

Product datasheet for **RN202703**

Rpusd4 (NM_001025284) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rpusd4 (NM_001025284) Rat Untagged Clone
Tag: Tag Free
Symbol: Rpusd4
Synonyms: RGD1311268
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN202703 representing NM_001025284
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGCGCCCTTGTGGGTTCCCTGGTCTCCAGGTCCTGAGTATGAGTTCGGTACCGGAAATTGT
TCACTCCCAGCTCCAGGTCGTTTTGTTCCAGAGCTACTTCTCCAGGCCCTGAATGCTCAGAGACTGGC
GGAGAAGTCCGAGCTCAGAAACAAGAGCAAAAGACGAAGGAAATGCGGGTGCCCAACCCCGTTTCAG
CGGCGGGTGCAGGAGCTAGTGAGATTCACACAGCAGCTACAGCGTGTTCACCCCAATGTGCTTGCTAAGG
AACTGAGCCGAAGGATTCTCCACCAGGACAAAGACCTTGTGGTCATTAATAAACCCATATGGTCTCCCTGT
CCATGGTGGCCCTGGAGTCCAGCTCTGCATCAGTGATGTTCTGCCATCTTGGCAAAGATGCTTCATGGC
CACAAGGCAGAACCTTTGCATCTGTGCCACCGTCTGGACAAAGAGACCACAGGTGTAATGGTTTTGGCTT
GGGAGAAGGACATGGCACATCAAGTCCAGGAGCTGTTTAGAACCCGCCAGGTGGAAAAGAAGTACTGGGC
CATCACTGTGCGTGTTCCTTGCCTCGGCAGGAGTTGTGGATATCCCCATCATGGAGAAGGAAGTGGCT
GGGCAGCAGCAACACCACAAGATGACGCTACGTCCAAGTTACCGCATGGACAATGGGAAAATGGTAAAGG
TACGGGCCAGCCGGGATGCACAGTCCGGTAACCTCAGTACCAGGTGCTGAGCAGCACCCCGTCTCCCGC
CCTTGTGGAGCTGCAGCCTGTCACTGGAATAAAACATCAGCTCCGAGTTACCTGGCCTTTGGGTTGGAT
TGCCCAATCCTCGGTGATCACAATACTCAGAGTGAATAGGTTGGCCCTCAGAAACTTCTGCTGGCA
CACTGAAGAAGCTGGGGCTACAACAGTCAAAGGCCGCTACATCCCTCTTCATCTGCATGCCAGGCAGCT
CATCCTGCCTGCTCTGGGCTCCAGGACAGAGGAACTCCTCCTGGCCTGCAAGCTTCTCACTTCTTTGCA
CGTTCCCTGCGTCTGGGTTTAGATATGCCAATGAGGATCAAAGCAGAAGCCATGAGGCCAGGCATG
TGAAGCACGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001025284
Insert Size:	1134 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).
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_001025284.1</u> , <u>NP_001020455.1</u>
RefSeq Size:	1830 bp
RefSeq ORF:	1134 bp
Locus ID:	315550
UniProt ID:	<u>Q4QQT0</u>
Cytogenetics:	8q21
Gene Summary:	Catalyzes uridine to pseudouridine isomerization (pseudouridylation) of different mitochondrial RNA substrates. Acts on position 1397 in 16S mitochondrial ribosomal RNA (16S mt-rRNA). This modification is required for the assembly of 16S mt-rRNA into a functional mitochondrial ribosome. Acts on position 39 in mitochondrial tRNA(Phe). As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPUSD3, RPUSD4, TRUB2, FASTKD2 and 16S mt-rRNA, controls 16S mt-rRNA abundance and is required for intra-mitochondrial translation.[UniProtKB/Swiss-Prot Function]