

Product datasheet for **SC119574**

RPL7A (NM_000972) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPL7A (NM_000972) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPL7A
Synonyms:	L7A; SURF3; TRUP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119574 sequence for NM_000972 edited (data generated by NextGen Sequencing)

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ATGCCGAAAGGAAAGAAGGCCAAGGAAAGAAGGTGGCTCCGCCCCAGCTGTCGTGAAG
AAGCAGGAGGCTAAGAAAGTGGTGAATCCCTGTTTGAGAAAAGCCTAAGAATTTTGGC
ATTGGACAGGACATCCAGCCAAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTAT
ATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATT
AACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCAC
AAGTACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCGGGCCGAGAAG
AAGGCTGCTGGCAAAGGGGACGTCCCAACGAAGAGACCACCTGTCCTTCGAGCAGGAGTT
AACACCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTATTGCACACGAC
GTGGATCCCATCGAGCTGGTTGTCTTCTGCTGCCCTGTGTCGTA AAAATGGGGTCCCT
TACTGCATTATCAAGGAAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACC
ACTGTGCGCTTACACAGGTGAAGTCCGGAAGACAAGGCGCTTTGGCTAAGCTGGTGGAA
GCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGCTCACTGGGGTGGCAAT
GTCCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAGAA
CTTGCCACTAACTGGGTAA
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Clone variation with respect to NM_000972.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000972 unedited TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGATGCCGAAAGGAAA GAAGGCCAAGGGGAAAGAAGGTGGCTCCGGCCCCAGCTGTCTGAAGAAGCAGGAGGCTA AGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCAAGAATTTTGGCATTGGACAGGACA TCCAGCCCAAAAGAGACCTCACCCGCTTGTGAAATGGCCCCGCTATATCAGGTTGCAGC GGCAGAGAGCCATCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAACCAGTTCACCC AGGCCCTGGACCCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCACAAGTACAGACCAG AGACAAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCGGCCGAGAAGAAGGCTGCTGGCA AAGGGGACGTCCCAACGAAGAGACCACCTGTCCTTCGAGCAGGAGTTAACACCGTACCA CCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTATTGCACACGACGTGGATCCCATCG AGCTGGTTGTCTTCTGCCTGCCCTGTGTCGTAATAAGGGGGTCCCTTACTGCATTATCA AGGGAAGGCAAGACTGNGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCGCCTTCA CACAGGTGAACCGAAGACANAGGCGCTTTGGCTAAGCTGGTGAAGCTATCANGACCA ATTACCATGACAGATACGATGAGATCCGCCGCTACTGGGGTGGCAATGTCCTCGGTCT CAAGTCTGTGGCCTCGTATCGCCAGCTCCGAAAGGCAAGGCCTAAGAACTGCCACTAN ACTGGGNTAAATGTACCCTGGNGGAATTTCTGTACCTAAAAAATAATGGAATAATACAAA ATTCCTTCAAAAAAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000972 unedited GTACCGCGGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGGAAAATTTGT ATTATTTCAATTATTTTTATGTACAGAAAACCAACAGTGTACATTTAACCCAGTTTGT GGCAAGTCTTTAGCCTTTGCCCTTTTCGAGCTTGGCGATACGAGCCACAGACTTAGGACC CAGGACATTGCCACCCAGTGACGGCGGATCTCATCGTATCTGTCATTGTAATTGGTCTCT GATAGCTTCCACCAGCTTAGCCAAAGCGCTTTGTCTTCGAGTTCACCTGTGTGAAGGC GACAGTGGTGCAGTCTTCTGTGGACTAGACGTCCCAGTCTTGCCTTTCCCTTGATAAT GCAGTAAGGGACCCCATTTTACGACACAGGGCAGGCAAGAAGACAACCAGCTCGATGGG ATCCACGTGCTGTGCAATCACCACCAGCTGAGCTTTCTTGTCTCCACCAAGGTGGTGAC GGTGTTAACTCCTGCTCGAAGGACAGGTGGTCTCTTCTGTTGGGACGTCCCTTTGCCAGC AGCCTTCTTCGGCCCGGGCCAACAGTCTCTGCTTCTTCTTGTCTTGTCTGGTCT GTACTTGTGGCCAGCTTAAGCAGCTGAGTAGCTGTTGGCGGTCCAGGGCCTGGGTGAA CTGGTTAATCGCAGGAGGCACCTTCAGCCGCTAATAGAGGATGGCTCTCTGCCGCTGCCA CCTGTATAGCGGGCCATTTACAAGCGGTTGAGGTCTCTTTTGGGCTGGATGTCCTGTC CAATGCCAAATTTAAGGCTTTTCTCAACAGGGGATTACCACTTTTTTTTACCTCTGCTCT TCCAGACGCTGGGGCCGGGCCCTTTTCTTGGGCTCTTCTTGGGATTCTCGGGCC GATTCCGGCGCTATG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000972
Insert Size:	930 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:	<ol style="list-style-type: none">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_000972.2 , NP_000963.1
RefSeq Size:	890 bp
RefSeq ORF:	801 bp
Locus ID:	6130
UniProt ID:	P62424
Cytogenetics:	9q34.2
Domains:	Ribosomal_L7Ae
Protein Families:	Druggable Genome
Protein Pathways:	Ribosome
Gene Summary:	<p>Cytoplasmic ribosomes, 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 belongs to the L7AE family of ribosomal proteins. It can interact with a subclass of nuclear hormone receptors, including thyroid hormone receptor, and inhibit their ability to transactivate by preventing their binding to their DNA response elements. This gene is included in the surfeit gene cluster, a group of very tightly linked genes that do not share sequence similarity. It is co-transcribed with the U24, U36a, U36b, and U36c small nucleolar RNA genes, which are located in its second, fifth, fourth, and sixth introns, respectively. This gene rearranges with the trk proto-oncogene to form the chimeric oncogene trk-2h, which encodes an oncoprotein consisting of the N terminus of ribosomal protein L7a fused to the receptor tyrosine kinase domain of trk. 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]</p>