

Product datasheet for **RC227263**

TYW1B (NM_001145441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TYW1B (NM_001145441) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TYW1B
Synonyms:	LINC00069; NCRNA00069; RSAFD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227263 representing NM_001145441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCTTCTGCGGATACATGGGACCTCTCCTCACCTTTAATATCATTATGGATAAACAGGTTTTACA
 TTTATCTGGGCTTTGCTGTTAGCATTAGCCTTTGGATTTGTGTCAGATTGTCATCGAGATGCAGGGATT
 TGCAACAGTTCTTGTGAAGCAGTTACGTCCCTGGATCTGCCTGTGGCCATTATTAATCTAAAAGAAATAT
 GATCCAGATGATCATCTGATAGAAGAGGAGGAAGAACCCTTCGAGAGCTCCAGTGAAGAAGATTGGTG
 GTGAGGACCATCAGAGCCTAAATTCATTGTTGATGTTGAAGATTGGGCAAAATATGGATCACGTGAA
 GAAAGAAAAGAGAGAAAAGGAACAGCAGGAAGAGAAGTCTGGTTTGTTCAGGAACATGGGGAGGAATGAA
 GATGGTGAAGAAGAGCTATGATAACTCCTGCTCTCCGAGAAGCCCTTACTAAACAAGTCGATGCTCCGA
 GGGAGAGGAGCTTGTTACAAACACACATTCTATGGAATGAGAGCCATCGCTGCATGGAAACCACCCCGAG
 CTTGGCGTGTGCTAATAAATGTGCTTCTGTTGGTGGCACCACAACAACCCTGTGGGCATGAATGGTGG
 TGGAAAGATGGACCAGCCTGAAATGATCTTGAAGGAAGCCATTGAAAACCATCAGAACATGATTAAGCAGT
 TTAAGGAGTACCGGGCGTCAAAGCAGAACGCTTTGAAGAAGGAATGACGGTAAAGCACTGTGCATTGTC
 CCTCGTGGGAGAACCAATAATGTACCCAGAGATCAACAGGTTTTTGAAGCTACTCCACAGTGTAATATC
 TCCAGCTTCTGGTCACAAATGCACAATTTCTGCGGAAATCAGGAACCTCGAGCCAGTTACTCAGCTGT
 ATGTCAGTGTGGATGCCAGTACCAAGACAGCCTGAAGAAAAATCGACCGCCCACTCTCAAGGATTTCTG
 GCAGCAATTCCTTGACAGTTTAAAGCCTTGGCAGTCAAGCAACAACGAAGTGTCTACAGACTGACGCTC
 GTGAAAGCATGGAACGTGGACGAGCTCCAGGCCTACGCGCAGCTCGTGTCCCTGGGGAATCCTGACTTCA
 TCGAAGTGAAGGGCGTTACCTACTGCAGAGAAAGTTCAAGCAAGCAGTCTTACCATGGCCCATGTGCCCTG
 GCATGAGGAAGTGGTACAGTTTGTCCGCGAGCTGGTGGATCTGATCCCCGAATATGAAATTGCATGTGAA
 CACGAACACTCTAATTGCCTCCTGATAGCACACAGAAAGACAGTTTTAGGAGGGACACCAGGCCATGGAG
 TCACAGAAATCCAGTGGGAAGAGTGGATCAAGAAAAGACTAATCAGCCAGGCACGGTGGCTCATGTCTGT
 TATCCAGCACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227263 representing NM_001145441
 Red=Cloning site Green=Tags(s)

MDPSADTWDLSSPLISLWINRFYIYLGFAVSISLWICVQIVIEMQGFATVLAEAVTSLDLPVAIINLKEY
 DPDDHLIEEEEEPFESSEEEFGGEDHQSLNSIVDEDLKGIMDHVKKEKREKEQQEEKSGLFRNMGRNE
 DGERRAMITPALREALTKQVDAPRERSLLQTHILWNESHRCMETTPSLACANKCVFCWWHHNNPVGTEWW
 WKMDQPEMILKEAIENHQNMKQKFGVPGVKAERFEEGMTVKHCALSLVGEPIMYPEINRFLKLLHQCKI
 SSFLVTNAQFP AEIRNLEPVTQLYVSVDASTKDSLKKIDRPLFKDFWQQFLDSLKALAVKQQRVTYRLTL
 VKAWNVDLQAYQLVSLGNPDFIEVKGVTYCRESSASSLTMAHVPWHEEVVQFVRELVDLIPEYEIACE
 HEHSNCLLIAHRKTVLGGTPGHGVTEIQWEEWIKRLISQARWLSVIPAH

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8032_b11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM 001145441

ORF Size: 1413 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 001145441.1, NP 001138913.1

RefSeq ORF: 1416 bp

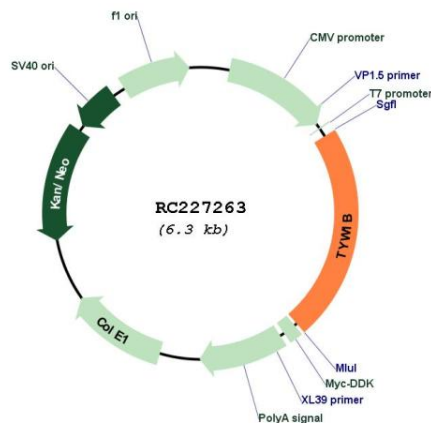
Locus ID: 441250

Cytogenetics: 7q11.22-q11.23

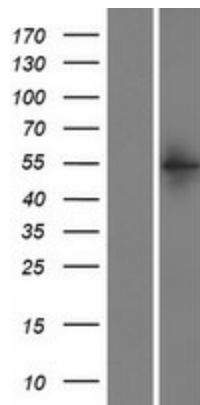
MW: 54.1 kDa

Gene Summary: Wybutosine is a hypermodified guanosine found in phenylalanine tRNA. Wybutosine functions to stabilize codon-anticodon interactions during ribosome decoding and therefore supports the maintenance of the reading frame. In yeast, the homolog of this gene is essential for the synthesis of wybutosine. The human genome contains two closely related genes that putatively function in wybutosine synthesis. The open reading frame of this locus is disrupted in some individuals. Thus, this locus appears to be an evolving pseudogene, but may still be functional in some members of the population. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC227263



Western blot validation of overexpression lysate (Cat# [LY428888]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227263 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).