

Product datasheet for **MC210787**

Tyw5 (NM_001114102) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tyw5 (NM_001114102) 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: >MC210787 representing NM_001114102
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTGAGCAGCGTCTCCGGTACCCCGGCTGCGGGGCGTCTCCGGGAGCAGTTCATGGAGCATCTTT
ATCCACAGAGAAAGCCTCTTGTTGGAAGGACTCGACTTAGGATCTGTACAAGCAAATGGACAGTGGA
TTACCTGAGTCAAGTTGGAGGAACGAAAGAAGTAAAATTCACGTTGCTGCAGTTCACAGATGGACTTC
ATTAACTTTACCTTTTAAACAAGTTGGTCCAGAGAGCAGCCGAAGAAACACATAAAGAATCTTTCATTTT
AGAGGATGAGAAATACTACTTACGGTCACTTGGAGAAGACCCAAGGAAGGATGTTGCAGACATCAGACAG
CAGTTCCCATCAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001114102

Insert Size: 366 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).

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).



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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: [NM_001114102.1](#), [NP_001107574.1](#)

RefSeq Size: 709 bp

RefSeq ORF: 366 bp

Locus ID: 68736

Cytogenetics: 1 C1.3

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 (By similarity).[UniProtKB/Swiss-Prot Function]