

Product datasheet for **RC219472**

TDRD9 (NM_153046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDRD9 (NM_153046) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TDRD9
Synonyms:	C14orf75; HIG-1; HLS; NET54; SPGF30; SPNE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219472 representing NM_153046 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCTGCGGAAGCTCACCATCGAGCAGATCAACGACTGGTTCACCATCGGCAAGACGGTGACCAATGTGG
AGCTGTGGGCGCGCCGCCCTTCCCGGCAGGGCGGCCAGGGAGGAGGTGCAGCGCCAGGACGTGGC
CCCCGGCGCTGGTCCCGCGGCCAGGCTCCGGCTCTGGCCCAAGCTCCGGCCCGGCCGCTGCGTTC
GAAAGGTCACTCAGCCAAAGGAGCTCAGAAGTAGAGTATATTAACAAATACAGACAGCTCGAAGCACAAG
AGCTTGATGTGTGTCGAGTGTCCAACCAACAGTGGGCCAGGTCCAAGGCCATCTTTGGCTAAATTAAG
CAGTGTGACGTGCATCCCAGGGACAACCTATAAATATCCTGATTTGCCTATAAGTCGATACAAGGAAGAG
GTTGTGTCTTTGATAGAAAGTAATTCCTGGTGATTATCCATGGGGCCACGGGAAGCGGTAAGGCACTC
AGCTCCCGCAGTATATCTTGACCACTACGTTCCAGCGCTCCGCCTACTGCAGCATTGTGGTCACCCAGCC
CCGGAAGATAGGGGCAAGCAGCATCGCCAGGTGGATCAGTAAAGAGCGTGCCTGGACCCTGGGAGGTGTG
GTGGGCTACCAGGTAGGGCTAGAGAAAATAGCAACAGAGGACACCAGGCTAATTTATATGACAACTGGAG
TCCTGCTTCAGAAAATAGTTAGTGCCAAGAGTTTGATGGAATTCACACATATCATCATTGATGAAGTACA
CGAACGAACAGAAAGAAATGGATTTCTGCTATTGGTAGTCCGCAAACTCTTAAGAACAAATTCACGTTTT
GTGAAGGTGGTCTGATGTCGGCTACCATCAGCTGTAAGAGTTTGCAGACTACTTTGCTGTTCTGTTT
AAAACAAGATGAATCCTGCATATATTTTTGAAGTGGAAGGCAAGCCCCATTGAGTTGAAGAGTATTATCT
TAATGATTTGGAGCACATTCATCATAGCAAGCTCTCTCCTCATCTCCTGGAGGAACCGGTGATAACTAAG
GATATATATGAAGTTGCTGTCTCTCATTAGATGTTTGATGACTTGGATATGAAGGAGAGTGGGAACA
AGGCTTGGTCGGGGGCCAGTTTGTGTTGGAGCGAAGCAGTGTGTTGGTGTGTTTGGCAGGTCTGGGTGA
AATAAATTATATGCATGAACTTCTCACAAGCCTGGTTCATAAAAGGTTGCAGGTCTATCCACTCCATTCA
AGTGTGGCTTTAGAAGAACAGAATAATGTCTTTTAAAGTCCAGTCCCTGGGTACAGAAAGATTATTCTGT
CCACCAATATTGCAGAGAGTTCTGTACAGTTCAGATGTCAAATATGTTATAGATTTTTGTTTGACTAG
AACTTTGCTGTGATGAAGATACAAATTATCAGAGTCTGCGATTGAGTTGGGCTCTAAAACAGCTGT



[View online »](#)

