

Product datasheet for **RG235099**

TDRD5 (NM_001199091) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDRD5 (NM_001199091) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TDRD5
Synonyms:	TUDOR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG235099 representing NM_001199091
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGAACAAGAGCGTATACAGGAATGTCTGCGGAAGGAAATAAGGTCACTTCTCATTCCACCAAAG
 ATGGTTTGAGCCACAGGAGTTGGAGAAGGAGTACCTTTTGATGGTTGGCAACCATCTACCACTCCGAAT
 CCTTGGGTATCGGTCCACTATGGAGCTGGTATTGGACATGCCTGATGTTGTTCTGTCTGCCCGGTGCA
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 AGAGGAGCAGCCATAAGCTTCGAAACTCAATGCATAAGGGAAGACCTAGTATTTATTCTGGACCGAGATC
 TCATCGGCGAGTACCTTACCGAGGAAGGGTTGCCCTATTCTCCAGCTGTTGTGAAGAGTGAGTTGAAG
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 CATTCCAATACATGCAATATGGATTTCTCTCTATGTTTGAAGTGCTTAATGCGGCTTCAGATGTCATTTT
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 GACTTCCAAGTAAATGTAGTGGAGACTTCAAGACTGAATCACACTGAAAAATTAACCAGCTGGAGAAC
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 ATCTCCATGTTGAGTTCAGGAAAGGACACCAAGACTTACTAGTGTGTTGATGCGGATAAGAAGCCTCTAC
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 AGGTGCTGCCGACGGTTAGCTACATCCAGGAGCCTCTACACTGGTACCCAGTGTGAAAAGGATGGAA
 GCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG235099 representing NM_001199091
 Red=Cloning site Green=Tags(s)

MSEQERIQECLRKEIRSLLISTKDGLSPQELEKEYLLMVG NHLPLRILGYRSTMELVLDMPDVVRVCPGA
 GGTVILKAIPDESTKGIASLVAKQRSSHKL RNSMHKGRPSIYSGPRSHRRVVPYRGRVAPILPAVVKSELK
 DLLALSPVLLSDFEKAFKRFRGSFYMQYGF L SMFEVLNAASDVISVEQTRAGSLLMLKKSVTTEKPRG
 CPAGKIFTQPFMRKQGSYSTGFPVAKPCF SQPTSNMEPPKQIMSMEKTSKLN VVETSRLNHTEKLNQLEN
 TFKSVIAQIGPGGTISSELKHKIKFVVS KFPEGLFISKLLGEYEVIFKEQLSPKKGFLNVTEL VGALSD
 ILHVEFRKGHQDLLVFDADKKPLPPVQSDK KIEAKACVSSPPRNSLSTAAVKETVWNCPSKKQKEPQQKI
 CKKPNLVVKPLQLQVETNKSELNLANMHDIP PDAVPNKKLCRLPPLDTSSLIGVFVEYIISPSQFYIRI
 YSRDSSELLEDMMIEMRRCYSNQLVSDRYVMPECFIQPGHLCCVRI SEDKWWYRVIIHRVLEKQEVEV FY
 PDFGNIGIVQKSSLRFLKCCYTKLPAQAIPC SLAWVRPVEEHWTSKAILQFQKLCGLKPLVGVVDEYVDG
 ILNIFLCDTSSNEDVYFHHVLRTEGHAI VCRENISSKGFSELNPLALYTTSSGGPEDIVL TELGYPSQQH
 YFNEDRKIS PQSKESEL RILDEIPTGMPCLESVTIGDDIW DENWLP LQAKMGKGGDAASHLFTASLGGKN
 QYSSCKEMPQKDWCFSTPKDTWDDSWQPSGL VNGTKVEVHKPEVLGAQEKNTGTNRTQKQLDINGSSDSS
 TLPKLEEFCTSLTQSEQSADGSQSEPNN SQTQPKQIQLSTAAPCSTTAVDDSAEKPSGVSSEI LKNE
 DFSSSRAITLYKDKRQESVDQLSLILSYECQIS QKLYIPRSTATAALGAAARLATSRSLLHWYPSVKRME
 A

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

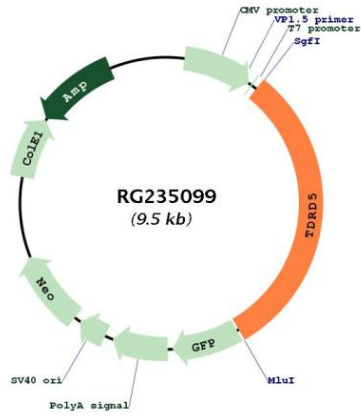


ACCN: NM_001199091

ORF Size: 2943 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:	<ol style="list-style-type: none">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_001199091.1 , NP_001186020.1
RefSeq Size:	3677 bp
RefSeq ORF:	2946 bp
Locus ID:	163589
UniProt ID:	Q8NAT2
Cytogenetics:	1q25.2
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]

Product images:



Circular map for RG235099