

Product datasheet for **RC212399**

C2orf60 (TYW5) (NM_001039693) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2orf60 (TYW5) (NM_001039693) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C2orf60
Synonyms:	C2orf60; hTYW5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212399 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCCGGGCGAGCACCTCCCGGTACCCCGGCTGGAGGGCGTTTCTCGGGAGCAGTTCATGCAGCACCTCT
ACCCACAGAGAAAACCTCTTGTTGGAAGGGATTGATTTGGGGCCATGTACAAGCAAATGGACAGTGGA
TTACCTAAGCCAAGTTGGAGGGAAGAAAGTAAGATTGATGTTGCTGCAGTTGCACAGATGGACTTC
ATTAGTAAGAACTTTGTATATAGAACTTTACCTTTTGACCAGTTGGTCCAGAGGGCAGCTGAAGAGAAAC
ATAAAGAATTCTTTGTTTCAGAGGATGAGAAATACTACTTACGGTCACTTGGAGAAGACCCTAGAAAGGA
TGTTGCAGATATCAGAAAGCAGTTTCCTTTGTTGAAAGGAGATATTAAGTTTCCAGAATCTTCAAAGAG
GAACAGTTCTTTCCAGTGTTTTTCGAATTAGTTCACCAAGGATTACAACATGGACTCATTATGATGTAA
TGGATAATTTGTTAATACAAGTGACAGGAAAAAGCGTGTGTACTCTTCAGTCTCGAGATGCCAGTA
TTTATATTTAAAGGTAATAATCAGAAGTACTGAATATAGATAACCCAGACTTGGCTAAATATCCACTT
TTTCCAAGGCTAGAAGATATGAATGTTCCCTGAAGCTGGTGATGATTATTCATTCTGCTTTATGGT
TCCATAATGTAATTTCTGAAGAGTTTGGAGTGGGAGTGAATATCTTTGGAAGCACCTTCCATCTGAATG
CTATGATAAAACAGATACCTATGGAAACAAAGATCCTACAGCAGCATCAAGAGCTGCACAAATCTGGAC
AGAGCCTTGAAACACTGGCCGAGTTACCAGAGGAATATAGGGACTTCTATGCACGACGAATGGTCCTAC
ACATTCAAGACAAAGCCTACAGCAAGAACTCTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212399 protein sequence
 Red=Cloning site Green=Tags(s)

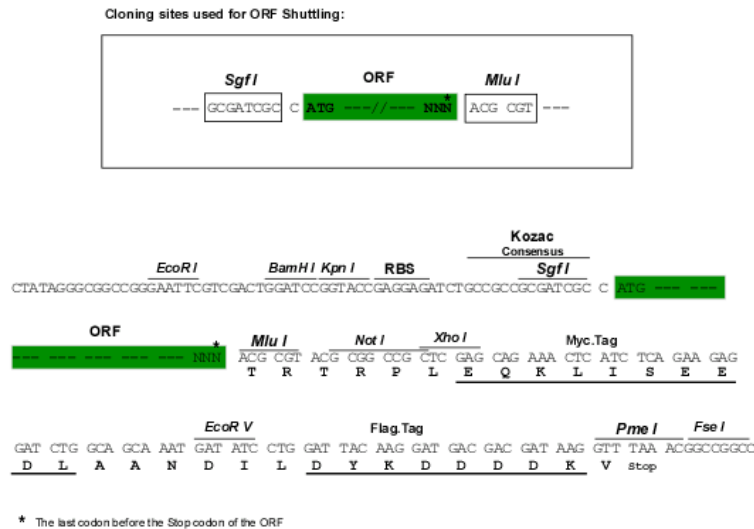
MAGQHLPVPRLEGVSREQFMQHLYPQRKPLVLEGIDLPCTSKWTVDYLSQVGGKKEVKIHVAVAQMDF
 ISKNFVYRTLFPDQLVQRAAEKHKEFFVSEDEKYYLRSLGEDPRKDVADIRKQFLLKGDIKFPEFFKE
 EQFFSSVFRISSPGLQLWTHYDVMNLLIQVTGKKRVVLFSPRDAQYL YLKGTKSEVLNIDNPD LAKYPL
 FSKARRYECSLEAGDVLFI PALWFHNVISEEFGVGVNIFWKHLPSECYDKTDTYGNKDPTAASRAAQILD
 RALKTLAELPEEYRDFYARRMVLHIQDKAYSKNSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6470_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039693

ORF Size: 945 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_001039693.3](#)

RefSeq Size: 5384 bp

RefSeq ORF: 948 bp

Locus ID: 129450

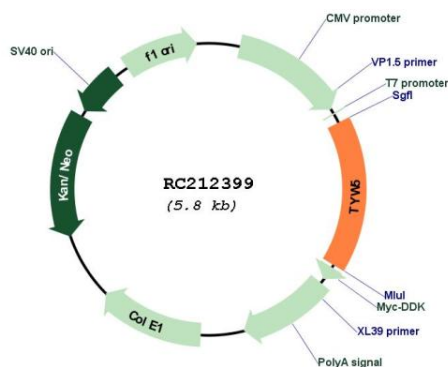
UniProt ID: [A2RUC4](#)

Cytogenetics: 2q33.1

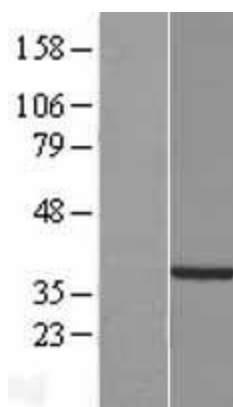
MW: 36.5 kDa

Gene Summary: tRNA hydroxylase that acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA. Catalyzes the hydroxylation of 7-(a-amino-a-carboxypropyl)wyosine (yW-72) into undermodified hydroxywybutosine (OHyW*). OHyW* being further transformed into hydroxywybutosine (OHyW) by LCMT2/TYW4. OHyW is a derivative of wybutosine found in higher eukaryotes.[UniProtKB/Swiss-Prot Function]

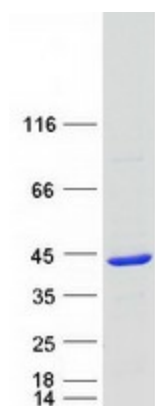
Product images:



Circular map for RC212399



Western blot validation of overexpression lysate (Cat# [LY421890]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212399 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TYW5 protein (Cat# [TP312399]). The protein was produced from HEK293T cells transfected with TYW5 cDNA clone (Cat# RC212399) using MegaTran 2.0 (Cat# [TT210002]).