

## Product datasheet for **RG207493**

### DTWD1 (NM\_020234) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DTWD1 (NM_020234) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DTWD1
Synonyms:	MDS009
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207493 representing NM_020234 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTCAATCCACCTATATTTCTCAAACGAAGTGAAGAAAATAGTTCAAAATTTGTGGAAACAAAAC  
AGTCACAACTACTTCCATAGCTTCAGAAGATCCCCTTCAAACCTATGTTTAGCATCTCAAGAAGTTCT  
TCAAAAAGCTCAGCAAAGTGGGAGATCAAATGTCTCAAATGGTGGTCCAGAATGTTCTACTGCTAT  
ACATGTTATGTTCCAGTTGAAAATGTACCTATTGAACAGATTCCACTTGTGAAGCTTCCATTGAAGATTG  
ACATCATTAAACATCAAATGAAACAGATGGCAAAAGTACTGCTATACATGCAAACTCTTAGCACCTGA  
ATTTGTAAACATTTACAGTATCCGTGTATTCCAGAATATGAAGAAAAGGACCATGAAGTTGCACCTATT  
TTTCTGGACCTCAGTCTATCTCAATAAAAAGATATTTCTTTTCATCTGCAAAAAGGATTCAAAAATATG  
TTAGAGGCAAAAATGATGACCCTGACAAGCCATCTTTAAACGCAAAAAGAACTGAAGAACAAGAGTTCTG  
TGATTTGAATGACAGCAAGTCAAAGGCCAACAACCTGAAAAAATATATTTATAGATAGCACCTGGAAC  
CAAACAACAAAATTTCACTGATGAGCGACTTCAAGGTTGTTACAAGTTGAGTTGAAAACAAGAAAAA  
CTTGCTTTTGGCGCCATCAAAAAGGAAAGCCAGATACTTCTTTCTACAATTGAAGCCATTTACTACTT  
TCTGGTAGACTACCATACTGATATATTTAAAAGAGAAAATACAGAGGGCAATATGACAATCTTTATTTTC  
TATTCCTTTATGTACCAGTTGATAAAGAATGCCAATGCTCTGGAGATAAGGAAACAGGAAAACCTTACAC  
AT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207493 representing NM\_020234  
Red=Cloning site Green=Tags(s)

MSLNPPIFLKRSEENSSKFVETKQSQTTSIASEDPLQNLCLASQEVLQKAQQSGRSKCLKCGGSRMFYCY  
 TCYVPVENVPIEQIPLVKLPLKIDIIKHPNETDGKSTAIHAKLLAPEFVNIYTYPCIPYEYEEKDHEVALI  
 FPGPQSSISIKDISFHLQKRIQNNVRGKNDPDKPSFKRKRTEEQEFCDLNDKCKGTTLKKIIFIDSTWN  
 QTNKIFTDERLQGLLQVELKTRKTCFWRHQKGPDTFLSTIEAIYYFLVDYHTDILKEKYRGQYDNLFF  
 YSFMYQLIKNAKCSGDKETGKLTH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020234

**ORF Size:** 912 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_020234.6](#)

**RefSeq Size:** 1233 bp

**RefSeq ORF:** 915 bp

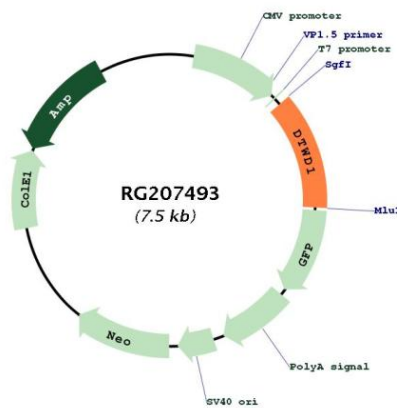
**Locus ID:** 56986

**UniProt ID:** [Q8N5C7](#)

**Cytogenetics:** 15q21.2

**Gene Summary:** Catalyzes the formation of 3-(3-amino-3-carboxypropyl)uridine (acp3U) at position 20 in the D-loop of several cytoplasmic tRNAs (acp3U(20)).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207493