

## Product datasheet for **SC119571**

### **RPL5 (NM\_000969) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPL5 (NM_000969) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPL5
Synonyms:	L5; MSTP030; PPP1R135; uL18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119571 sequence for NM_000969 edited (data generated by NextGen Sequencing)

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ATGGGGTTTGTAAAGTTGTTAAGAATAAGGCCTACTTTAAGAGATACCAAGTGAATTT
AGAAGACGACGAGAGGGTAAAACCTGATTATTATGCTCGGAAACGCTTGGTGATACAAGAT
AAAAATAAATACAACACACCCAAATACAGGATGATAGTTCGTGTGACAAACAGAGATATC
ATTTGTCAGATTGCTTATGCCCGTATAGAGGGGGATATGATAGTCTGCGCAGCGTATGCA
CACGAACTGCCAAAATATGGTGTGAAGGTTGGCCTGACAAATTATGCTGCAGCATATTGT
ACTGGCCTGCTGCTGGCCCGCAGGCTTCTCAATAGGTTTGGCATGGACAAGATCTATGAA
GGCCAAGTGGAGGTGACTGGTATGAATACAATGTGGAAAGCATTGATGGTCAGCCAGGT
GCCTTCACCTGCTATTTGGATGCAGGCCTGCCAGAACTACCACTGGCAATAAAGTTTTT
GGTGCCCTGAAGGAGCTGTGGATGGAGGCTTGTCTATCCCTCACAGTACCAAACGATTC
CCTGGTTATGATTCTGAAAGCAAGGAATTAATGCAGAAGTACATCGGAAAGCACATCATG
GGCCAGAATGTTGCAGATTACATGCGCTACTTAATGGAAGAAGATGAAGATGCTTACAAG
AAACAGTTCTCTCAATACATAAAGAACAGCGTAACTCCAGACATGATGGAGGAGATGTAT
AAGAAAGCTCATGCTGCTATACGAGAGAATCCAGTCTATGAAAAGAAGCCCAAGAAAGAA
GTTAAAAAGAAGAGGTGGAACCGTCCCAAAATGTCCCTTGCTCAGAAGAAGGATCGGGTA
GCTCAAAAAGAAGCAAGCTTCTCAGAGCTCAGGAGCGGGCTGCTGAGAGCTAA
```

Clone variation with respect to NM\_000969.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000969 unedited</p> <pre>NNNTTGTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCCTAGC GCCGCTGGGCCTGCAGGTCTCTGTCCGAGCAGCGGACGCCGGTCTCTGTTCCGCNAGATGG GGTTTGTAAAGTTGTTAAGAATAAGGCCTACTTTAAGAGATACCAAGTAAAATTTAGAA GACGACGAGAGGGTAAAACCTGATTATTATGCTCGGAAACGCTTGGTGATACAAGATAAAA ATAAATAACAACACACCAAAATACAGGATGATAGTTCGTGTGACAAACAGAGATATCATTT GTCAGATTGCTTATGCCCGTATAGAGGGGATATGATAGTCTGCGCAGCGTATGCACACG AACTGCCAAAATATGGTGTGAAAGGTTGGCCTGACAAATTATGCTGCAGCATATTGTA GGCCTGTCTGTGNCCGAGGCTTCTAATAGGGTTTGGCATGGACAAGATCTATGAAGGC CAAGTGGAGGTGACTGGTGATGAATACAATGTGGAAAGATTTGATGGTCAGCCAGGTGCC TTCACCTGCTATTTGGATGCANGCCTTGCAGAACTACCACTGGAATAAAGTTTTTTGGT GCCCTGAAGGGAGCTGTGGAATGAAAGCTTTGTNCTATCCTCACAGTACCAAACGATTCC CTGGNNATGATCCTGAAAGCAAGGGATNTAATGGCAGAAGTACATCGGAAGCACATCA TGGGCCAGATGGTTGCAGATTACATGCGCTACTTAATGGNAAGAGNATTGAGATGCTTA CAGGAAACAGTTCTCTCAATACATAAAGAACAGCGTAACTTCGACTGATGNGGGGGAAA GGTTTAAAAAAGCTCATGCTGGTATACGAGAGAATTCAGTCTATGAAAGAAGCCAGGAA AGAGTTAAAAGAAGAGGGGGACA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000969 unedited</p> <pre>GACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTGTTCAAGTTTA TTATCTATATCTGAAAAATATAGAAATTGCTGGGTTTAGCTCTCAGCAGCCCGCTCTGA GCTCTGAGGAAGCTTGCCTTCTTTTGGCTACCCGATCCTTCTTCTGAGCAAGGGACATT TTGGGACGGTCCACCTCTTCTTTTAACTTCTTCTTGGGCTTCTTTTCATAGACTGGA TTCTCTCGTATAGCAGCATGAGCTTTCTTATACATCTCCTCCATCATGTCTGGAGTTACG CTGTTCTTTATGTATTGAGAGAAGTGTCTTGTAAAGCATCTTCACTTCTTCCATTAAG TAGCGCATGTAATCTGCAACATTCTGGCCATGATGTGCTCCGATGACTTCTGCATTA AATTCCTTGCTTTCAGAAATCATAACCAGGGAAATCGTTGGTACTGTGAGGGATAGACAAG CCTCCATCCACAGCTCCCTTCAGGGCACAAAACCTTTATTGCCAGTGGTAGTTCTGGCA AGGCTGCATCCAAATAGCAGGTGAAGGCACCTGGCTGACCATCAATGCTTCCACATTG TATTCATCACCAGTCACCTCCACTTGGCCTTCATAGATCTTGTCCATGCCAAACCTATTG AGAAGCCTGCGGGCCAGCAGCAGGCCAGTACAATATGCTGCAGCATAATTTGTCAGGCCA ACCTTCAACCATATTTTTGGCAGTTCGTGTGCATACGCTGCGCAGATATCATATCCCTCT ATACGGGCATAAGCATCTGACAATGATATCTCTGTTTGTACACGAACTATATNCTGTATT GGGNNNGTGNATTATTTTTATCTTGATCACCAGCGTTTCGAGCATATATCAGNTTACC NTTTGNCGCTTTAAATTACTNG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000969
<b>Insert Size:</b>	980 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).

**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:** [NM\\_000969.3](#), [NP\\_000960.2](#)

**RefSeq Size:** 1035 bp

**RefSeq ORF:** 894 bp

**Locus ID:** 6125

**UniProt ID:** [P46777](#)

**Cytogenetics:** 1p22.1

**Domains:** Ribosomal\_L18p

**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 four RNA species and approximately 80 structurally distinct proteins. This gene encodes a member of the L18P family of ribosomal proteins and component of the 60S subunit. The encoded protein binds 5S rRNA to form a stable complex called the 5S ribonucleoprotein particle (RNP), which is necessary for the transport of nonribosome-associated cytoplasmic 5S rRNA to the nucleolus for assembly into ribosomes. The encoded protein may also function to inhibit tumorigenesis through the activation of downstream tumor suppressors and the downregulation of oncoprotein expression. Mutations in this gene have been identified in patients with Diamond-Blackfan Anemia (DBA). This gene is co-transcribed with the small nucleolar RNA gene U21, which is located in its fifth intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed throughout the genome. [provided by RefSeq, Mar 2017]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the supported protein.