

Product datasheet for **MR228323**

Tyw5 (NM_001302964) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tyw5 (NM_001302964) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tyw5
Synonyms: 1110034B05Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228323 representing NM_001302964
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGTTCTTCAGAGAGGAGCAGTTCTTTCCAGTGTTCGCAATTAGTTCACCTGGATTACAGCTCTGGA
CTCACTATGATGTAATGGATAACTTTTTAATAACAAGTGACAGGAAAGAAGCGAATTACACTGTTCAATCC
TCGGGATGCACAATTTTATATTTATCAGGTTCTAAATCAGAAGTGCTGAATATCGACAGCCCAGACCTG
GATAAATACCACTCTTTCCTAAAGCAAGGAGGTATGAGTGCTCCCTGGAAGCTGGAGATGTCCTCTTCA
TTCCTGCTTTATGGTTCATAATGTAGTTTCTGAAGAGTTTGGAGTGGGGTGAATATCTTCTGGAAGCA
CCTTCCATCGGAATGCTATGACACAACAGATACCTATGGCAACAAAGATCCTGTAGCGGCATCCAGAGCT
GTGCAGATCTTGACAGAGCTTTGAAAACACTGGCTGAATTACCAGAGGAATACAGGGACTTCTATGCAC
GCCAAATGGTCTTACGTATTCAAGACAAAGCCTACAGCAAGAACTTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228323 representing NM_001302964
Red=Cloning site Green=Tags(s)

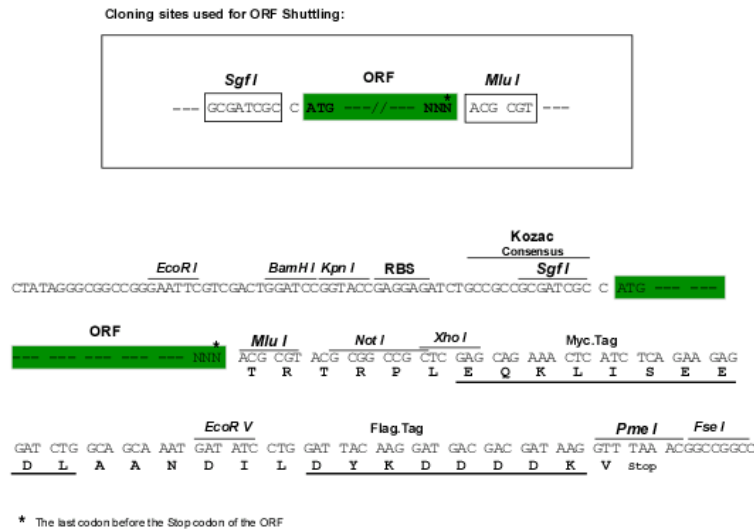
MFFREEQFFSSVFRISSPGLQLWTHYDVMDFLIQVTGKKRITLFNPRDAQYL YLSGSKSEVLNIDSPDL
 DKYPLFPKARRYECSLEAGDVLFI PALWFHNVVSEEFVG VNIWFKHL PSECYDTTDTYGNKDPVAASRA
 VQILDRALKTLAELPEEYRDFYARQMVLRIQDKAYSKNFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001302964

ORF Size: 540 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001302964.1](#), [NP_001289893.1](#)

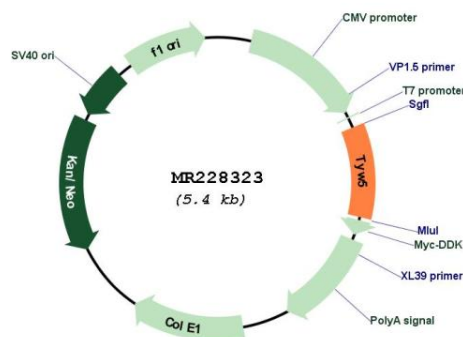
RefSeq Size: 1414 bp

RefSeq ORF: 543 bp

Locus ID: 68736

Cytogenetics:	1 C1.3
MW:	21.5 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228323