

Product datasheet for **RG235133**

TDRD5 (NM_001199089) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TDRD5 (NM_001199089) 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)
ORF Nucleotide Sequence: >RG235133 representing NM_001199089
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGAACAAGAGCGTATACAGGAATGTCTGCGGAAGGAAATAAGGTCACTTCTCATTCCACCAAAG
ATGTTTTGAGCCACAGGAGTTGGAGAAGGAGTACTTTTGATGGTTGGCAACCTCTACCACTCCGAAT
CCTTGGGTATCGGTCCACTATGGAGCTGGTATTGGACATGCTGATGTTGTTCTGTCTGCCCGGTGCA
GGTGGTACTGTAATACTGAAAGCCATTCCAGATGAATCTACCAAAGGAATAGCAAGCTTAGTTGCAAAC
AGAGGAGCAGCCATAAGCTTCGAAACTCAATGCATAAGGGAAGACCTAGTATTTATTCTGGACCGAGATC
TCATCGGCGAGTACCTTACCGAGGAAGGTTGCCCTATTCTCCAGCTGTTGTGAAGAGTGAGTTGAAG
GACCTGTTGGCGTTATCTCCTGTTCTTCTTCTGATTTTGAAAAGGCATTTGCCAAAAGATTTGGACGAT
CATTCCAATACATGCAATATGGATTTCTCTCTATGTTTGAAGTGCTTAATGCGGCTTCAGATGTCATTTT
TGTAGAGCAGACCAGAGCAGGTTCTTTGTTGATGCTAAAGAAGAGTGTAACAGAGGAAAAGCCGAGAGGA
TGTCCAGCAGGTAATAATTTTACCCAGCCATTTAGAATGAAACAAGGGTCATACTCCACAGGCTTTCCGG
TAGCAAAGCCATGCTTTTACAACCCACTTCAAACATGGAACACCGAAGCAAATAATGAGCATGGAAAA
GACTTCCAAGTTAAATGTAGTGGAGACTCAAGACTGAATCACACTGAAAAATTAACCAGCTGGAGAAC
ACATTCAAATCAGTTATTGCACAGATTGGACCTGGAGGAATATCAGTTCAGAACTAAAACATAAGATAA
AATTTGTTGTATCTAAGTTCCCAGAGGTTTGTATTTCTAAAAGTCTGGAGAGTATGAGGTAATTTT
TAAAGAGCAACTATCACCAAAAAAATTAGGCTTCTTAAATGTGACAGAAGTGTGGAGCTCTTAGTGAC
ATTCTCCATGTTGAGTTCAGGAAAGGACACCAAGACTTACTAGTGTGATGCGGATAAGAAGCCTCTAC
CACCTGTTGAGTTCAGATAAAGAAAATAGAAGCCAAAGCTTGTGTCTCCAGTCCACCTAGAAATTCATTGTC
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TGCAAGAAGCCTAATCTGGTGGTAAAGCCTTTACAGCTGCAAGTAGAAACAACAATCAGAGCTCAACT
TGGCAATGGCAAATCATGACATCCGCCAGACGCTGTGCCGAACAAGAAATATGCAGACTCCACCATT
AGACACCAGTCCCTCATAGGGGCTTTGTGGAGTATATCATCTCTCCTAGTCAATTCTACATCCGGATC



