

Product datasheet for **MC226996**

Tyw5 (NM_001302962) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Tyw5 (NM_001302962) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Tyw5
 Synonyms: 1110034B05Rik
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC226996 representing NM_001302962
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGAGCAGCGTCTCCGGTACCCCGGCTGCGGGGCGTCTCCCGGGAGCAGTTCATGGAGCATCTTT
 ATCCACAGAGAAAGCCTCTTGTTGGAAGGACTCGACTTAGGATCTGTACAAGCAAATGGACAGTGGA
 TTACCTGAGTCAAGTTGGAGGAACGAAAGAAGTAAAATTCACGTTGCTGCAGTTCACAGATGGACTTC
 ATTAAACTTTACCTTTTAAACAAGTTGGTCCAGAGAGCAGCCGAAGAAACACATAAAGAATCTTCAATTC
 AGAGGATGAGAAATACTACTTACGGTCACTTGGAGAAGACCCAAGGAAGTAGGAAGAACTCCTTCACTGG
 GAAGGATGTTGCAGACATCAGACAGCAGTTCATCATTAGGAGGAGATATTACATTTCCAATGTTCTTC
 AGAGAGGAGCAGTTCCTTTCCAGTGTCTTTTCGAATTAGTTCACCTGGATTACAGCTCTGGACTCACTATG
 ATGTAATGGATAACTTTTTAATAACAAGTGACAGGAAAGAAGCAATTACACTGTTCAATCCTCGGGATGC
 ACAATATTTATATTTATCAGGTTCTAAATCAGAAGTGTGAATATCGACAGCCCAGACCTGGATAAATAC
 CCACTCTTTCTAAAGCAAGGAGGTATGAGTGTCCCTGGAAGCTGGAGATGTCTTTCATTCTGTGCTT
 TATGGTTCATAATGTAGTTTCTGAAGAGTTTGGAGTGGGGGTGAATATCTTCTGGAAGCACCTTCCATC
 GGAATGCTATGACACAACAGATACCTATGGCAACAAGATCCTGTAGCGGCATCCAGAGCTGTGCAGATC
 TTGGACAGAGCTTTGAAAACACTGGCTGAATTACCAGAGGAATACAGGGACTTCTATGCACGCCAAATGG
 TCTTACGTATTCAAGACAAGCCTACAGCAAGAACTTTGAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001302962
 Insert Size: 954 bp



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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_001302962.1</u> , <u>NP_001289891.1</u>
RefSeq Size:	1439 bp
RefSeq ORF:	954 bp
Locus ID:	68736
Cytogenetics:	1 C1.3
Gene Summary:	<p>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 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) encodes the longest isoform (4).</p>