

Product datasheet for **MC205198**

Tyw1 (NM_001015876) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tyw1 (NM_001015876) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tyw1
Synonyms:	AW125391; Rsafd1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC068126
 TTCGCTGTCCCTCTCTCTTTGCGTTTGCCGGTTGACTTGCCTAGCTCGGGCCCCGCGGAGGATGGGTCTT
 CTGGATGTGTGGGACTTGTGCGCTTTGCTGTCACTGTGGATGAACAGGTTCTACATATATATGGGCTGTG
 CCCTGGGCCTTACCCTTTGCATCTGTGTCCAGATCATCAAGAAGCAGGTCACTCGTTCCCAGGAGAAACG
 TGTCACAGGAGCTCCTGATAGCTCCCTCTCCCCTCAGAAGAAGCAGACACACGTTTCTGGAGTGAAGATT
 TTTTACGGATCTCAGACGGGCACTGCCAAGGGATTGTCAGTGGTCTTGCCAAAGCTGTACCTCTCTGG
 ACCTGCCGTGTGGCATTATTAATCTGAAGGAATATGATCCAGATGACAGTCTGATAGGAGAGATCACTAG
 TAAAACCGTCTGTGCCTTCTGGTCTGCTACGTACACGGACGGCTGCCCTACAGAGAGTGCAGAGTGGTTC
 TGCAAGTGGTTAGAGGAATCAGCTAATGATTTCCGCTTTGGCAAACTTACCTGAAGGGACTTCGCTATG
 CAGTGTGTTGGCTGGGAGACTCTGCCTACCGAGGCCACTTCAACAAGGTGAGCACGAACGTTGACAAATG
 GCTCTGGATGCTCGGTGCCAGCGGGTGTGACCCGAGGGGAAGGCGACTGCAATGCAGTTCAGAGCAAA
 CATGGCAGCATCGAGGCCGACTTACAGCCTGGAAGACCAAGTTCATCTCCCGGTGTCAGGCCCTGCAGA
 GAGGGGAGAAAAAGGCTTGTGGCGGGAAGTGAAGAGAGGGAAGTGTGAGTGGCCAGCATGGCCAGG
 AGAGGCGCGGCTCACCCGAAGGCGAATTGCATCTGGGGATGCTGAGGAGGAAGAGCCCTGTGAGAGC
 AGCAGCGAGGACGAGCTCGGGACCCAGGATTATCAGAGCCTGACTTCTGTGGTGGATGTTGAGGACCTGG
 GCAACATCATGAACCCCTGAAGAGGGAAAAAGAGAGAAAAGTCTCATCAGGACGGGAAAGCTGCCATGCA
 GAGGAACCCAGAGAAGACTGAGGACGGCGAAGGAAGAGCTATGATAACACCTGCTCTGCGGGAAGCCCTG
 ACTAAACAAGGGTACCAGCTGATTGGCAGCCACTCTGGTGTGAAGCTTTGCAGGTGGACAAAGTCGATGC
 TGCGGGGGAGAGGAGGTTGCTACAAACACACATTTCTACGGCATTGAGAGCCACCGCTGCATGGAAGCCAC
 CCCAAGCTTGGCGTGTGCGAATAAATGTGTCTTCTGCTGGCGGCACCATACCAATCTGTGGGCACTGAG
 TGGCGGTGGAAGATGGACCAGCCAGAATTGATCTTGAAGGAAGCCATTGAGAACCATCAGAACATGATTA
 AACAGTTCAAAGGCGTGCCAGGCCTCAAGGCGGAGCGCTTTGAAGAGGGGATGGAGGTCAAGCACTGTGC
 GCTGTCACTCGTGGTGAGCCGATCATGTACCCAGAAATCAACAGGCTTTTGAAGCTGCTCCACCAGCAC
 GGCATCTCCAGCTTCTTGTACCAATGCGCAGTTCCCTGAGGAGATCAGGAAGCTCACACCAGTTACTC
 AGCTCTACGTGAGCGTGGACGCCAGCAGCAGAGACGGCCTGAAGAAGATCGACCGCCCGCTTTCAAGGA
 TTTCTGGCAGCGCTTCTAGACAGTTTGAAGCCTTATCTGAAAAGCAACAACGAACGGTCTACAGACTG
 ACGCTTGTGAAGTGTGGAACGTGGATGAACTCCAGGCCTACGCTGAGCTGGTGTCTTGGGGAACCCCG
 ACTTCATCGAGGTCAAGGGTGTGACCTACTGTGGTGAAGTGCAGCCAGCAGCCTCACCATTGGCCAAATGT
 CCCTTGGCAGGAGGAAGTGGTTCGGTTTGTCCGTGAGCTGGTCTGCTTCCCGACTATGAAGTTGCG
 TGTGAACACGAGCACTCAAAGTGCCTCCTGATCGGACACAAGAAGTTAAGATCGATGGAGAATGGTGA
 CATGGATCAATTACAGCCGCTTCAAGAGCTCGTTCTGCAGTACGAAGAGAGTGGAGGCTCAAGACGTT
 CAGCTCGAGGGATTACATGGCCAGAACCCACAGTGGGCACTGTTTGGTGGCAGGGAAGAGGCTTTGAT
 CCCAAGGACACGAGATACCAGAGGAAGAACAACGAAGGACATTTCGGATGTTGAGCTTATCTGAGTT
 AAGGATCTCCAAAGACAAAAGCTGCGTGGCCCCGGCAGGTCCTTGGCTGCCATCACTGTCCACGGGGCAA
 CGGTTCACAGCCGTACTTCATGGTCTGACACCAGCAGGCGCATGCTGCCACACAGCATCCACAGGTC
 GACGCTGCTTACCAGAACTCATGCCCTTAAAGAGTCAGTTTCTGAGACAGTGAAGGTGACAGTCACCTG
 AATTTTACAGTTTGGGTTTTATTTAGTAATTTTCTAAGTGCTATCCCTGAGTGTACACAGGGAATA
 AACACTGCCGCTCCGCTCTGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_001015876

Insert Size: 2166 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).

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: [BC068126](#), [AAH68126](#)

RefSeq Size: 2564 bp

RefSeq ORF: 2166 bp

Locus ID: 100929

UniProt ID: [Q8BJM7](#)

Cytogenetics: 5 G1.3

Gene Summary: Probable 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 condensation of N-methylguanine with 2 carbon atoms from pyruvate to form the tricyclic 4-demethylwyosine, an intermediate in wybutosine biosynthesis (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1).