AATCAGAGAAAAGGCCGTGCTGGACGAGTGTCTAGAGGGTACTGTTACCGGCTGGTACACAAGGATTTCT
 GGGACAACCTCCATCCCTGATCATGTTGTTCTGAGATGTTGCGTTGTCCATTAGGAAGCACGATCTTGAA
 AGTGAAATTACTTGACATGGGTGAGCCGAGAGCTCTGCTGGCCACTGCCCTTTCCCGCCTGGTCTGAGT
 GACATTGAGCGCACCATCCTTCTACTAAAGGAGTTGGAGCACTTGCAGTGAGTGGGCAGAGAGAAGATG
 AAAACCCCATGATGGTGAATTGACCTTCTTAGGAAGAGTTTTAGCCCACTTCTGTAAATCAGCAACT
 TGGTAAACTCATAGTCCTTGGACATGTATTGGATGTCTAGATGAATGTCTTATTATAGCGGCAGCTCTT
 TCTTTGAAGAATTTTTTGAATGCCTTTCCGGCAGCATCTCGATGGATATAGGAACAAAGTGAATTTCT
 CTGGCAGTAGCAAGAGTGACTGTATTGCACCTGTTGAGGCATTTAAACATGGAAGGCTTGACAGACAGAC
 AGGGGAGCTGCGGTACCCGAAGGATGAACCTAATTGGGGACGGTTAAATTACATTCAAATCAAGAGAATT
 AGAGAGGTGGCTGAATTATGAAGAATTGAAGACTAGAATCTCACAGTTCAACATGCATGTTGATTCTC
 GGCGACCTGTCTGACCAAGAGTATATATAAGCAGCGATTTCCTACAGGTTGATTGGCAGGTGC
 TTTCTATCCAATTACTTTACTTTTGGACAGCCGGATGAGGAGATGGCGGTGAGGAGCTGGCTGGCAAG
 GACCCCAAGACAACGTGCGTGTGAAACACATTCTCCCTATGGATTTCTTTACTATAAACAACACAGT
 CTCTCTTTAGACAGTGTGGTCAAGTCAAATCCATTGTATTGATGGTGCAAAAGCCTTTGTGGAATTCTC
 ACGAAATCCAACAGAGAGATTTAAACCTTCTCGAGTATATATGGCAATTAAGATGTCTCAACTAAAA
 GTTTCACCTGAACTCAGCGTTCATTCTGCAGAGGAAATTGAAGGGAAGGTGCAAGGCATGAACGTCTCAA
 AGCTCAGGAACACAAGGGTGAATGTGGACTTCCAGAAGCAGACGGTAGATCCTATGCAAGTCTCCTTTAA
 CACATCAGACAGGTCCCAGACAGTTACAGATCTCCTTCTAACTATTGATGTACAGAGGTGGTTGAAGTG
 GGACACTTTTGGGGATACAGGATTGATGAAAACAACCTCAGAGATTCTGAAAAAGCTTACTGCTGAAATCA
 ACCAACTGACGCTGGTGCCCTTGCCCACTACCCACATCCAGACTTGGTCTGTCTGGCACCTTTTGTCTGA
 TTTTGATAAACAACGCTACTTTAGAGCTCAAGTCTTTATGTTTCTGGAAATTCTGCTGAGGTATTCTTT
 GTAGATTATGGCAATAAGTCTCATGTAGATCTACATCTTTGATGGAGATTCCCTGTCAATTTCTTGAAC
 TTCTTTCCAGGCTTTGGAATTTAAGATTTGCAAAATGAGACCATCAGCAAAGTCTCTGTTTGTGGCAA
 GCACTGGAGTGACGGGGCCAGCCAGTGGTTCGCCCTCTCTGGTGAGCGGCTGCACCTCCTTGTGAAGGTC
 TTCTCTGTGGTGACAGCGTCTGCACGTGGATGTGTACCACTACTCAGGGGTCCAGGATGCCATCAACA
 TAAGAGACGTCTCATCCAGCAGGGCTATGCCGAGCTCACGGAGGAGTCTACGAGTCCAAGCAAAGCCA
 TGAAGTTCTCAAGGGCTCTTTTCCAAGTCAGTAGAAAACATGACAGATGGCTCTGTGCCCTTTCCCATG
 AAAGACGACGAGAAATATCTCATCCGATTTTGTAGAGAGCTTTTCTACCAATAAACTGGGTACTCCAA
 ACTGTAAGGCAGAACTTACGGGCCTTTTAACCCTTATGAACTAAAGTGCCATAGTTTGACCAGAATATC
 CAAATTCAGGTGTGTTTGGATTGAGAAGGAGAGCATCAACTCTGTCATTATCAGTGACGCCCTGAAGAC
 CTTACCAGAGAATGCTGGTTGCAGCTTCCCTTTCCATCAATGCGACTGGATCTACGATGCTGCTGAGAG
 AAACCTCTCTGATGCCTCATATCCCTGGCTCCCGGCTCTCTCAGCATGTTATTCGCACCGGTGATAGA
 GTTAAGGATTGATCAGAATGGCAAGTACTATACTGGAGTCTTTGTGGTTTGGGGTGAATCCAGCTACA
 GGGGCTTCCATACTGCCCAGACGACATGGAGCTTGCCTTTGACGTTCAATTACGCGTGGAGGATGTCTG
 TCGAGGTAAATATTCTCAGGGCTGCTATTAACAAGCTAGTCTGTGATGGACCAAAATGGATGCAAGTGTCT
 TGGGCCAGAGAGAGTTGCGCAGCTTCAAGACATTGCCCGTCAGAAGCTTTTAGGTTTGTCTGTCACTCA
 AAACCAAGGGAGAAGATTGTTCCCAAGTGGCATGAAAAGCCCTACGAGTGAATCAGGTTGATCCAAAGC
 TGGTCAATGGAGCAGGCCGACCGTGAGAGCAGCAGAGGGAAGAACACCTTTCTCTACCAGCTCCACAACT
 GTTGTGCTCGGCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219472 representing NM_153046
Red=Cloning site Green=Tags(s)

