

Product datasheet for **RG219805**

TDRKH (NM_006862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDRKH (NM_006862) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TDRKH
Synonyms:	TDRD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219805 representing NM_006862
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTACTGAACGGACTTCTTGACAAGCCTGTCCACCATTAGAAAATAGCCCTGGGCCCTGGGATCC
 CAGCCAGTGCAACAGTTGCCTATATCCTATACCGCAGGTATAGGGAAAGCAGAGAAGAGCGGCTGACATT
 TGTGGGGAAGATGACATTGAGATAGAGATGCGGGTCCCCAGGAGGCTGTGAAACTCATCATTGGCCGG
 CAAGGAGCCAATATTAACAGCTGCGGAAACAGACAGGTGCTCGGATTGATGTGGACACAGAGGATGTAG
 GCGATGAGCGAGTGTCTTATCAGTGGTTTTCTGTTCAAGTGTGCAAGGCCAAAGCAGCAATCCATCA
 GATCCTGACAGAGAATACCCAGTGTCTGAGCAGCTTTCAGTCCCCAGAGATCTGTGGCAGAATCATA
 GGGAGAGGCGGAGACAATTCGTTCTATCTGTAAGGCATCTGGAGCCAAAATTACCTGTGACAAAGAAT
 CAGAAGGGACATTACTACTATCAAGACTTATAAAAATCTCAGGAACACAGAAGGAAGTGGCAGCAGCCAA
 GCATTTGATACTGGAGAAAGTTTCAGAAGATGAAGAACTTCGGAAGAGAATTGCTCATTCTGCAGAAACC
 AGGGTCCACGCAACAGCCAATCAGTGTGAGAAGAGAAGACATGACAGAGCCAGGTGGAGCTGGAGAGC
 CAGCATTATGGAAAAACACCAGTTCTAGCATGGAGCCGACTGCACCCCTGGTGACTCCTCCACCCAAAGG
 AGGAGGCGACATGGCTGTGGTAGTGTCAAAGGAAGGTTCTGGGAGAAACCTAGTGATGACAGCTTTCAG
 AAGTCTGAAGCCCAGGCCATCCCAGAGATGCCCATGTTTGAATCCCCAGTCTGACTTCAGTTTTCATG
 CTGATGAGTACCTAGAAGTCTACGTTTCTGCTTCTGAGCACCTAACCACCTTCTGGATCCAGATCGTTGG
 CTCCCGCAGCCTGCAATTGGATAAGCTTGCAATGAGATGACCCAGCACTATGAGAATAGTGTGCCTGAA
 GACTTGACTGTGCATGTAGGAGACATTGTAGCAGCACCTTACCTACAAATGGTTCCTGGTATCGAGCCC
 GGGTCTCGGCACCTTGGAGAATGGGAACCTGGACCTCTATTTTGTGACTTTGGAGATAATGGAGATTG
 CCCACTGAAGGACCTCAGGGCTCTCAGGAGTGACTTCTTAAGCCTTCCATTTCAAGCAATAGAATGTAGT
 CTGGCACGGATTGCTCCCTCAGGTGACCAGTGGGAAGAGGAAGCTTTGGATGAGTTTGATAGACTCACTC
 ATTGTGCTGACTGGAAGCCTCTGGTAGCCAAGATCTCTAGCTATGTCCAGACTGGGATCTCAACTTGGCC
 AAAGATCTACTTATGATACTAGCAATGGGAAGAACTTGATATTGGGCTAGAATTAGTACACAAAGGA
 TACGCAATTGAGCTTCTGAAGACATAGAAGAAAACAGAGCTGTCCAGACATGTTGAAGGACATGGCCA
 CAGAAACAGATGCCTCTCTCAGCACGTTGCTCACTGAGACCAAAAAGAGCTCTGGAGAGATAACACATAC
 CCTGTCCTGCCTCAGCTTATCAGAAGCTGCTTCCATGTCTGGTGTGATAACCTGAAGATGACTACTTA
 CTCGGAAGTCTGGGCTTCAGTTTGTCTCAGCCATCTGCTTTGCTGTATGTTGCCTGCAATGAAGTCTGTA
 AGCATGCTCAGCCCTGGAAGTGGTGTACCAGAGTTCCGTAGGGAACCTTACTCTTTAGAGTTCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219805 representing NM_006862
 Red=Cloning site Green=Tags(s)

MSTERTSWTSLSTIQKIALGLGIPASATVAYILYRRYRESREERLTFVGEDDIEIEMRVPQEAVKLIIGR
 QGANIKQLRKQTGARIDVDTEVDGERVLLISGFVQVCKAKAAIHQILTENTPVSEQLSVPQRSVGRRI
 GRGGETIRSICKASGAKITCDKESEGLLLSRLIKISGTQKEVAAAKHLEKVSDEELRKRIAHSJET
 RVPRKQPI SVRREDMTEPGGAGEPALWKNTSSSMEPTAPLVTPPKGGDMAVVVSKEGSWEKPSDDSFQ
 KSEAQAIPMPMFEIPSPDFSFHADEYLEVYVSASEHPNHFVIQIVGSRSLQLDKLVNEMTQHYENSVPE
 DLTVHVGDIVAAPLPTNGSWYRVRVLTLENGLDLYFVDFDNGDCPLKDLRALRSDFLSLPFQAI ECS
 LARIAPSGDQWEEELDEFDRLTHCADWKPLVAKISSYVQTGI STWPKIYLYDTSNGKLDIGLELVHKG
 YAIELPEDIEENRAVPDMLKDMATETDASLSTLLTETKKSSGEITHTLSCLSLSEAAASMSGDDNLEDDYL
 LGS LGF SLLSHLLCCMLPAMNSLKHAQPWNWCYQSSVGNLYSLEVP

TRTRPLE – GFP Tag – V

Restriction Sites:

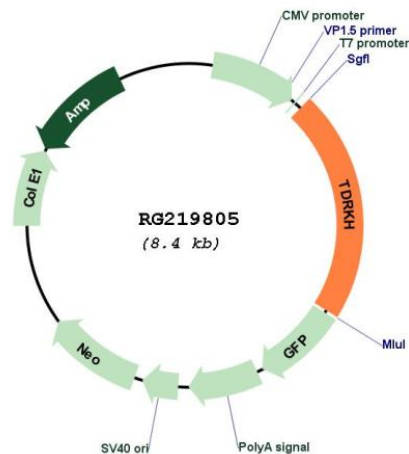
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_006862
 ORF Size: 1818 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:	<ol style="list-style-type: none">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_006862.2 , NP_006853.1
RefSeq Size:	2331 bp
RefSeq ORF:	1686 bp
Locus ID:	11022
UniProt ID:	Q9Y2W6
Cytogenetics:	1q21.3
Domains:	TUDOR, KH, TUDOR
Protein Families:	Transmembrane
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]