

Product datasheet for **RN202401**

Trub2 (NM_001014257) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trub2 (NM_001014257) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Trub2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN202401 representing NM_001014257 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGTTCTTCTGGCCTAGCTCGACTGCAGGGTCTCTTCGCTGTCTATAAACCTCCGGGGCTGAAATGGC
TGCATGTGCGTGAGACCGTGAGTTGCAACTGCTTAAAGGTCTCAATGCACAGCAGCCTTCTGCTCCAGA
ACAGCATGTTTCGCTTCTTACTAGGCCCTGTGGAAGGCAGTGAAGAGAAGAAGTTGACTCTCACGGCCACC
AGTGTGCCCTCCCTCACCACCCACAGACTTGTTCGTGGTCCAGCATTAGAAAACCTGAAGATCGGTGTGG
GGCATCGTTTGGATGTCCAGGCTTCTGGTGTGCTTGTTCGCTGTGGGACACGGACGCAGTCTCCTCAC
TGACATGTATGATGCTCACCTCACCAAGGATTACACGGTTCGTGGCCTCCTGGGCAAAGCTACAGACAAC
TTCTGTGAAGATGGGCAGTTGATAGAGAAGACAACATATGACCATGTGACTAGAGAGCGGCTGGACCGGA
TCCTGGCTATGATCCAAGGCTCCACCAAAAAGCCCTGGTAATGTACTCCAACCTGGACCTGAAGTCCCA
GGAGGCCACGAGAGGGCTGTGCAAGGCGTGATCCGGCCCATGAACAAGTCCCAATGCTCATCGCTGGC
ATCCGCTGCCTGCACTTTGCACCTCCTGAGTTTCTTTGGAGGTGCAGTGTATGCACGAGACACAGCAGC
AGCTGAGGAGGCTGGTGCATGAAATCGGCCTGGAGCTGAAGACCACCGCTGTCTGCATGCAAGTGGCGG
CACTCGGGATGGCTTCTTCGGGCTGGACGATGCCCTCCTGAGAACCAGTGGGACCTGCACAGCATTGAG
GATGCTATTGAGACGGCAGCCCCCGGGTAGCCAGAGAACTGAGAAAGAACTTGAGCCTAATGTCTGGGCC
ACCAACAACAGCTCCCCAGTGCCGGGCAGCCTTGGGCTCAAGGGTCCAAGCTCCACTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001014257
Insert Size:	972 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).
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_001014257.2, NP_001014279.1</u>
RefSeq Size:	1320 bp
RefSeq ORF:	972 bp
Locus ID:	366012
UniProt ID:	<u>Q5XFW2</u>
Cytogenetics:	3p12
Gene Summary:	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]