

## Product datasheet for **SC112962**

### **RPL41 (NM\_021104) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPL41 (NM_021104) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPL41
Synonyms:	L41
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021104, the custom clone sequence may differ by one or more nucleotides

[ATGAGAGCCAAGTGGAGGAAGAAGCGAATGCGCAGGCTGAAGCGCAAAGAAGAAAGATGAGGCAGAGGTCCAAGTAA](#)

#### 5' Read Nucleotide Sequence:

>OriGene 5' read for NM\_021104 unedited  
GCACGAGGTGTTTTTTGGTTCCCTGCGTTGGGATTCCGTGTACAATCCATAGACATCTGAC  
CTCGGCACTTAGCATCATCACAGCAAATAACTGTAGCCTTTCTCTTTCCCTGTAGAA  
ACCTCTGCGCCATGAGAGCCAAGTGGAGGAAGAAGCGAATGCGCAGGCTGAAGCGCAAAA  
GAAGAAAGATGAGGCAGAGGTCCAAGTAAACCGCTAGCTTGTTGCACCGTGGAGGCCACA  
GGAGCAGAAACATGGAATGCCAGACGCTGGGGATGCTGGTACAAGTTGTGGGACTGCATG  
CTACTGTCTAGAGCTTGCTCAATGGATCTAGAACTTCATCGCCCTCTGATCGCCGATCA  
CCTCTGAGACCCACCTTGCTCATAAAACAAAATGCCATGTTGGTCTCTGCCCTGGACCT  
GTGACATTCTGGACTATTTCTGTGTTTATTTGTGGCCGAGTGAACAACCATATAATAAA  
TCACCTCTCCGCTGTTTTAGCTGAAGAATTANNNNAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAA



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_021104 unedited GACCTTTACGGCTAAACAGCGGTAGTAGTTGATTATTATATGGTTGTACTCGGCCAC AAATAACACAGTAAATAGTCCAGAATGTCACAGGTCCAGGGCAGAGGACCAACATGGGC ATTTTGTATGAGCAAGGTGGGTCTCAGAGGTGATCGGCGATCAGAGGGCGATGAAGTT CTAGATCCATTGAGACAAGCTCTAGACAGTAGCATGCAGTCCCACAACCTGTACCAGCAT CCCCAGCGTCTGGCATTCCATGTTTCTGCTCCTGTGGCCTCCACGGTGCAACAAGCTAGC GGTTTACTTGGACCTCTGCCTCATCTTTCTTTTTCGCTTCAGCCTGCGCATTGCTT CTTCTCCACTTGGCTCTCATGGCGCAGAGGTTTCTACAGGAAAGAGAGAAAGGCTACA GTTAGTTTGTGTGATGATGCTAAGTGCCGAGGTGAGATGTCTATGGATTGTACACGGAA TCCCAACGCAGGAACCAAAAAACACCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTC GTATTACAAAATTCTGACGGTTCATAAACGAGCTCTGCTTATATAGACCTNCCACCGTA CACGCCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACGACATTTTGCAAAGTCCC GTTGATTTTGGTCCAAAACAACTCCCATTGACGTCAATGGGGTGGAGACTTTGGAATC CCCGTGAGTCAAACCGCTATCCACGCCATTGTTGTACTGCCAAAACCGATTACCATGG TAATAGCGATGACTAATACGTAGATGTACTGCCAGTTAGGAAGTCCGTAAGTCATGTA CTGGGCATTATGCCAGGGGGCCATTTACCGCCATTGACGTCAATAGGGGGCCGGACTTG CCATATGATCCACTTGGAGTACTGCCAAGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021104
<b>Insert Size:</b>	700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_021104.1</a></u> , <u><a href="#">NP_066927.1</a></u>
<b>RefSeq Size:</b>	478 bp
<b>RefSeq ORF:</b>	78 bp
<b>Locus ID:</b>	6171
<b>UniProt ID:</b>	<u><a href="#">P62945</a></u>
<b>Cytogenetics:</b>	12q13.2
<b>Protein Pathways:</b>	Ribosome

**Gene Summary:**

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein, which shares sequence similarity with the yeast ribosomal protein YL41, belongs to the L41E family of ribosomal proteins. It is located in the cytoplasm. The protein can interact with the beta subunit of protein kinase CKII and can stimulate the phosphorylation of DNA topoisomerase II-alpha by CKII. Two alternative splice variants have been identified, both encoding the same protein. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the predominant transcript. Variants 1 and 2 encode the same protein.