCCACCACCCCGGCCT
AAGCAGCTACCATGGCCAGGTGGCCGGCGGGCGTGTCCAGGCGGGTTGGTATCTTT
CAGATGAAGGCATTGAAGCTTGACAAGCTCTCCAGACAAGTCAATGTAATGACATCA
TCCTGATTGCTCTCAATACAGATCTGAGAACAATTGGCAAGAAATTCCTCCCAAGTGACA
TCAATAGTGGAAAGGTAGAAAAGCTCGAAGGTCCATGTGTTTTGCAAATTCAAAAATTC
GCAATGTTGCTGCACAAAGGATAATGAAGATCTCAGGCTGCACCAAGGATGCTGCGAT
TACAGATGACTGATGGTCATATAAGTTGCACAGCAGTAGAATTTAGTTATATGTCAAAA
TAAGCCTGAACACACCACCTGGAACCTAAAGTTAAGCTCTCAGGCATTGTTGACATAAAA
ATGGATTCTGCTCTTGAATGACTCTAACACCACAGTTCTTGGTGGTGAAGTGAACACC
TTATTGAGAAATGGGAGTTACAGAGAAGCTTATCAAAACACAATAGAAGCAATATTGGAA
CTGAAGGTGGACCACCGCCTTTTGTGCCTTTTGGACAGAAGTGTGTATCTCATGTCCAAG
TGGATAGCAGAGAAGCTTATGATCGAAGAAAAACATTGCAAGTTACAATGCCTGTCAAACCTA
CAAATGATAATGATGAATTTGAAAAGCANAGGACGGCTGCTATTTGCTGAATTTGCAAGA
GCAAGGAAACCAAGACATTTGGAGGAGGGTGGTGGGTTGCTAGAAATAATC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_030794 unedited ACATGGTTTTCTTGACGGCAGNAANAAAATTCTTCCTTTCACTTGTAAGTATTTGCTT AATTTAACTCAGTATTTTTTCCATTCTTTGTGTGAGTTGACTGTTTTTCCACCCTAAA ATCTGTTTTTCTTTCTCAAATAATAATCCACCACAGCTACTTATTCTGAAGAGAAA GTGGAAGTCTGTCAACAGGTTCCACCAGGTGTTTCAGTCACTGGCTCGTTTCTTAC AAAGAGTCTACTTTTCTATTAGTTCGAGCCCGGGTGGTTGGTAAAAGTGTGGGTTG GCCGAGTGGATCGTCTTGGCTGGCCATCACCTCCCCTACGGAAGTCCAGAGTTTGATCGT AGGTGCCTTCTTCTCCCATGCCTCTGTTGAATGGGCTTGATATTGCTCAGTAGCACCT CTTCATAGTTTCCGTAGTCAATGAATTTAACAAGTCTGTCATACCCGAAGAATGGATGG CTTCAACTTCTGCCCGTAAAAGTGTGTCTTCCCAATAAAGTGCAAAACATTCATCTC CAGGTTTCCACATTTTTGCATACTCCATAGGAATAGATGATTCTAGTATTTTTTCTGGCT TAATTGGCCAGATCTTCGTTGGGCGCACTATTGTAATATTTTATCATCACAGGTACA GCTGTGACAGGCTCTGCTGGCTTATAGGTCCATCCGCTCCTTTCAAGGCTTTTCTACT TCTCCTTTTGACACCATTGAAACATTACTTCCAAGTCTGTAATCCATATTACCT TAAAAGGTCCTCAATTTTATACCACGGAAGCTTCAATTATTGCTTGTGATTTCCCG CCTAAAATCATCAGAATAGAGTTTGGCTTTTTCTTTTCAATTGTTGATTTTCTAATCCA CAAATCCCGGAGGAATAGATTTCCCTTGGCCCTGCAAGGAAGGCCCTCCCTCACCCCC CCG
<b>Restriction Sites:</b>	ECORI-NOT
<b>ACCN:</b>	NM_030794
<b>Insert Size:</b>	2950 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_030794.1</a></u> , <u><a href="#">NP_110421.1</a></u>
<b>RefSeq Size:</b>	2501 bp
<b>RefSeq ORF:</b>	1956 bp
<b>Locus ID:</b>	81550
<b>UniProt ID:</b>	<u><a href="#">Q9H7E2</a></u>
<b>Cytogenetics:</b>	13q21.2
<b>Domains:</b>	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]

Transcript Variant: This variant (2) contains a distinct 5' UTR and uses a different splice site in its 5' UTR, compared to variant 1. These differences cause translation initiation at a downstream start codon. The encoded protein (isoform 2) is shorter than isoform 1.