

Product datasheet for **RG212399**

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:	TurboGFP
Symbol:	C2orf60
Synonyms:	C2orf60; hTYW5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212399 representing NM_001039693 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCCGGGCAGCACCTCCCGGTACCCCGGCTGGAGGGCGTTTCTCGGGAGCAGTTCATGCAGCACCTCT
ACCCACAGAGAAAACCTCTTGTTGGAAGGGATTGATTTGGGGCCATGTACAAGCAAATGGACAGTGGA
TTACCTAAGCCAAGTTGGAGGGAAGAAAGTAAGATTCATGTTGCTGCAGTGCACAGATGGACTTC
ATTAGTAAGAATTTGTATATAGAACTTTACCTTTTGACCAGTTGGTCCAGAGGGCAGCTGAAGAGAAAC
ATAAAGAATTCTTTGTTTCAGAGGATGAGAAATACTACTTACGGTCACTTGGAGAAGACCCTAGAAAGGA
TGTTGCAGATATCAGAAAGCAGTTTCCTTTGTTGAAAGGAGATATTAAGTTTCCAGAATTCCTCAAAGAG
GAACAGTTCTTTCCAGTGTTTTTCGAATTAGTTCAACAGGATTACAACATGGACTCATTATGATGTAA
TGGATAATTTGTTAATACAAGTGACAGGAAAAAGCGTGTGTACTCTTCAGTCTCGAGATGCCAGTA
TTTATATTTAAAGGTAATAATCAGAAGTACTGAATATAGATAACCCAGACTTGGCTAAATATCCACTT
TTTCCAAGGCTAGAAGATATGAATGTTCCCTGAAGCTGGTGATGTATTATTCATTCTGCTTTATGGT
TCCATAATGTAATTTCTGAAGAGTTTGGAGTGGGAGTGAATATCTTTGGAAGCACCTTCCATCTGAATG
CTATGATAAAACAGATACCTATGGAAACAAAGATCCTACAGCAGCATCAAGAGCTGCACAAATCTGGAC
AGAGCCTTGAAAACACTGGCCGAGTTACCAGAGGAATATAGGGACTTCTATGCACGACGAATGGTCTTAC
ACATTCAAGACAAAGCCTACAGCAAGAACTCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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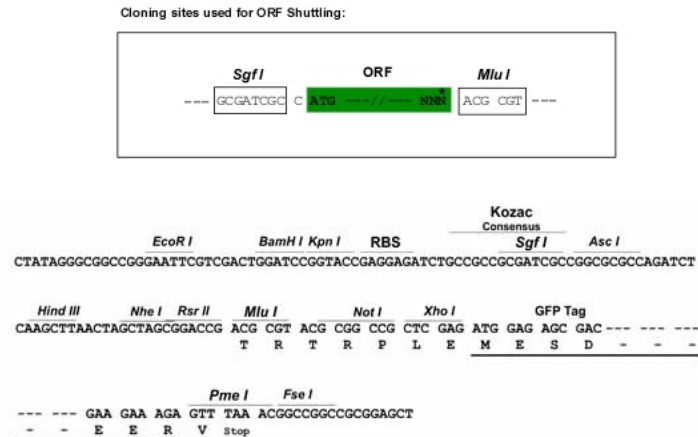
Protein Sequence: >RG212399 representing NM_001039693
 Red=Cloning site Green=Tags(s)

MAGQHLPVPRLEGVSREQFMQHLYPQRKPLVLEGIDLPCTSKWTVDYLSQVGGKKEVKIHVAVAQMDF
 ISKNFVYRTLFPDQLVQRAAEKHKKEFFVSEDEKYYLRSLGEDPRKDVADIRKQFLLKGDIKFPEFFKE
 EQFFSSVFRISSPGLQLWTHYDVMNLLIQVTGKKRVVLFSPRDAQYLKLGTKSEVLNIDNPD LAKYPL
 FSKARRYEC SLEAGDVLFI PALWFHNVISEEFVG VNI FWKHLPSECYDKTDTYGNKDPTAASRAAQILD
 RALKTLAELPEEYRDFYARRMVLHIQDKAYSKNSE

TRTRPLE – GFP Tag – V

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: 5148 bp

RefSeq ORF: 948 bp

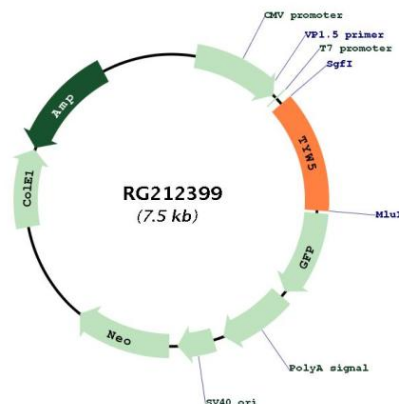
Locus ID: 129450

UniProt ID: A2RUC4

Cytogenetics: 2q33.1

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 RG212399