

Product datasheet for **SC326578**

TYW1B (NM_001145441) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TYW1B (NM_001145441) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC326578 representing NM_001145441.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGATCCTTCTGCGGATACATGGGACCTCTCCTCACCTTTAATATCATTATGGATAAACAGGTTTTAC
ATTTATCTGGGCTTTGCTGTTAGCATTAGCCTTTGGATTGTGTCCAGATTGTCATCGAGATGCAGGGA
TTTGCAACAGTTCTTGCTGAAGCAGTTACGTCCCTGGATCGCCTGTGGCCATTATTAATCTAAAGAA
TATGATCCAGATGATCATCTGATAGAAGAGGAGGAAGAACCCTTCGAGAGCTCCAGTGAAGAAGATTT
GGTGGTGAAGGACCATCAGAGCCTAAATTCATTGTTGATGTTGAAGATTTGGGCAAAATTATGGATCAC
GTGAAGAAAGAAAAGAGAGAAAAGGAACAGCAGGAAGAGAAGTCTGGTTTGTTCAGGAACATGGGGAGG
AATGAAGATGGTGAAGAAGAGCTATGATAACTCTGCTCTCCGAGAAGCCCTTACTAAACAAGTCGAT
GCTCCGAGGGAGAGGAGCTTGTACAAACACACATTCTATGGAATGAGAGCCATCGCTGCATGGAACC
ACCCGAGCTTGGCGTGTGCTAATAAATGTGTCTTCTGTTGGTGGCACCACAACAACCCTGTGGGCACT
GAATGGTGGTGAAGATGGACGACCTGAAATGATCTTGAAGGAAGCCATTGAAAACCATCAGAACATG
ATTAAGCAGTTTAAAGGAGTACCGGGCGTCAAAGCAGAACGCTTTGAAGAAGGAATGACGGTAAAGCAC
TGTGCATTGTCCCTCGTGGGAGAACCAATAATGTACCCAGAGATCAACAGGTTTTTGAAGCTACTCCAC
CAGTGTAATAATCTCCAGCTTCTGGTGACAAATGCACAATTTCTGCGGAAATCAGGAACCTCGAGCCA
GTTACTCAGCTGTATGTCAAGTGTGGATGCCAGTACCAAAGACAGCCTGAAGAAAAATCGACCGCCCACTC
TTCAAGGATTTCTGGCAGCAATTCCTTGACAGTTTAAAGCCTTGGCAGTCAAGCAACAACGAAGTGC
TACAGACTGACGCTCGTGAAGCATGGAACGTGGACGAGCTCCAGGCCTACGCGCAGCTCGTGTCCCTG
GGGAATCCTGACTTCATCGAAGTGAAGGGCGTTACCTACTGCAGAGAAAGTTCAGCAAGCAGTCTTACC
ATGGCCCATGTGCCCTGGCATGAGGAAGTGGTACAGTTTGTCCGCGAGCTGGTGGATCTGATCCCGGAA
TATGAAATTGCATGTGAACACGAACTCTAATTGCCTCCTGATAGCACACAGAAAGACAGTTTTAGGA
GGGACACCAGGCCATGGAGTACAGAAATCCAGTGGGAAGAGTGGATCAAGAAAAGACTAATCAGCCAG
GCACGGTGGCTCATGTCTGTTATCCCAGCACATTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001145441

Insert Size: 1416 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
RefSeq:	<u>NM_001145441.1</u>
RefSeq Size:	1603 bp
RefSeq ORF:	1416 bp
Locus ID:	441250
Cytogenetics:	7q11.22-q11.23
MW:	54.3 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] Transcript Variant: This variant (2) lacks two alternate in-frame exons in the 5' coding region and uses an alternate 3' coding exon, compared to variant 1. The resulting isoform (2) lacks an internal segment near the N-terminus and has a distinct C-terminus, compared to isoform 1.