

## Product datasheet for **SC310221**

### TDRKH (NM\_006862) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TDRKH (NM_006862) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDRKH
Synonyms:	TDRD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310221 representing NM\_006862.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTCTACTGAACGGACTTCTTGGACAAGCCTGTCCACCATTAGAAAATAGCCCTGGGCCTTTGGGATC
CCAGCCAGTGCAACAGTTGCCTATATCCTATACCGCAGGTATAGGAAAGCAGAGAAGAGCGGCTGACA
TTTGTTGGGGAAGATGACATTGAGATAGAGATGCGGGTTCGCCAGGAGGCTGTGAAACTCATCATTGGC
CGGCAAGGAGCCAATATTAACAGCTGCGGAAACAGACAGGTGCTCGGATTGATGTGGACACAGAGGAT
GTAGGCGATGAGCGAGTCTGCTTATCAGTGGTTTTCTGTTTCAGGTGTGCAAGGCCAAAGCAGCAATC
CATCAGATCCTGACAGAGAATACCCAGTGTCTGAGCAGCTTTCAGTTCCCCAGAGATCTGTGGGCAGA
ATCATAGGAGAGGGCGGAGACAATTCGTTCTATCTGTAAGGCATCTGGAGCCAAAATTACCTGTGAC
AAAGAATCAGAAGGGACATTACTACTATCAAGACTTATAAAAATCTCAGGAACACAGAAGGAAGTGGCA
GCAGCCAAGCATTGATACTGGAGAAAGTTTCAGAAGTGAAGAACTTCGGAAGAGAATTGCTCATTCT
GCAGAAACCAGGGTCCCACGCAACAGCCAATCAGTGTGAGAAGAGAAGACATGACAGAGCCAGGTGGA
GCTGGAGAGCCAGCATTATGGAAAAACACAGTTCTAGCATGGAGCCGACTGCACCCCTGGTGACTCCT
CCACCCAAAGGAGGAGGGCAGATGGCTGTGGTAGTGTCAAAGGAAGGTTCTGGGAGAAACCTAGTGAT
GACAGCTTTCAGAAGTCTGAAGCCAGGCCATCCAGAGATGCCCATGTTTGAATCCCCAGTCTGAC
TTCAGTTTTATGCTGATGAGTACCTAGAAGTCTACGTTTCTGCTTCTGAGCACCCCTAACCACTTCTGG
ATCCAGATCGTTGGCTCCCGCAGCCTGCAATTGGATAAGCTTGTCAATGAGATGACCCAGCACTATGAG
AATAGTGTGCCTGAAGACTTGACTGTGCATGTAGGAGACATTGTAGCAGCACCTTACCTACAAATGGT
TCCTGGTATCGAGCCCGGGTCTCGGCACCTTGAGAAATGGAACTTGGACCTCTATTTTGTGACTTT
GGAGATAATGGAGATTGCCCACTGAAGGACCTCAGGGCTCTCAGGAGTACTTCTAAGCCTTCCATTT
CAAGCAATAGAATGTAGTCTGGCACGGATTGCTCCCTCAGGTGACCAGTGGGAAGAGGAAGCTTTGGAT
GAGTTTGTAGACTCACTCATTGTGCTGACTGGAAGCCTCTGGTAGCCAAGATCTCTAGCTATGTCCAG
ACTGGGATCTCAACTTGGCCAAAGATCTACTTATATGATACTAGCAATGGGAAGAAAATTGATATTGGG
CTAGAATTAGTACACAAAGGATACGCAATTGAGCTTCTGAAGACATAGAAGAAAACAGAGCTGTCCCA
GACATGTTGAAGGACATGGCCACAGAAACAGATGCCTCTCTCAGCACGTTGCTCACTGAGACCAAAAAG
AGCTCTGGAGAGATAACACATACCCTGTCTGCCTCAGCTATCAGAAGCTGCTTCCATGTCTGGTAT
GATAACCTTGAAGATGACTACTTACTTGA
ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_006862

**Insert Size:** 1686 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** 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.

**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).

<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>	<a href="#">NM_006862.3</a>
<b>RefSeq Size:</b>	2343 bp
<b>RefSeq ORF:</b>	1686 bp
<b>Locus ID:</b>	11022
<b>UniProt ID:</b>	<a href="#">Q9Y2W6</a>
<b>Cytogenetics:</b>	1q21.3
<b>Domains:</b>	TUDOR, KH, TUDOR
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	62 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR compared to variant 1. Variants 1, 2, and 3 all encode isoform a.</p>