

Product datasheet for **SC310816**

C2orf60 (TYW5) (NM_001039693) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2orf60 (TYW5) (NM_001039693) Human Untagged Clone
Tag:	Tag Free
Symbol:	C2orf60
Synonyms:	C2orf60; hTYW5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310816 representing NM_001039693. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGCCGGGCAGCACCTCCCGGTACCCCGGCTGGAGGGCGTTTCTCGGGAGCAGTTCATGCAGCACCTC
 TACCCACAGAGAAAACCTCTTGTTGGAAGGGATTGATTTGGGGCCATGTACAAGCAAATGGACAGTG
 GATTACCTAAGCCAAGTTGGAGGGAAGAAAGAAGTAAAGATTCATGTTGCTGCAGTTGCACAGATGGAC
 TTCATTAGTAAGAACTTTGTATATAGAATTTACCTTTTGACCAGTTGGTCCAGAGGGCAGCTGAAGAG
 AAACATAAAGAATTCTTTGTTTCAGAGGATGAGAAATACTACTTACGGTCACTTGGAGAAGACCCTAGA
 AAGGATGTTGCAGATATCAGAAAGCAGTTTCCTTTGTTGAAAGGAGATATTAAGTTTCCAGAATTCCTC
 AAAGAGGAACAGTTCTTTTCCAGTGTTTTTCGAATTAGTTCACCGAGATTACAATATGGACTCATTAT
 GATGTAATGGATAATTTGTTAATACAAGTGACAGGAAAAAAGCGTGTTGTAATCTTCAGTCCTCGAGAT
 GCCCAGTATTTATATTTAAAGGTAATAATCAGAAAGTACTGAATATAGATAACCCAGACTTGGCTAAA
 TATCCACTTTTTTCCAAGGCTAGAAGATATGAATGTTCCCTTGAAGCTGGTGATGATTATTCATTCCT
 GCTTTATGGTTCATAATGTAATTTCTGAAGAGTTGGAGTGGGAGTGAATATCTTTTGAAGCACCTT
 CCATCTGAATGCTATGATAAACAGATACCTATGGAAACAAGATCCTACAGCAGCATCAAGAGCTGCA
 CAAATTCCTGGACAGAGCCTTGAAACACTGGCCGAGTTACCAGAGGAATATAGGGACTTCTATGCACGA
 CGAATGGTCTACACATTCAAGACAAAGCCTACAGCAAGAAGCTCTGAGTAA
 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001039693
Insert Size:	948 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
RefSeq:	<u>NM_001039693.2</u>
RefSeq Size:	5384 bp
RefSeq ORF:	948 bp
Locus ID:	129450
UniProt ID:	<u>A2RUC4</u>
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] Transcript Variant: This variant (1) represents the longest transcript and is the protein-coding transcript. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.