

Product datasheet for **MR208874**

Tdrkh (NM_028307) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tdrkh (NM_028307) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tdrkh
Synonyms:	2700091C21Rik; Tdrd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208874 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCACTGAACGAACCTTCATGGACAAACCTGTCCACTATTCAGAAAATAGCCCTGGGCCTAGGAATTC
 CAGCAAGTGCAACAGTTGCCTACATTCTGTATCGTCGATATAGGGAAAGCAGAGAAGAGAGATTGACATT
 TGTGGAGAAGATGACATTGAGATAGAGATGCGAGTCCCCAGGAGGCTGTGAAGCTCATATTGGTTCGA
 CAAGGAGCCAATATTAACAGTTGCGGAAACAGACAGGCGCGGATTGATGTGGACACAGAGGTAGTAG
 GCGATGAGCGAGTGTCTTATCAGTGGTTTCTGTTCAGGTGTGCAAGGCCAAAGCAGCAATCCATCA
 GATTCTGACAGAAAACACCCAGTGTGGAGCACTCTCAGTCCCTCAGAGATCTGTGGCAGAATCATA
 GGGAGAGGCGGTGAGACGATTCTTCTATCTGTAAGGCTTCTGGAGCCAAAATCACTTGCACAAAGAAT
 CAGAGGGAACGTTACTACTCTCACGACTATAAAAATCTCAGGAACACAGAAGGAAGTGGCAGCAGCTAA
 GCATCTGATACTGGAGAAAGTTTCAGAAGATGAAGAACTTCGGAAGAGAATTGCCATTCTGCAGAAACC
 AGAGTCCACGAAAGCAGCAATCAGTGTGAGAAGAGAGGAAGTACAGAGCCTGGTGGAGCTGGAGAAG
 CAGCTTTATGAAAAATACCAATTCTAGCATGGGACCAGCTACACCCCTGGAAGTTCCTCTCCGCAAAGG
 AGGTGGTGATATGGTTGTTGTAGGACAAAAGAAGTTCTGGGAGAAACCTAATGATGACAGCTTTCAG
 AATTCTGGTGCCAGAGCAGTCCAGAGACGTCCATGTTTGAATTCACAGTCTGACTTCAGTTCCATG
 CTGATGAGTACCTAGAAGTCTACGTTTCTGCTTCTGAACCCCTAATCACTTCTGGATCCAAATCATTGG
 TCCCCGACGCTGCAGTTGGATAAACTTGTCAGTGAGTAGCCAGCACTATGAGAATAGTCTGCCTGAA
 GACTTGACTGTGCATGTAGGAGACATTGTAGCAGCACCTTTATCTACAAATGGTTCCTGGTATCGAGCCC
 GGGTTCTTGGAACCTTGAAAAATGGAACTTGGACCTCTACTTTGTTGACTTTGGAGATAATGGAGATTG
 TGCACTAAAGGATCTCAGGGCTCTCAGGAGTGACTTTCTAAGCCTCCATTTCAGCAATAGAATGCAGT
 CTGGCACGGATTGCCCCACAGGTGAAGAGTGGGAAGAGGAAGCTCTAGATGAGTTTGACAGACTCACTC
 ACTGTGCTGACTGGAAGCCCTGGTGGCCAAGATTTCTAGCTATGTCCAGACTGGAATCTCAACTTGGCC
 AAAGATCTATTTGTATGATACCAGTGTGAGAAGAACTTGTATTTGGGCTAGAATTAGTTCGTAAGGG
 TATGCAGTTGAACTTCTGAAGACATGGAAGAAAAAGAACTGTCCAAATATGTTGAAGGACATGGCCA
 CAGAAACAGATGATTCTTGAAGCATACTCACTGAAACAAAAAGAGCCCTGAAGAGATGCCACATAC
 CCTGCTCCTCAGCTTGTGAGAAGCTGCCTCTATGCTGGTGTGATAACCTGAAGACGACTTATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208874 protein sequence
 Red=Cloning site Green=Tags(s)

MSTERTSWTNLSTIQKIALGLGIPASATVAYILYRRYRESREERLTFVGEDDIEIEMRVPQEAVKLIIGR
 QGANIKQLRKQTGARIDVDTEDVGDERVLLISGFVQVCKAKAAIHQILTENTPVFEQLSVPQRSVGRII
 GRGGETIRSICKASGAKITCDKESEGLLLSRLIKISGTQKEVAAAKHLEKVSSEDEELRKRIHSAET
 RYPRKQPI SVRREEVTEPGGAGEAALWKNTNSSMGPATPLEVPLRKGGDMVVVGPKEGSWEKPNDSSFQ
 NSGAQSSPETSMEFIPSPDFSFHADYEYVVSASEHPNHFWIQIIGSRSLQLDKLVSEMTQHYENSLPE
 DLTVHVGDIVAAPLSTNGSWYRVRVLTLENGNLDLYVDFDNGDCALKDLRALRSDFLSLPFQAI ECS
 LARIAPTGEWEEALDEFDRLTHCADWKPLVAKISSYVQTGISTWPKIYLYDTSDEKKLDIGLELVRKG
 YAVELPEDMEENRTVPNMLKDMATETDDSLASILTETKKSPEEMPHTLSCLSLSEAASMSGDDNLEDDL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_028307

ORF Size: 1683 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.

RefSeq: [NM_028307.2](#)

RefSeq Size: 2665 bp

RefSeq ORF: 1683 bp

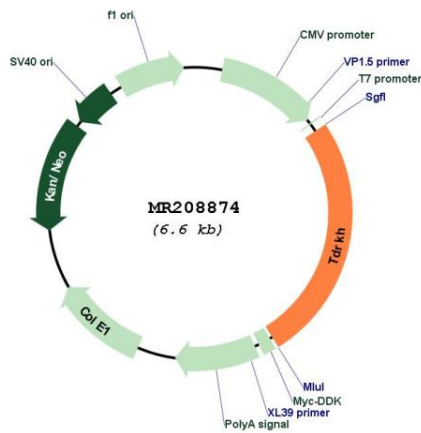
Locus ID: 72634

UniProt ID: [Q80VL1](#)

Cytogenetics: 3 F2.1
 MW: 62.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR208874