

Product datasheet for **RC216547**

DTWD2 (NM_173666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DTWD2 (NM_173666) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DTWD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216547 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCGCAGAAAGAGGCACGAACACTCCAGGAGCCCGTTGCGCGGCCTTCTGGGGCCTCAAGCTCTC
AGACGCCGAACGACAAGGAGCGGCGGGAGGGCGGCAGTGCCGGCGCGGCTGCCCTGGGCGCAGAGGC
GGACGACGACAGTGCGGACGGGCTGTGGGAGCTGCCGGTGGAGCCGGCCGAGCGGAGGCCTGAGTGCACC
CGCTGCAGCCGGCCTCAGAAAGTGTGTTGTGTCCATTTCTCCAGCGCACCCCTGCATATCTCTACCC
ACTTGTACATAATTGAGCATCCAGCAGAGGAAAACAAAGTGTGGGTACAGTTCCTCTACTAGCAGCATG
CCTCCCCCAGGACAAGTGTAAAGTGAAGATCGGTCGTCGCTTCAGTGAAGAAAGAGATCCTGAACCTTCA
ACTGTTTGCCGGAAGTCTGGTACATTAATATTATATCCAGGGGCTGAAGCTGCTAATTTGGAAGAATTTA
TATTAGATTCTCCTGTTTATCCTTCTACAATCATCATCATTGATGGTACATGGAGCCAGGCTAAGGACAT
TTTCTATAAGAACTCCTTGTCCGACATCCCAAACAGGTGCAATTAATAACTAGCATTCTAGTCAGTAT
GTAATTCGGATGCAGCCGACTAATAGATGCCTTCTACACTGGAGTGTGCAGCTGTTGCTCTTCCATCT
TGGAGAAAATAATTACATAAAGAGACTTTGCTTCGCCCTCTCAAGCTTTATGCTCTTCAACTTCA
GCATGGTGCCCAAATTCGCTCAGCAAGGAACACCTTCTGAAAAATGGATTATATCTAAACCAATGCCA
AAGAACAACGCAAACACTCAGGAAATGGAATTGTTAATGAATAGTGTAAAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216547 protein sequence
Red=Cloning site Green=Tags(s)

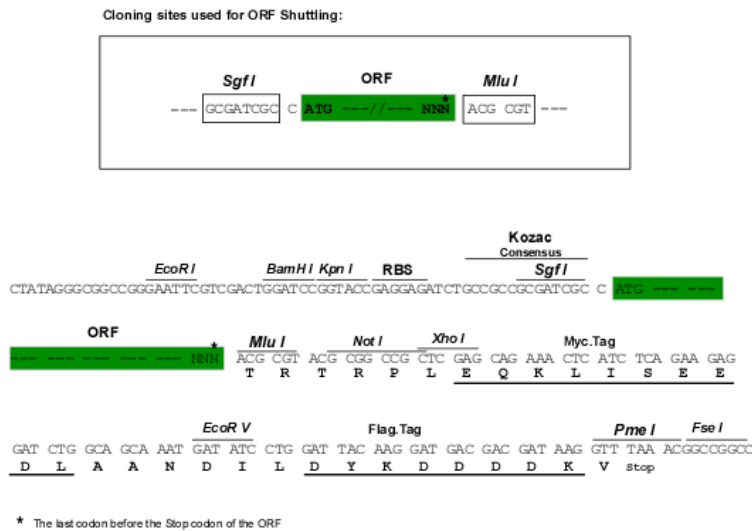
MESQKEARTLQEPVARPSGASSQTPNDKERREGGAVPAAAAALGAEADDDSDAGLWELPVEPAERRPECT
 RCSRPOKVCPCFLPAHPLHISTHLYIIQHPAEENKVLRTVPLLAACLPODKCKVKIGRRFSEERPELS
 TVCRKSGTLILYPGAEANLEEFILDSPVYPSTIIIIIDGTWSQAKDIFYKNSLFRHPKQVQLKTSISSQY
 VIRMQPTNRCLSTLECAAVALSILEKNNYIQETLLRPLQALCSFQLQHGAQIRLSKEHLLKNGLYPKPMP
 KNKRKLRKMELLMNSVKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6444_h01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_173666

ORF Size: 894 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_173666.4](#)

RefSeq Size: 4974 bp

RefSeq ORF: 897 bp

Locus ID: 285605

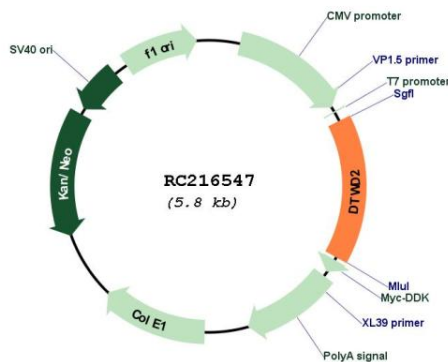
UniProt ID: [Q8NBA8](#)

Cytogenetics: 5q23.1

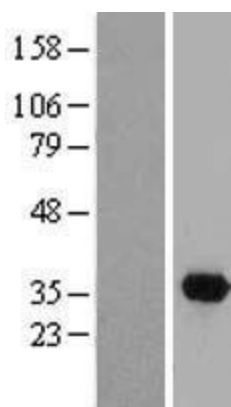
MW: 33.4 kDa

Gene Summary: Catalyzes the formation of 3-(3-amino-3-carboxypropyl)uridine (acp3U) at position 20a in the D-loop of several cytoplasmic tRNAs (acp3U(20a)) (PubMed:31804502). Also has a weak activity to form acp3U at position 20 in the D-loop of tRNAs (acp3U(20)) (PubMed:31804502). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216547



Western blot validation of overexpression lysate (Cat# [LY406548]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216547 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).