

## Product datasheet for **SC316244**

### TDRKH (NM\_001083963) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TDRKH (NM\_001083963) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TDRKH  
**Synonyms:** TDRD2  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001083963, the custom clone sequence may differ by one or more nucleotides

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ATGTCTACTGAACGGACTTCTTGGACAAGCCTGTCCACCATTTCAGAAAATAGCCCTGGGC
CTTGGGATCCCAGCCAGTGCAACAGTTGCCTATATCCTATACCGCAGGTATAGGGAAAGC
AGAGAAGAGCGGCTGACATTTGTTGGGGAAGATGACATTGAGATAGAGATGCGGGTTCCC
CAGGAGGCTGTGAACTCATCATTGGCCGGCAAGGAGCCAATATTAACAGCTGCGGAAA
CAGACAGGTGCTCGGATTGATGTGGACACAGAGGATGTAGGCGATGAGCGAGTGTGCTT
ATCAGTGGTTTTCTGTTCAGGTGTGCAAGGCCAAAGCAGCAATCCATCAGATCCTGACA
GAGAATACCCAGTGTCTGAGCAGCTTTCAGTTCCCGAGAGATCTGTGGGCAGAATCATA
GGGAGAGCGCGGAGACAATTCGTTCTATCTGTAAAGCATCTGGAGCCAAAATTACTGT
GACAAAGAATCAGAAGGGACATTACTACTATCAAGACTTATAAAAATCTCAGGAACACAG
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CGGAAGAGAATTGCTCATTCTGCAGAAACCAGGGTCCCACGCAACAGCCAATCAGTGTG
AGAAGAGAAGACATGACAGAGCCAGGTGGAGCTGGAGAGCCAGCATTATGGAAAAACACC
AGTTCTAGCATGGAGCCGACTGCACCCCTGGTACTCCTCCACCCAAAGGAGGAGGCGAC
ATGGCTGTGGTAGTGTCAAAGGAAGTTCTGGGAGAAACCTAGTGATGACAGCTTTCAG
AAGTCTGAAGCCAGGCCATCCCAGAGATGCCCATGTTTTGAAATCCCGAGTCTGACTTC
AGTTTTCATGCTGATGAGTACCTAGAAGTCTACGTTTCTGCTTCTGAGCACCCCTAACCA
TTCTGGATCCAGATCGTTGGCTCCCGCAGCCTGCAATTGGATAAGCTTGTCAATGAGATG
ACCCAGCACTATGAGAATAGTGTGCCTGAAGACTTGACTGTGCATGTAGGAGACATTGTA
GCAGCACCTTTACCTACAAATGGTTCTGGTATCGAGCCCGGGTCTCGGCACCTTGGAG
AATGGGAAGTGGACCTCTATTTTGTGACTTTGGAGATAATGGAGATTGCCCACTGAAG
GACCTCAGGGCTCTCAGGAGTACTTCTAAGCCTTCCATTTCAAGCAATAGAATGTAGT
CTGGCACGGATTGCTCCCTCAGGTGACCAGTGGGAAGAGGAAGCTTTGGATGAGTTTGTG
AGACTCACTCATTGTGCTGACTGGAAGCCTCTGGTAGCCAAGATCTCTAGCTATGTCCAG
ACTGGGATCTCAACTGGCCAAAGATCTACTTATATGATACTAGCAATGGGAAGAAACTT
GATATTGGGCTAGAATTAGTACACAAAGGATACGCAATTGAGCTTCTGAAGACATAGAA
GAAAACAGAGCTGTCCCAGACATGTTGAAGGACATGGCCACAGAAAACAGATGCCTCTCTC
AGCACGTTGCTCACTGAGACCAAAAAGAGCTCTGGAGAGATAACACATACCCTGCTCTGC
CTCAGCTTATCAGAAGCTGCTCCATGTCTGGTGTGATAACCTTGAAGATGACTACTTA
CTC
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001083963
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001083963.1</a></u> , <u><a href="#">NP_001077432.1</a></u>
<b>RefSeq Size:</b>	2829 bp
<b>RefSeq ORF:</b>	1686 bp
<b>Locus ID:</b>	11022
<b>UniProt ID:</b>	<u><a href="#">Q9Y2W6</a></u>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	Participates in the primary piRNA biogenesis pathway and is required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for the germline integrity. The piRNA metabolic process 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 the final steps of primary piRNA biogenesis by participating in the processing of 31-37 nt intermediates into mature piRNAs. May act in pi-bodies and piP-bodies by transferring piRNA precursors or intermediates to or between these granules.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 all encode isoform a.