MLRKLTIQINDWFTIGKTVTNVELLGAPPAFPAGAAREEVQRQDVAPGAGPAAQAPALAQAPARPAAAF
ERSLSQRSSEVEYINKYRQLEAQELDVCRSVQPTSGPGPRPSLAKLSSVTCIPGTTYKYPDLPISRYKEE
VVSLLIESNSVVIHIGATGSGKSTQLPQYILDHYVQRSAYCSIVVTQPRKIGASSIARWISKERAWTLGGV
VGYQVGLKIEATEDTRLIYMTTGVLQKIVSAKSLMEFTHIIIDEVHERTEEMDFLLLVVRKLLRTNSRF
VKVVLMSATISCKEFADYFAVPVQNMNPAYIFEVEGKPHSVVEEYLLNDLEHIIHHSKLSPHLLEEPVITK
DIYEVAVSLIQMFDDLDKESGNKAWGAQFVLERSSVLVFLPGLGEINYMHELLTSLVHKRLQVYPLHS
SVALEEQNNVFLSPVPGYRKIILSTNIAESSVTPDVKYVIDFCLTRTLVCEDEDNYQSLRLSWASKTSC
NQRKGRAGRVSRGYCYRLVHKDFWNSIPDHVPEMLRCPLGSTILKVLLDMGEPRALLATALSPPGLS
DIERTILLKEVGALAVSGQREDENPHDGELTFLGRVLAQLPVNQQLGKLIVLGHVFGCLDECLIAAAL
SLKNFFAMPFRQHLGDRNKNVNSGSSKSDCIALVEAFKTKACRQTGELRYPKDELNWGRNLIYQIKRI
REVAELYEELKTRISQFNMHVSRRPVMQDEYIYKQRFILQVVLGAFYPNYFTFGQPDEEMAVRELAGK
DPKTTVVCLKHIPPYGFLLYKQLQSLFRQCGQVKSIVFDGAKAFVEFSRNPTERFKTLPAYVMAIKMSQLK
VSLELSVHSAEEIEGKVQGMNVSKLRNTRVNVDFQKQTVDPMQVSFNSTSDRSQTVTDLLLTIDVTEVVEV
GHFWGYRIDENNSEILKKLTAEINQLTLVPLTPHHPDLVCLAPFADFQKQRYFRAQVLVYSGNSAEVFF
VDYGNKSHVDLHLLMEIPCQFLELPFQALEFKICKMRPSAKSLVCGKHWSHGASQWFAVSLVSGCTLLVKV
FSVVHSLVHVDVYQYSGVQDAINIRDVL IQQGYAELTEESYESKQSHVLLKGLFSKSVENMTDGSVPFPM
KDDEKYLIRILLESFSTNKLGTNPCKAELHGPFPYELKCHSLTRISKFRVCWIEKESINSVVISDAPED
LHQRMLVAASLSINATGSTMLLRETSLMPHIPGLPALLSMLFAPVIELRIDQNGKYTGVLCGLGWNPAT
GASILPEHDMELAFDVQFSVEDVVEVNILRAAINKL VCDGPNCGCKCLGPVERVAQLQDIARQKLLGLFCQS
KPREKIVPKWHEKPYEWNQVDPKLVMEQADRESSRGKNTFLYQLHKLVLVLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

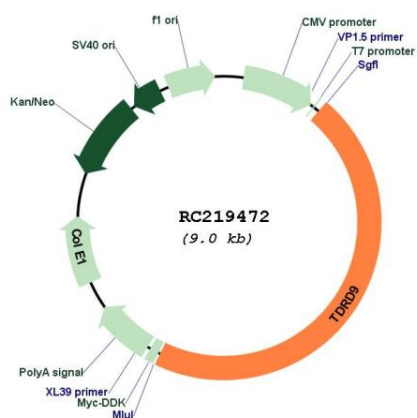


ACCN: NM_153046

ORF Size: 4146 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_153046.2 , NP_694591.2
RefSeq Size:	4782 bp
RefSeq ORF:	4149 bp
Locus ID:	122402
UniProt ID:	Q8NDG6
Cytogenetics:	14q32.33
MW:	155.5 kDa
Gene Summary:	ATP-binding RNA helicase required during spermatogenesis (PubMed:28536242). Required to repress transposable elements and prevent their mobilization, which is essential for the germline integrity. 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 governs the methylation and subsequent repression of transposons. Acts downstream of piRNA biogenesis: exclusively required for transposon silencing in the nucleus, suggesting that it acts as a nuclear effector in the nucleus together with PIWIL4. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219472