

Product datasheet for **SC119490**

RPL22 (NM_000983) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPL22 (NM_000983) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPL22
Synonyms:	EAP; HBP15; HBP15/L22; L22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000983 edited ATGGCTCCTGTGAAAAAGCTTGTGGTGAAGGGGGGCAAAAAAGAAGCAAGTTCTGAAG TTCACCTTTGATTGCACCCACCCTGTAGAAGATGGAATCATGGATGCTGCCAATTTTGAG CAGTTTTTGAAGAAAGGATCAAAGTGAACGGAAGCTGGGAACCTTGGTGGAGGGGTG GTGACCATCGAAAGGAGCAAGAGCAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAA AGGTATTTGAAATATCTACCAAAAAATATTTGAAGAAGAATAATCTACGTGACTGGTTG CGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTACGTTACTTCCAGATTAACCAAGGAC GAAGAAGAGGAGGAAGACGAGGATTAA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000983 unedited GTTACCATTTGTATACGACTTACTATAGGCGGCCGCAATTCGCACGAGGTGCCGCCAT GGCTCCTGTGAAAACTTGTGGTGAAGGGGGGCAAAAAAGAAGCAAGTTCTGAAGTTC ACTCTTGATTGCACCCACCCTGTAGAAGATGGAATCATGGATGCTGCCAATTTTGAGCAG TTTTTGAAGAAAGGATCAAAGTGAACGGAAGCTGGGAACCTTGGTGGAGGGGTGGT ACCATCGAAAGGAGCAAGAGCAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAAAGG TATTTGAAATATCTACCAAAAAATATTTGAAGAAGAATAATCTACGTGACTGGTTGCGC GTAGTTGCTAACAGCAAAGAGAGTTACGAATTACGTTACTTCCAGATTAACCAAGGACGAA GAAGAGGAGGAAGACGAGGATTAATTTTCAATTTATCTGGAATTTTGTATGAGTTCTTG AATAAACTTGGGAACCAAAATGGTGGTTATCCTTGTATCTCTGCAAGTGTGGATTGAAC AGAAAATTGGAATCATAGTCAAAGGGCTTCCCTTGGTTTCGCCACTCATTATTTGTAAC TTGACTTCTTTTTTTTCTGCTTAAAAATTTCAATTTCTCGTGGGTATACCAGAGTAGAAG GAGAGGGTGACTTTACCGAACTGACAGCCATTGGGGAGGCANATGCGGGTGTGGGAGTGT GGGCCTGAAGTANTGACTGTTTGATTTAAAAAGTGTGACTGTCACGTGTATCTGTTGCTT TTCTCAATGATTCAGGGATACAAATGGGGCTTCTCTATTCAATTTAAAGAAAACCCGACA TCTTTTCTAAGATCTCTTGGGGAAAATGACTGTCAATAAATGCCGGGTTTTGGGGCCATC GCCTACTTTTCATTTTGA



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000983 unedited TATGGACCGGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAGCCAGGTGTT AGCCACTTTAATAGAAATATGATCAAACTCGATTACAAGAGTTCAAAAAGACATAGAAA ACCACTGAGTTTCAATTTTATTACAAGTTTCAAACTGCGGACTAGTTTCTTTTTTTCTT TTAACTGAAATGCCAACTTCAGCCCAGGGTTTTTCAACCAAACTAAAAATGACTTAC TACATGGGAACATCAATGCAACAAGTAGAATTTGTAACTCAAGCCACAACTTAGTTAA TAATCATGGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAAGTTTGAAAGAA ACTCTGCTTTCTGTGACGGCAGAGAAGAAATATGCAAGCAATTCTGCTTCAAAGAAATTT GCATAGAAATGGAAAAATGCCAGAGCCTTTAACACAAGTGAAATTGCAAGCCTCAACAC GTTCAACTCAATCCACAGAGCACCAATGTTTAAATGGGAGCCAAGGTAGGACTGAGCATT GAACCTCCAGCTATGCAACTCGCAGGGCACAATTTCAAGTGTGGAACCATCTGTAGGCA AGCTCTTTTAAAAACATGAATTTTAGACACCGTANATTCTAATGCAGACACTTTTGCATT ACTGTTTGAATTTCAGAAGGGCACCACAAGGCACCACTTTCAAGTCACTCACAGNCAC ANNTGCATTNTTTCCAGCCTTGGTAGCCCTTTCAAGTGTCTAGCCTCTGCACTGTGG CACACCACTGACATTAAATCCAGTCATGGCCTAAGTGGCATGAGGCAGCTATTTCCAGGG CACCTNCCACCTCCTTGGCATGGGAGGGCTTCCAGCACTNCTNCTCNGTTCCTCTTTC AGACCTNCAAGCTCTGNCATCAGGGCCCCCATGCTGGCCCCACCGAGACCTCGGAACC TATTCTACGCTCCTGT
Restriction Sites:	NotI-NotI
ACCN:	NM_000983
Insert Size:	2170 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.
RefSeq:	<u>NM_000983.3</u> , <u>NP_000974.1</u>
RefSeq Size:	2099 bp
RefSeq ORF:	387 bp
Locus ID:	6146
UniProt ID:	<u>P35268</u>
Cytogenetics:	1p36.31
Domains:	Ribosomal_L22e

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 cytoplasmic ribosomal protein that is a component of the 60S subunit. The protein belongs to the L22E family of ribosomal proteins. Its initiating methionine residue is post-translationally removed. The protein can bind specifically to Epstein-Barr virus-encoded RNAs (EBERs) 1 and 2. The mouse protein has been shown to be capable of binding to heparin. Transcript variants utilizing alternative polyA signals exist. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. It was previously thought that this gene mapped to 3q26 and that it was fused to the acute myeloid leukemia 1 (AML1) gene located at 21q22 in some therapy-related myelodysplastic syndrome patients with 3;21 translocations; however, these fusions actually involve a ribosomal protein L22 pseudogene located at 3q26, and this gene actually maps to 1p36.3-p36.2. [provided by RefSeq, Jul 2008]