

Product datasheet for **RG215743**

TDRD1 (NM_198795) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TDRD1
Synonyms:	CT41.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215743 representing NM_198795
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGTTAAATCGCCATTTAATGTGATGTCAAGAAATAATTTGGAAGCACCTCCTTGTAAGATGACAG
AGCCATTTAATTTTGAGAAAAATGAAACAAGCTTCCACCACATGAGTCTTTAAGAAGTCTTGGAACACT
TCCTAACCCACCTAATTTAGGCTGAAAAGCTCAGAGAATGGAAATAAAAAGACAATTTTTGCTTTGT
GAGCAAAACCAACAATATTTGGCTAGTCAGGAAGACAATTCAGTTTCTTCAAACCGAATGGCATCAACG
GAGAAGTAGTTGGCTCCAAGGAGACAGGAAAAATTGCCAGCAGGAACTCAGTGTCAACCAAGTGC
TGAAAGTAATTCACCACCCAAAGAAGTGAATTAAGCCTGGAAATAATGTACGTCCTGCAAAATCAAAA
AACTAAACAAGTTGGTCGAGAATTCCTTGTCATAAGTAATCCAGGGCTCTTCACTCCTTAGGACCTC
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CTACTATTGCTCCACAGCATGTCAAAGAAGAGACTGGTCTGCACACAGCATCGTGTGCAAGGCCTGTTCA
CCAAATTTCCACAACCTGAAAATAAATCATCTATTGAAACAAAGGATGTGGAGGTAACAATAAGAGTG
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GTGCAGTTATATTCTTCAGAAATTTTGAATACATGAACCAACTCTCGCCAGCTTAAAGAAACATATG
CAAATGTGCATGAAAAAGACTATATTCCTGTTAAGGGGGAAGTTTGTATTGCCAAGTACACTGTTGATCA
GACCTGGAACAGAGCAATCATACAAACGTTGATGTGCAGCAAAAGAAGGCACATGTCTTATATATTGAT
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TGCAAGGTGCCGAAAGCTTGCTGAACCTCAGGCATCCCTAGCAAGTACTGTGATCAGTTGCCTCCACG
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TCTGAAGAAGCCATAACAAGATCCAGATGTGTGTTGCTGGGATAAAATGCAAGCCAGAGTGGTTGAAG
TCACTGAAAAATGGGATAGGAGTTGAACCTACCGATCTCTCCACTTGTTATCCAGAATAATTAGTGATGT
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CAAATTATTAGATGTTCACTTGAAGGATTAAATGGAATTGAAATGGAAGCTCTTCTCAATATAATAATGC
TATTAATAAATTTTCATGTTGAATCAGAAATGTAATGCTTTCTGTGAAAGGAATTACAAGAAATGTCATAC
AGTGTGAGTTGAGAAATGTTCTGAGAATGGGACTGTCGATGTAGCTAGATAAGCTAGTGACATTTGGTCTG
GCAAAAAACATCACACCTCAAAAGGCAGAGTGCTTTAAATACAGAAAGAGTGATAGGATGAATTTGCTCG
GCACAGAGTACAGAAACAAGTTGAAAAACATGAACATATTTCTTCTCTTAAACAAATACAACCA
TCAAAATAAATTTATTGAAATGAAAAAAGTGTAAAAAAGACGATCTCTGGAGGTAACCCCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215743 representing NM_198795
Red=Cloning site Green=Tags(s)

MSVKS PFNVMSRNNLEAPPCKMTEPFNFENKENLPPHESLSRPGTLNPNHNFRLKSSENGNNKNNFLCL
EQTKQYLASQEDNSVSSNPNGINGEVGSGDKRKKLPAGNSVSPSPAESNSPPKEVNIKPGNNVPAKSK
KLNLKVENSLSISNPLFTSLGPPLRSTTCHRCGLFGLRCSQCKQTYCYSTACQRDRWSAHSIVCRPVO
PNFHKLENKSSSETKDVEVNNKSDCPLGVTKIEIATWAERIMFSLDRSLQLKTKMETIKGTVTFEKHGPDFY
VQLYSSEVLEYMNLASLAKETYANVHEKDYIPVKGEVCIKAYTVDQTNWRAIIQNVVDVQKKAHVLYID
YGNEEIIPLNRIYHLNRNLDIPPGCAIKCFVANVIPAEGNWSSDCIKATKPLMEQYCSIKIDVILEEV
VTFAVEFLPNSGKLKLDHVLIEEMGKLKPSGLQSKDENADQSDPEDVGKMTENNIVYDSKIDLPEKVL
NYGDEFCGVVAHIQTPEDFFCQQLQSGRKLAEQASLKDYCQDLPPRSDFYPAIADGTCCAQFSEDDQWYR
ASVLAYASEESVLVGYVDYGNFEILSMRLCPIIPKLELPMQAIKCVLAGVKPSLGIWTPEAICLMKKL
VQNKIITVKVVDKLENSSLVELIDKSETPHVSVSKVLLDAGFVGEQSMVTDKPSDVKETSPLGVEGKV
NPLEWTWVELGVDQTVDDVVVCIYSPGEFYCHVLKEDALKKLDNLNKSALAEHCQQLKPNGFKAIEIGQPC
AFFAGDGSWYRALVKEILPNGHVKVHFVDYGNIEEVTADELRMISSFTLNLFPQGI RCLADIQSRNKH
SEEAITRFQMCVAGIKLQARVVEVTENGIGVELTDLSTCYPRIISDVLIDEHLVLKSASPHKDLPNDRV
NKHELQVHVQGLQATSSAEQWKITDELVDKTIQANVLEIISPNLFYALPKGMPENQEKLCMLTAELEYE
NAPKSRPPYPRIGDACCAYKTSDDFWYRAVLLQTSDDTDEVLVADYGNITELPLCRVPQITSSHLALPF
QIIRCSLEGLMELNGSSQLIIMLLKNFMLQNVNMLSVKGIKNTKHNVTSEVKESCENGTVADKLVTFGL
AKNITPOROSALNTEKMYRMNCCCTELQKQVEKHEHILLFLNNSTNQNKFIEMKKLLKKTASLGGKPL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_198795

ORF Size: 3567 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:

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.

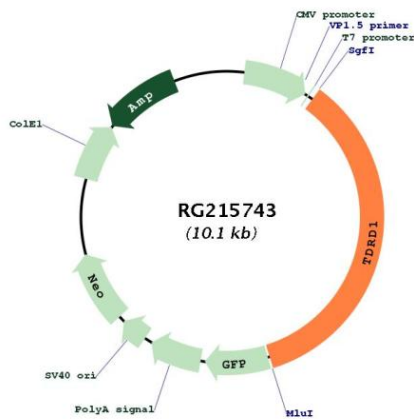
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198795.1](#), [NP_942090.1](#)

RefSeq Size: 4510 bp
RefSeq ORF: 3570 bp
Locus ID: 56165
UniProt ID: [Q9BXT4](#)
Cytogenetics: 10q25.3

Gene Summary: This gene encodes a protein containing a tudor domain that is thought to function in the suppression of transposable elements during spermatogenesis. The related protein in mouse forms a complex with piRNAs and Piwi proteins to promote methylation and silencing of target sequences. This gene was observed to be upregulated by ETS transcription factor ERG in prostate tumors. [provided by RefSeq, Sep 2018]

Product images:



Circular map for RG215743