

## Product datasheet for **SC121069**

### TDRD9 (NM\_153046) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TDRD9 (NM_153046) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDRD9
Synonyms:	C14orf75; HIG-1; HLS; NET54; SPGF30; SPNE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153046, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCGGAAGCTCACCATCGAGCAGATCAACGACTGGTTCACCATCGGCAAGACGGTGACCAATGTGG
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AGTGAAATTA CTTGACATGGGTGAGCCGAGAGCTCTGCTGGCCACTGCCCTTTCCCCGCCTGGTCTGAGT  
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GGTTGTCTCGGCACCTGA

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_153046 unedited</p> <pre>GCATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGAGCGTGCCTGGAC CCTGGGAGGTGTGGTGGGCTACCAGGTAGGGCTANGAGAAAATAGCAACAGAGGACACCA GGCTAATTTATATGACAACCTGGAGTCTGCTTCAGAAAATAGTTAGTGCCAAGAGTTTGA TGGAAATCACACATATCATCATTGATGAAGTACACGAACGAAGAAGAAATGGATTTCC TGCTATTGGTAGTCCGCAAACCTTAAGAACAAATTCAGTTTTGTGAAGGTGGTCTGA TGTCGGCTACCACAGCTGTAAGAGTTGCAGACTACTTTGCTGTTCCGTTCAAAACA AGATGAATCCTGCATATATTTTTGAAGTGAAGGCAAGCCCATTGAGTTGAAGAGTATT ATCTTAATGATTTGGAGCACATTCATCATAGCAAGCTCTCTCCTCATCTCCTGGAGGAAC CGGTGATAACTAAGGATATATATGAAGTTGCTGTCTCTCATTGAGATGTTTGTGACT TGGATATGAAGGAGAGTGGGAACAAGGCTTGGTCGGGGGCCAGTTTGTGTTGGAGCGAA GCAGTGTGTTGGTGTGTTTTGCCAGGTCTGGGTGAAATAAATTATATGCATGAACTTCTCA CAAGCCTGGTTCATAAAAGGTTGCAGGTCTATCCACTCCATTCAAGTGTGGCTTTAGAAG ACAGAAATATGTCTNTTTAAGTCCAGTCCCTGGGTACAGAAAGATTATTCTGTNACCAA TATTTGCAGAGAGTTCTGTCACANGTCCAGATGTCAAATATGTTATAGATTNTTGGTTGA CTAGAACCTTGGTCTGTGATGAAGATACCCAATATCAGAGTCTGCGATTGAGTTGGGCT CTAAAT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_153046 unedited</p> <pre>NGAGCACTGGGGNAGTGGGTCACAGGGCATGCCACCCGGGCACTGTTGAGAAAAGCTAT GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATTTAATGCTTTTAT TGTTTTAACACAGATAAGCTATGGCCATGTAATCTGTAATCTCTGATTTCCAAAATGTGA ACCAAGAAGTATAACTCAACTTAGTCTTATAAAAATTAGATATTTCCCTCATGGAAAAA AAAATCAGAAAATACTACATGGTTTTTTTGTGTTTTTAAGTTTTTCTATACTACTGGTT TAAATCACTGTAAACAGAACAGAATATGTAAGCACATTCTGGAACCTTACATCTAAGATTA ACTACTTATATTTACCTTAATAAATTTAAAGCAAATAACAGCTCTTTATCCAAACAGACT TCTTTCAGAACAAATCTTTCCAAAATATTTAATACAGTGATTTTTCTGTTTCTAGAAAAGAC TAGAGTTTTCCAATCCTTCCCACCTGAACAAAAACACCCTCTCTGACTATCACCCAAAGA GAAAAGAAGAAAAGAAAGGCCTTTAGGATGCAGTGGGCACAGACTGTAACACCCAGACAC AGAGGAAAGTCAGTCTGCGGAGGGAGCCTGGAATCCAGCCTCCACAGCTTCCCGAGGGGT GTGCTGGAGGCCACCTGTGGACATGCTCAGGTGCCGAGCACAACCAGTTTGTGGAGCTGG TAGAGAAGGTGTTCTTCCCTCTGCTGCTCTCACGGTCGGCCTGCTCCATGACCAGCTTTG GATCAACCTGATTCCACTCGTAGGGCTTTTCATGCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_153046
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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.

**RefSeq:** [NM\\_153046.1](#), [NP\\_694591.1](#)

**RefSeq Size:** 4782 bp

**RefSeq ORF:** 4782 bp

**Locus ID:** 122402

**UniProt ID:** [Q8NDG6](#)

**Cytogenetics:** 14q32.33

**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]