

Product datasheet for **MC226336**

Trub2 (NM_001290495) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trub2 (NM_001290495) Mouse Untagged Clone
Tag: Tag Free
Symbol: Trub2
Synonyms: G430055L02Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226336 representing NM_001290495
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCAGGCTTCTGGTGTGCTTGGATTACACAGTGCCTGGCCTCCTGGGCAAAGCTACAGACAACCTTCT
GTGAAGATGGACGGCTGATAGAGAAGACAACGTATGACCACGTGACCAGAGAGCGGCTGGACCGGATCCT
GGCTGTGATCCAAGGCTCCACCAAAAAGCTCTGGTGTGTAACCAACCTGGACCTGAAATCCCAGGAG
GCCTATGAGATGGCTGTGCAAGGTGTGATCAGGCCATGAACAAGTCCCCATGCTCATCTCTGGCATCC
GCTGCCTGCACCTTGCACCTCCCGAGTTTCTTTGGAGGTGCAGTGTATGCACGAGACGCAGCAGCAGCT
GAGGAAGCTGGTGCATGAAATCGGCCTGGAGCTGAAGACCAGCGCTGTCTGCACGCAAGTGCGGCGGACT
CGGGATGGCTTCTCGGCCTGGATGATGCCCTCCTGAGAACCCAGTGGGACCTACACAACATCCAGGATG
CTATCCAGGCGGCAGCTCCCGGGTGGCAGCGAACTGCAAAAAGAACTTGAGCCTAAAGCTGGGCCACCA
TCAGCTCCCGCAGCACTGGCAACCTTGGGTCTCAAGGACCAAGCTCCACTTTGGAGTTGGAAGCTGT
TCAGGGCAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290495
Insert Size: 642 bp



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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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_001290495.1</u> , <u>NP_001277424.1</u>
RefSeq Size:	3941 bp
RefSeq ORF:	642 bp
Locus ID:	227682
Cytogenetics:	2 B
Gene Summary:	<p>Minor enzyme contributing to the isomerization of uridine to pseudouridine (pseudouridylation) of specific mitochondrial mRNAs (mt-mRNAs) such as COXI and COXIII mt-mRNAs. As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPUSD3, RPUSD4, TRUB2, FASTKD2 and 16S mitochondrial ribosomal RNA (16S mt-rRNA), controls 16S mt-rRNA abundance and is required for intra-mitochondrial translation. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate internal exon, resulting in translation initiation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a. 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.</p>