

## Product datasheet for **MC210788**

### Tyw5 (NM\_001037742) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tyw5 (NM\_001037742) 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:** >MC210788 representing NM\_001037742  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTGAGCAGCGTCTCCGGTACCCCGGCTGCGGGGCGTCTCCCGGGAGCAGTTCATGGAGCATCTTT  
ATCCACAGAGAAAGCCTCTTGTTGGAAGGACTCGACTTAGGATCTGTACAAGCAAATGGACAGTGGA  
TTACCTGAGTCAAGTTGGAGGAACGAAAGAAGTAAAATTCACGTTGCTGCAGTTCACAGATGGACTTC  
ATTAGTAAGAATTTGTCTATAGAATTTACCTTTTAAACAAGTTGGTCCAGAGAGCAGCCGAAGAAACAC  
ATAAAGAATTCCTCATTTAGAGGATGAGAAATACTACTTACGGTCACTTGGAGAAGACCAAGGAAGGA  
TGTTGCAGACATCAGACAGCAGTCCCATCATTAGGAGGAGATATTACATTTCCAATGTTCTTCAGAGAG  
GAGCAGTCTTTTCCAGTGTCTTTTTCGAATTAGTTCACCTGGATTACAGCTCTGGACTCACTATGATGTA  
TGGATAACTTTTTAATAACAAGTGACAGGAAAGAAGCGAATTACACTGTTCAATCCTCGGGATGCACAATA  
TTTATATTTATCAGGTTCTAAATCAGAAGTGCTGAATATCGACAGCCAGACCTGGATAAATACCCACTC  
TTTCTAAAGCAAGGAGGTATGAGTGCTCCCTGGAAGCTGGAGATGTCTCTTTCATTCTGCTTTATGGT  
TCCATAATGTAGTTTCTGAAGAGTTTGGAGTGGGGTGAATATCTTCTGGAAGCACCTTCCATCGGAATG  
CTATGACACAACAGATACCTATGGCAACAAAGATCCTGTAGCGGATCCAGAGCTGTGCAGATCTTGAC  
AGAGCTTTGAAAACACTGGCTGAATTACAGAGGAATACAGGACTTCTATGCACGCCAAATGGTCTTAC  
GTATTCAGACAAAGCCTACAGCAAGAATTTAGT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001037742  
**Insert Size:** 948 bp



[View online »](#)

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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).   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001037742.2</a> , <a href="#">NP_001032831.2</a>  |
| <b>RefSeq Size:</b>           | 1448 bp  |
| <b>RefSeq ORF:</b>            | 948 bp   |
| <b>Locus ID:</b>              | 68736  |
| <b>UniProt ID:</b>            | <a href="#">A2RSX7</a>   |
| <b>Cytogenetics:</b>          | 1 C1.3   |
| <b>Gene Summary:</b>          | <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 (1) uses an alternate in-frame splice site and lacks an alternate in-frame exon in the 5' coding region, compared to variant 4. The resulting protein (isoform 1) is shorter than isoform 4.</p> |