

## Product datasheet for SC119532

### RPS21 (NM\_001024) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPS21 (NM_001024) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS21
Synonyms:	HLDF; S21
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119532 sequence for NM_001024 edited (data generated by NextGen Sequencing)

```
ATGCAGAACGACGCCGGCGAGTTCGTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGC
AATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAGATGAACGTGGCCGAGGTTGAC
AAGGTCACAGGCAGGTTTAAATGGCCAGTTTAAACTTATGCTATCTGCGGGGCCATTTCGT
AGGATGGGTGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATGGCATCGTCTCA
AAGAACTTTTGA
```

Clone variation with respect to NM\_001024.3

#### 5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001024 unedited
AATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGCAGGCGCAGC
CCAGCCTCGAAATGCAGAACGACGCCGGCGAGTTCGTGGACCTGTACGTGCCGCGGAAAT
GCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAGATGAACGTGG
CCGAGGTTGACAAGGTCACAGGCAGGTTTAAATGGCCAGTTTAAACTTATGCTATCTGCG
GGGCCATTTCGTAGGATGGGTGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATG
GCATCGTCTCAAAGAACTTTTGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAAA
TAAATAATGAAAACCTAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTC
ATAGCTGTTTCCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTC
CTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTAATAAAATTAAGTTGC
ATCATTGTTGCTGACTAGGTGTCCTTCTATAATATTATGGGGTGGAGGGGGTGGGTATG
GAACCAAGGGGCAAGNTGGGAAGACAACCTGTAGGGCTGCCNGGTCTATTGGGAACC
AAGCTGGGAGTGCAAGTGGCACAATCTGGCTCACTGCAATCTCCGCTTCTGGGTTCAAG
CGAATCTCCTGCCTCAGCCTCCCGAGTTGTTGGGATCCAGGCATGCTGACCCAGCTT
CACTAATTTTTGTTTTTTGTAACCAACGGGGTTACCATATTGGCCAGCCTGGGCTCCAC
CTCTAATTTAGGTGAACACCCCTAGCCCCCAATGCTGGGAATCA
```



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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001024 unedited  GGACGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGGTTTTTCATTATTTA  TTTATGACAAATATTCCACATCTGTGATTCTCTCCAGTCAAAGTTCTTTGAGACGATGC  CATCGGCCTTGGCCAATCGGAGAATGGAATCATCTGACTACCCATCCTACGAATGGCCC  CGCAGATAGCATAAGTTTTAAACTGGCCATTAACCTGCCTGTGACCTTGCAACCTCGG  CCACGTTTCATCTGGATGGATGCGTGGTCCTTGGCACCGATGATGCGATTGCTAGCGGAGC  ATTTCCGCGGCACGTACAGGTCCACGAACTCGCCGGCGTCGTTCTGCATTCGAGGCTGG  GCTGCGCCTGCTCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAAT  TCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCCACCCGTACACGCCTACCG  CCCATTGTGTCAACGGGGCGGGTTATTTACGACATTTTGAAAAGTCCCCTTGATTTTG  GTGCCAAAACAACTCCCATGGACGTCAATGGTGTGGAGACTTGAAAATCCCCGTGAGCC  AAACCGCTATCCACGCCATTGGTGTACTGCCAAAACCGCATCACCATGGTAATAGCGAT  GACTAATACGTAGATGTCCTGCCAAGTAGGAAGTCCCGTAAGGCCATGTACCGGGCATAA  TGCCCGGGGGCCATTTACCGTATTGACCTCATAGGGGGCGGACTTGCCTTTGACCCCTG  ATGTAAGTCCAGGGGCATTCCCCCGATCACCTCCCCCTTGCCCCCATGAAAAGCCCTAT  TGCGTACCATGGAACCTACGCCATTTGACTCCACGGCGGGTCTTGCCCGGTATCCAC  CCCGCCTTTTACCTAATCCCTTACCCGGTCCCCCTACTGGCCTTTACACATCCCCCGT  ATGTCCACCTCTAACCCCTACACACCCGTCCCATCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001024
<b>Insert Size:</b>	340 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_001024.3</a></u> , <u><a href="#">NP_001015.1</a></u>
<b>RefSeq Size:</b>	418 bp
<b>RefSeq ORF:</b>	252 bp
<b>Locus ID:</b>	6227
<b>UniProt ID:</b>	<u><a href="#">P63220</a></u>
<b>Cytogenetics:</b>	20q13.33
<b>Domains:</b>	Ribosomal_S21e

**Protein Pathways:** 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 40S subunit. The protein belongs to the S21E family of ribosomal proteins. It is located in the cytoplasm. Alternative splice variants that encode different protein isoforms have been described, but their existence has not been verified. 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]