

Product datasheet for **SC315030**

TDRD5 (NM_173533) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDRD5 (NM_173533) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDRD5
Synonyms:	TUDOR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC315030 representing NM_173533.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCTGAACAAGAGCGTATACAGGAATGTCTGCGGAAGGAAATAAGGTCACTTCTCATTTCACCAAAA
GATGGTTTGAGCCACAGGAGTTGGAGAAGGAGTACCTTTTGATGGTTGGCAACCATCTACCACTCCGA
ATCCTTGGGTATCGGTCCACTATGGAGCTGGTATTGGACATGCCTGATGTTGTTCTGTCTGCCCGGT
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AAACAGAGGAGCAGCCATAAGCTTCGAAACTCAATGCATAAGGGAAGACCTAGTATTTATCTGGACCG
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CATCTCTGTTGTGTAAGGATTTCTGAGGATAAGTGGTGGTATCGGGTCATTATCCATCGAGTCTTGAG
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CAAATTCAGCTTTCCACAGCAGCACCTGTTCAACAACTGCAGTGGATGATTCGCAGAAAAGCCCTCT
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TACAAAGACAAGCGTCAAGAATCTGTAGACCAGCTGTCTTGATTTGTCTTATGAGTGCCAGATTTCT
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AGGAGCCTCCTACACTGGTACCCAGTGTGAAAAGGATGGAAGCATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

ACCN:	NM_173533
Insert Size:	2946 bp
OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_173533.3</u>
RefSeq Size:	3836 bp
RefSeq ORF:	2946 bp
Locus ID:	163589
UniProt ID:	<u>Q8NAT2</u>
Cytogenetics:	1q25.2
Domains:	TUDOR, TUDOR
MW:	109.7 kDa
Gene Summary:	Required during spermiogenesis to participate in the repression transposable elements and prevent their mobilization, which is essential for the germline integrity. Probably acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Required for chromatoid body (CB) assembly (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) lacks an in-frame coding exon compared to variant 1. The resulting isoform (2) lacks an internal segment compared to isoform 1. Variants 3, 4, and 6 all encode the same isoform (2).