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TATAGCAGGGATTCGTCAGAGTTACTCGAAGACATGATGATTGAAATGCGGCGCTGTTATTCTAATCAGC
 TGGTTTCTGATCGATATGTCATGCCAGAATGTTTTATTAGCCGGGACATCTCTGTTGTGAAGGATTTCT
 TGAGGATAAGTGGTGGTATCGGGTCATTATCCATCGAGTCCTTGAGAAACAGGAAGTTGAAGTGTCTAC
 CCGAGCTTTGAAATATTGGAATTGTTCCAGAAGTCCTCCCTGAGGTTCTCAAGTGTCTACACAAAGC
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 TATTTTGCAGTTCCAGAAGTTGTGCGGTTTGAAGCCATTAGTGGGGTAGTGGATGAATATGTAGATGGA
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 AGGGCCATGCTATTGTATGCCGAGAAAATATCTCTTCTAAGGGTTTCAGTGAGCTCAACCCTTTAGCTTT
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 TGCAAGCCTTGGTGGAAAGAATCAGTATTCATCATGTAAGAAAATGCCACAGAAGGACTGGTGTCTTTCT
 ACCCTAAAGATACATGGGATGATTCTTGGCAGCCTTCAGGCCTTGTAATGGAACGAAAAGTAGAAGTTC
 ATAAGCCAGAAGTACTGGGTGCTCAGGAAAAAAATACTGGCACAAACAGGACTCAAAGCAACTAGACAT
 AAATGGTCTTTCAGATTCTCCACTGCCAAATTTGGAAGAATTCTGTACCTCTCTTACCCAGTCAGAG
 CAGTCAGCAGACGGGAGCCAGTCTGAACCCAACAACAGTCAGACTCAGCCAAAGCAAATTCAGCTTTCCA
 CAGCAGCACCCCTGTTCAACAACAGTGGATGATTCCGCAGAAAAGCCCTCTGGTTCTGTGAAAGCTC
 ACCAGAGATCCTAAAGAATGAAGATTTTCTAGCAGCCGTGCTATTACATTGTACAAAGACAAGCGTCAA
 GAATCTGTAGACCAGCTGCTTTGATTTGTCTTATGAGTGCCAGATTTCTCAGAAGCTCTACATTCCTC
 GAAGTACAGCCACTGCTGCCTTAGTGCTGCCGCACGGTTAGCTACATCCAGGAGCCTCTACACTGGTA
 CCCAGTGTGAAAAGGATGGAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235133 representing NM_001199089
 Red=Cloning site Green=Tags(s)

MSEQERIQECLRKEIRSLLISTKDGLSPQELEKEYLLMVG NHLPLRILGYRSTMELVLDMPDVVRVCPGA
 GGTVILKAIPDESTKGIASLVAKQRSSHKL RNSMHKGRPSIYSGPRSHRRVYPYRGRVAPILPAVVKSELK
 DLLALSPVLLSDFEKAFKRFRGFSFYMQYGF L SMFEVLNAASDVISVEQTRAGSLLMLKKSVT EEEKPRG
 CPAGKIFTPFRMKQGSYSTGFPVAKPCFSQPTS NM EPPKQIMSMEKTSKLN VVETSRLNHTEKLNQLEN
 TFKSVIAQIGPGGTISSELKHKIKFVVS KFPEGLFISKLLGEYEVIFKEQLSPKKLGFLNVTEL VGALSD
 ILHVEFRKGHQDLLVFDADKKPLPPVQSDK KIEAKACVSSPPRNSLSTAAVKETVWNCPSKKQKEPQQKI
 CKKPNLVVKPLQLQVETNKSELNLAMANHDI PPDVAVPNKKLCRLPPLDTSSLIGVFVEYIISPSQFYIRI
 YSRDSSELLEDMMIEMRRCYSNQLVSDRYVMPECFIQPGHLCCVRI SEDKWWYRVI IHRVLEKQEV EYFY
 PDFGNIGIVQKSSLRFLKCCYTKLPAQAIPC SLAWVRPVEEHWTSKAILQFQKLCGLKPLVGVVDEYVDG
 ILNIFLCDTSSNEDVYFHHVLRTEGHAIVCRENI SSKGFSELNPLALYTTSSGGPEDIVLTELGYPSQQH
 YFNEDRKIS PQSKESELRI LQDINDEKSLSHL KSESKEPLKDFEFESLTKCNKSFEE DPKWSNPEPNDLK
 EENEDEIPTGMP CLESVTIGDDIWDENWLP LQAKMGKGGDAASHLFTASLGGKNQYSSCKEMPQKDWCF S
 TPKDWDSDWQPSGLVNGTKVEVHKPEVLGAQ EKNTGTNRTQKQLDINGSSDSSSTLPKLEEFCTSLTQSE
 QSADGSQSEPNNSQTQPKQIQLSTAAPCSTT AVDDSAEKPSGVSVESSPEILKNEDFSSSRAITLYKDKRQ
 ESDVQLSLILSYECQISQKLYIPRSTATAALGAAARLATSRSLLHWYPSVKRMEA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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:	<u>NM_001199089.3</u>
RefSeq Size:	3711 bp
RefSeq ORF:	3108 bp
Locus ID:	163589
UniProt ID:	<u>Q8NAT2</u>
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]