

Product datasheet for MC211270

Rpsud4 (NM_028040) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpsud4 (NM_028040) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rpsud4
Synonyms:	2410001E19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211270 representing NM_028040 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCGCGCCCTGCTTGCGTACGCCTGGTGTCCAGCTTTTGAGTATGAGTTGCGGTCCCGGAGATTGT
 TCACTCCCGGCTCCTGGTCGTTTTGTTCCAGCGCTACTTCCTCTAGGCCCTGAATGCTCAGAGATTGGC
 AGAGAAGCTCCGAGCCAGAAACAAGAGCAAAGGAAGTGGGGTGCCTACAAACCCGTTTCAG
 CGGAGAGTGCAGGAAGTGTGCGATTACACAGCAGCTGCAGCGAGTTCACCCCAATGTGCTTGCTAAGG
 AACTGAGCCGAAGGATTCTCCACCAGGACAACGACCTCGTGGTCATTAATAAACCTATGGTCTCCCTGT
 CCATGGTGGCCAGGAGTCCAGCTCTGCATCAGTGATGTACTGCCCATCTTGGCAAAGATGCTTCATGGC
 CACAAGGCAGAACCTTTGCATCTGTGCCACCGTCTGGACAAAGAAACACAGGTGTAATGTTTTGGCTT
 GGGAGAAGGACATGGCACATCAAGTCCAGGAGCTATTTAGAACCCGCCAGGTGGAAAAGAAGTACTGGGC
 CATCACGGTGCCTGTTCCCTTGGCCTCGGCAGGAGTCTGGGATATCCCCATCAAGGAGAAAGAAGTGCAG
 GGGCCTCAGCAACACCACAAGATGACGCTGTCCCAAGTTACCGTCTGGACAATGGGAAATGGTAAAGG
 TACGGGCCAGCCGCGATGCGCACGTTGCTGTAAACGAGTACCAGTGCTTAGCAGCGCTTCCTCTCTGC
 CCTTGTGGAGCTCCAGCCTGTTACTGGAATAAAGCATCAGCTCCGAGTTCACCTGTCCTTTGGGCTGGAT
 TGCCCAATCCTTGGGGATCACAAGTACTCAGACTGGACTAGGTTGGCCCTCAGAACTTTCTGCTGGCA
 CACTGAAGAAGCTGGGGCTACAGCAGTCAAAGGCCGCTACATCCGCTTACCTGCACGCCAGGCAGCT
 CATCCTGCCTGCTCTGGGCTCCAGGACAGAGGAACCTCCTGACCTGCAAGCTTCTCACTTCTTTGCA
 CGTTCCCTGCTCCGACTGGGTTTAGATATGCCAAATCAGGATCAAAGCCGAGGCAATAAGGCCAGGCATG
 TGAAGCACGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_028040
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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_028040.2</u> , <u>NP_082316.1</u>
RefSeq Size:	1827 bp
RefSeq ORF:	1134 bp
Locus ID:	71989
UniProt ID:	<u>Q9CWX4</u>
Cytogenetics:	9 A4
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]