

Product datasheet for **SC103625**

RPUSD4 (NM_032795) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPUSD4 (NM_032795) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPUSD4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032795, the custom clone sequence may differ by one or more nucleotides

ATGGCGGCGCCAGGTGGAGCGCGTCGGGCCCTGGATCCGGGGAACGGCCAAGTTGCGGGAGTCTCT
TCACTCTCGTCTCAAAGCCATTTGTGCCGCTGCCGCTGCCTCTACGGCCATAAATGCCAGAGATTAGC
GGAGAAGTCCGAGCCAGAAACGGGAACAAGACACAAAGAAGGAGCCGGTGTCCACAAACGCTGTTTCAAG
CGGAGAGTGCAAGAAATAGTGCGGTTTACACGGCAGCTGCAGCGAGTCCACCCCAACGTGCTTGTAAAG
CACTGACCCGAGGAATTTCCACCAGGACAAGAACCCTTGTGGTCATCAATAAGCCCTACGGTCTCCCTGT
GCATGGTGGCCCTGGGGTCCAGCTCTGCATCACTGATGTACTACCTATCCTGGCAAAGATGCTTCATGGC
CACAAGGCAGAGCCCTTGATCTGTGCCACCGGCTGGACAAGGAAACACAGGTGAATGGTGTGGCTT
GGGACAAGGACATGGCAGATCAAGTCCAAGAGTTGTTTAGAACCCGTCAGGTGGTGAAGAAGTACTGGGC
CATCACTGTGCATGTCCCATGCCCTCAGCAGGAGTCTGGACATCCCCATTGTGGAGAAGGAGGCGCAA
GGCCAGCAGCAACACCACAAGATGACATTGTCCCGAGCTACCGCATGGACGATGGGAAAATGGTGAAG
TGCGGCGCAGCCGAATGCGCAAGTTGCTGTAACCTCAGTACCAGGTGCTCAGCAGCACTCTCTCTCCGC
CCTCGTGGAGCTCCAGCCATCACTGGAATAAAACATCAGCTTCGAGTTCACTTGTCTTTTGGATTGGAT
TGTCGAATCCTTGGTGATCACAAGTACTCAGACTGGAATAGGTTGGCCCCCAGAAGCTGTCTGTGGCA
CCCTGAAGAAGCTGGGGCTAGAACAGTCGAAGGCCCGTACATCCCCCTTCACTGCACGCCCCGGCAGCT
GATCCTGCCTGCCCTGGGGTCCGGAAGGAGGAAGTCAACTTGGTCTGAAAATCTCTCGCTTCTTTGTG
CATTCCCTGCACCGCCTGCGTTTAGAGATGCCAATGAGGATCAAAATGAGAACAATGAAGCCAAGTGTC
TGGGAGCACAGTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032795 unedited <pre> AGTATTTTGTAAATACGACTCACTATTAGGGCGGCCGATTTCGGCACGAGGCCCGCCCTT CCTTGTAAGATGGCGGCGCCAGGTGGAGCGCGTCGGGCCCTGGATCCGGGAAACGGC CAAGGTTGCGGGAGTCTCTTCACTCTCGTCTCAAAGCCATTTGTGCCGTGCCGCTGCC TCTACGGCCATAAATGCCCGGAGATTAGCGGAGAAGCTCCGAGCCAGAAACGGGAACAA GACACAAAGAAGGAGCCGGTGTCCACAAACGCTGTTACGCGGAGAGTGCAAGAAATAGTG CGGTTACACGGCAGCTGCAGCGAGTCCACCCCAACGTGCTTGAAGGCACTGACCCGA GGAATTCTCCACCAGGACAAGAACCCTTGTTGTCATCAATAAGCCCTACGGTCTCCCTGTG CATGGTGGCCCTGGGGTCCAGCTCTGCATCACTGATGTACTACCTATCCTGGCAAAGATG CTTCATGGCCACAAGGCAGAGCCCTTGATCTGTGCCACCGGCTGGACAAGGAAACCACA GGTGTAATGGTGTGGCTTGGGACAAGGACATGGCACATCAAGTCCAAGAGTTGTTTAGA ACCCGTGAGGTGGTGAAGAAGTACTGGGCCATCACTGTGCATGTCCCATGCCCTCAGCA GGAGTCGTGGACATCCCCATTGTGGAGAAGGAGGCGCAAGGCCAGCAGCAACACCACAAG ATGACATTGTCCCGAGCTACCGCATGGACGATGGGAAAATGGTAAAAGTGGCGGCAGC CCGAATGCGCAAGNTGCTGTAACACTAGTACCAGGTGCTCAGCAGCACTCTCTCTNCNC CTCGTGGAGCTCCAGCCATCACTGGNNATANACATCAGCTTCGAGTCACTTGTCTTTG NATGGNATNGNCCATNCTNGTGATCACAGTACTCAGACTGGAATAGGTGNCC </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032795 unedited <pre> TTTGGACGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGTGCTTTCAAGTT AAATTTATTATGCACAGTAATGGGTACCATGGAGACAGGAAAGGGCTAGAAAGTGGCAT CATCTATACAGAGGGAACATATAAGACTGTCCCGGGTGTACCCCTAACTGTGCTGT CACTCCAACTCTGTCAGAAAGAAAAAGTAGTGTGAGGTGATTTGTTTGAAGAAACAAG GTGGAAACTAGATGGACCAGCTGAGCAGGAGGCAAGGTCATTTCCATCTATCCCTAAT GGTGTTACAGTATAGCCCTCTCCTTCTGAGACCTAAGAACAGAAGATACGCTTCCACAAC AGAGATTTTTGATTTTTAATGGCAGCACTCTCATAACTACATTACGGACCAACCAAAG CCATCTCCAAGCTAGAAAGGATACATACTACACGCAGCGAAAATGCCAACCACTGATCC AGAATTTTCAAGATGGCACCTTTCCCAAACTTCTATACCATTATTAACATAGACTGC AAACTGTAGCCTGTAGACCAAATTAACCTCTAAGTATTATTTGCTTAGGTGCCTAAGC ATCTTTAAAAATTTGATTTAGTTGGCAATACACTGGGAGGTTTACATAAATATCTAGGT TTCCAGCTTCTCTGAAGAAATGAGAAAATCCATTTCCACATGGGCACAACCACTGGAGC TAACAGCTGTTAGACAGCATGCTGCTCCCGCTACTGGCTTACACCCAGCCAGCTTCATG TGTGCATGTTATCTGCCTGCCATCACATCGGTCTCCCTGCTCAGCAATGTCCACCTCAC CTCACACTCATACCCTTATACAGTTCCTAATCAGATTAGTGGCCACCCCACTATAGC TNGGCATCCCTGGAGCTGGAAATTTGTAACATNTGNTCTTACCACGGACCTNCTAGAG TCAGACTCCTGTGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032795
Insert Size:	2640 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:	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_032795.1, NP_116184.1</u>
RefSeq Size:	2146 bp
RefSeq ORF:	1134 bp
Locus ID:	84881
UniProt ID:	<u>Q96CM3</u>
Cytogenetics:	11q24.2
Domains:	PseudoU_synth_2
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 (PubMed:27974379). Acts on position 39 in mitochondrial tRNA(Phe) (PubMed:28082677). 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 (PubMed:27667664). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).