

## Product datasheet for **SC326793**

### TYW3 (NM\_001162916) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TYW3 (NM_001162916) Human Untagged Clone
Tag:	Tag Free
Symbol:	TYW3
Synonyms:	C1orf171
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326793 representing NM_001162916. Blue=Insert sequence Red=Cloning site Green=Tag(s)

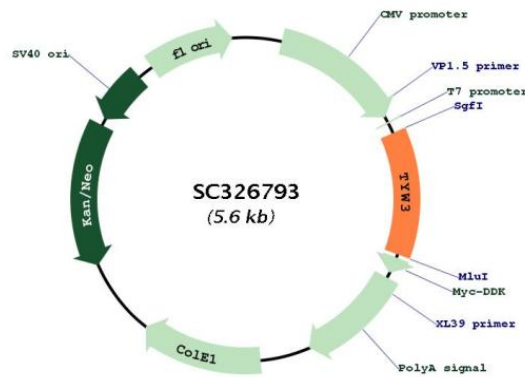
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCGCAGCGCGGAGTTCAGGAAATGGAAGGCGCAATGTTTGAGCAAAGCGGACCTCAGCCGGAAG
GGCAGTGTGACGAGGATGTGGTAGAGCTTGTGCAGTTTCTGAACATGCGAGATCAGTTTTTACCACC
AGCTCCTGCGCTGGCCGCATCCTACTCCTTGACCGGGTATAAATGGTTTTGAGTTTCAGAAACAAAAC
TGTTGCTGGCTACTGGTTACACACAACTTTGTGTAAGATGATGTGCATTCCATGGCAATAGATTCT
GGTTTCAGGAACCTGGCATAACGGTGGGAAAGAGAGGAAAACTATGTTGGCTGTCCGGAGTACACAT
GGCTTAGAAGTTCATTAAAGCCATAAGGGAAAAGTATGTTGGCTGTCCGGAGTACACAT
AATGTGGCAAATCAAAAATGGAGGAAAACAAGAAAAGAAATTGAGAGTTTTACAACGCCTACAGCAT
GCTTTGAAAGGGAAACGATGACTAATTACATCCCAAGATCAAAGAGAAAAATAACTCATCATATATT
CATAAGAAAAAAGAAACCCAGAAAAACACGTGCCAGTGATTAATAAGAAAGTATGAAGAAGT
GAAAATGATGATGATGATCTAGGAATCAATGTTACCATCTTCCCTGAAGATTACTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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## Plasmid Map:



**ACCN:** NM\_001162916

**Insert Size:** 681 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:** [NM\\_001162916.1](#)

RefSeq Size: 3353 bp

RefSeq ORF: 681 bp

Locus ID: 127253

UniProt ID: [Q6IPR3](#)

Cytogenetics: 1p31.1

MW: 26.1 kDa

**Gene Summary:**

Wybutosine (yW) is a hypermodified guanosine at the 3-prime position adjacent to the anticodon of phenylalanine tRNA that stabilizes codon-anticodon interactions during decoding on the ribosome. TYW3 is the human homolog of a yeast gene essential for yW synthesis (Noma and Suzuki, 2006).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (2) lacks an in-frame exon in the CDS, as compared to variant 1. The resulting isoform (2) lacks an internal segment, as compared to isoform 1. Sequence

Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.