

Product datasheet for **RG231304**

TDRD5 (NM_001199092) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDRD5 (NM_001199092) 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:

>RG231304 representing NM_001199092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAATCATGACATCCCGCCAGACGCTGTGCCGAACAAGAAATTATGCAGACTCCACCATTAGACA
 CCAGTTCCTCATAGGGGTCTTTGTGGAGTATATCATCTCCTAGTCAATTCTACATCCGATCTATAG
 CAGGGATTCGTCAGAGTTACTCGAAGACATGATGATTGAAATGCGGCGCTGTTATTCTAATCAGCTGGTT
 TCTGATCGATATGTCATGCCAGAATGTTTTATTACCGGGACATCTCTGTTGTGAAGGATTTCTGAGG
 ATAAGTGGTGGTATCGGGTCATTATCCATCGAGTCCTTGAGAAACAGGAAGTTGAAGTGTCTACCCAGA
 CTTTGAAATATTGGAATTGTTGAGAAGTCTCCCTGAGGTTCTCAAGTGTCTACACAAAGCTTCCA
 GCTCAGGCTATCCCTTGTCTTTGGCTTGGGTGAGACCAGTAGAGGAACACTGGACATCGAAAGCTATTT
 TGCAGTCCAGAAGTTGTGCGGTTTGAAGCCATTAGTGGGGTAGTGGATGAATATGTAGATGGAATCCT
 TAACATTTTTTTGTGTGACACATCTCAAACGAAGATGTCTATTTCCATCATGTCTTGAGAACAGAGGGC
 CATGCTATTGTATGCCGAGAAAATATCTCTTCTAAGGGTTTCAGTGAGCTCAACCTTTAGCTTTATACA
 CGACATCCAGTGGAGGGCCAGAGGACATTGTCTTGACAGAACTGGGTTATCCTTCCCAGCAGCACTATTT
 TAATGAAGACCGAAAGATAAGTCCACAGTCAAAGAGAGTGAGTTACGTATCTTGGATGAGATCCCCACT
 GGAATGCCATGCCTGGAGTCAGTGACCATAGGTGATGATTTGGGATGAGAAGTGGTTACCTCTACAGG
 CTAAGATGGGAAAAGGAGGTGATGCTGCCTCCCATCTATTTACTGCAAGCCTTGGTGAAAGAATCAGTA
 TTCATCATGTAAGAAAATGCCACAGAAGGACTGGTGTCTTCTACCCCTAAAGATACATGGGATGATTCT
 TGGCAGCCTTCAGGCCTGTAAATGGAACGAAAGTAGAAGTTCATAAGCCAGAAGTACTGGGTGCTCAGG
 AAAAAAATCTGGCACAACAGGACTCAAAGCAACTAGACATAAATGGTCTTTCAGATTCTTCCACACT
 GCCCAAATGGAAGAATTCTGTACTCTTTACCCAGTCAGAGCAGTCAGCAGACGGGAGCCAGTCTGAA
 CCCAACACAGTCAGACTCAGCCAAAGCAAATTCAGCTTTCACAGCAGCACCCCTGTTCAACAACCTGCAG
 TGGATGATCCGCAGAAAAGCCCTCTGTTCTGTGAAAGCTCACCAGAGATCCTAAAGAATGAAGATTT
 TTCTAGCAGCCGTGCTATTACATTGTACAAAGACAAGCGTCAAGAATCTGTAGACCAGCTGTCTTTGATT
 TTGTCTTATGAGTGCCAGATTTCTCAGAAGCTCTACATTCCTCGAAGTACAGCCACTGCTGCCTTAGGTG
 CTGCCGACGGTTAGCTACATCCAGGAGCCTCTACACTGGTACCCAGTGTGAAAAGGATGGAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG231304 representing NM_001199092
 Red=Cloning site Green=Tags(s)

MANHDIPPDAVPNKKLCRLPPLDTSSLIGVFVEYIISPSQFYIRIYSRDSSELLEMMIEMRRCYSNQLV
 SDRYVMPECFIQPGHLCVRISEDKWYRVIIHRVLEKQEVEVFYPDFGNIGIVQKSSLRFLKCCYTKLP
 AQAIPCSLAWVRPVEEHWTSKAILQFQKLCGLKPLVGVVDEYVDGILNIFLCDTSSNEDVYFHHVLRTEG
 HAIVCRENISSEKGFSELNPLALYTTSSGGPEDIVLTELGYPSQQHYFNEDRKISPSQSESELRLDEIPT
 GMPCLSVITIGDDIWDENWLPQAKMGKGGDAASHLFTASLGGKNQYSSCKEMPQKDWCFSTPKDWDSS
 WQPSGLVNGTKVEVHKPEVLGAQEKNKTGNTQKQLDINGSSDSTLPKLEEFCTSLTQSEQSADGSQSE
 PNNSQTQPKQIQLSTAAPCSTTAVDDSAEKPSGSVESSPEILKNEDFSSRAITLYKDKRQESVDQLSLI
 LSYECQISQKLYIPRSTATAALGAAARLATSRSLLHWYPSVKRMEA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001199092
ORF Size:	1608 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_001199092.1 , NP_001186021.1
RefSeq Size:	2501 bp
RefSeq ORF:	1611 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]