

Product datasheet for **RG227249**

TYW1B (NM_001145440) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TYW1B (NM_001145440) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TYW1B
Synonyms:	LINC00069; NCRNA00069; RSAFD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG227249 representing NM_001145440
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGATCCTTCTGCGGATACATGGGACCTCTCCTCACCTTTAATATCATTATGGATAAACAGGTTTTACA
 TTTATCTGGGCTTTGCTGTTAGCATTAGCCTTTGGATTTGTGTCCAGATTGTCATCGAGATGCAGGGATT
 TGCAACAGTTCTTGCTGAAGCAGTTACGTCCCTGGATCTGCCTGTGGCCATTATTAATCTAAAAGAATAT
 GATCCAGATGATCATCTGATAGAAGAGGTGACTAGTAAAAATGTCTGTGTCTTCTGTTGCGACATACA
 CTGACGGCCTACCAACCGAAAGTGCAGAGTGGTTCTGCAATGGTTAGAGGAAGCATCCATTGATTTTCG
 ATTTGGCAAACTTACCTGAAGGGTATGAGAGATGCGGTATTTGGCCTGGGAAATCTGCCTATGCTAGC
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 AGTGAAGGGCGTTACCTACTGCAGAGAAAGTTCAGCAAGCAGTCTTACCATGGCCCATGTGCCCTGGCAT
 GAGGAAGTGGTACAGTTTGTCCGCGAGCTGGTGGATCTGATCCCCGAATATGAAATTGCATGTGAACACG
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 TTATAACCGCTTCCAGGAGCTCATCCAGGAATATGAAGATAGTGGTGGATCAAAAACGTTTCAGCGCAAGG
 GATTATATGGCCAGAAGCTCCTCACTGGGCATTATTTGGTGCCAATGAAAGAAGCTTTGATCCCAAGGACA
 CAAGACATCAGAGAAAGAACAATCAAAGGCTATTTCTGGATGT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG227249 representing NM_001145440
 Red=Cloning site Green=Tags(s)

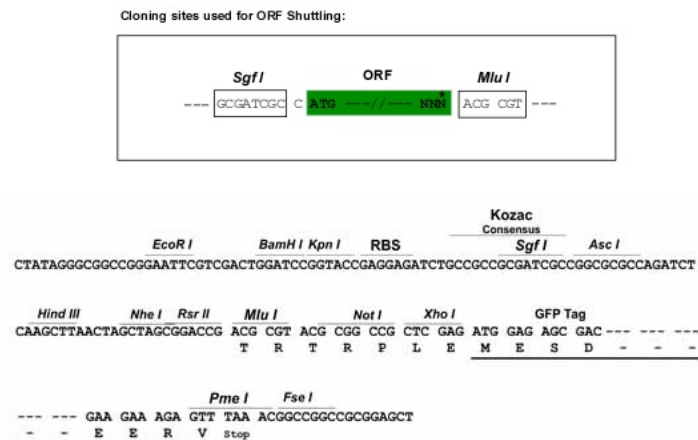
MDPSADTWDLSSPLISLWINRFYIYLGFAVSISLWICVQIVIEMQGFATVLAEAVTSLDLPVAIINLKEY
 DPDDLHIEEVTSKNVCVFLVATYTDGLPTESAWEFCWLEEASIDFRFGKTYLKGMRAVFLGNSAYAS
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 KKKGKCESHQHGEEREESQEQDELHHRDTKEEPPFESSSEEEFGGEDHQLNSIVDVEDLGKIMDHVKK
 EKREKEQQEEKSGLFRNMGRNEDGERRAMITPALREALTKQVDAPRERSLLQTHILWNESHRCMETTPSL
 ACANKCVFCWWHHNNPVGTEWLWKMDQPEMILKEAIENHQNMIKQFKGVPGVKAERFEEGMTVKHCALS
 VGEPIMYPEINRFLKLLHQCKISSFLVNAQFPAEIRNLEPVTQLYVSDASTKDSLKKIDRPLFKDFWQ
 QFLDSLKALAVKQORTVYRLTLVKAWNDELQAYQLVSLGNPDFIEVKGVTYCRESSASSLTMAHPWH
 EEVVQFVRELVDLIPEYEIACEHEHSNCLLIAHRKFKIGGEWWTWIDYNRFQELIQEYEDSGGSKTFSK
 DYMARTPHWALFGANERSFDPKDRHQKKNKSKAISGC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001145440

ORF Size: 2004 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.

RefSeq: [NM_001145440.1](#), [NP_001138912.1](#)

RefSeq Size: 3171 bp

RefSeq ORF: 2007 bp

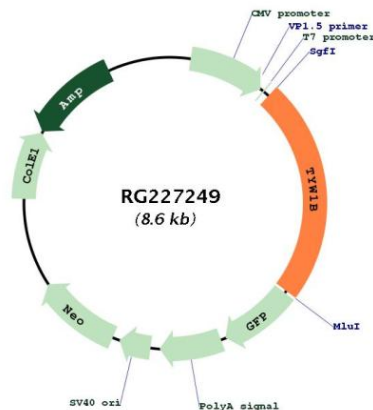
Locus ID: 441250

UniProt ID: [Q6NUM6](#)

Cytogenetics: 7q11.22-q11.23

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 RG227249