

Product datasheet for **RC208910**

RPL22 (NM_000983) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPL22 (NM_000983) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RPL22
Synonyms: EAP; HBP15; HBP15/L22; L22
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208910 representing NM_000983
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCTGTGAAAAAGCTTGTGGTGAAGGGGGCAAAAAAGAAGCAAGTTCTGAAGTTCACTCTTG
ATTGCACCCACCCTGTAGAAGATGGAATCATGGATGCTGCCAATTTTGAGCAGTTTTGCAAGAAAGGAT
CAAAGTGAACGGAAAAGCTGGGAACCTTGGTGGAGGGTGGTACCATCGAAAGGAGCAAGCAAGATC
ACCGTGACATCCGAGGTGCCTTTCTCCAAAAGGATTTTGAATATCTCACCAAAAAATATTTGAAGAAGA
ATAATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGATTACGAATTACGTTACTTCCAGAT
TAACCAGGACGAAGAAGAGGAGGAAGACGAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208910 representing NM_000983
Red=Cloning site Green=Tags(s)
MAPVKKLVVKGKKKKQVLKFTLDCTHPVEDGIMDAANFEQFLQERIKVNGKAGNLGGGVVTIERSKSKI
TVTSEVPFSKRYLKYLTKKYLKKNLRDWRVANSKESYELRYFQINQDEEEEEDED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8121_e04.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_000983

ORF Size: 384 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_000983.4](#)

RefSeq Size: 2099 bp

RefSeq ORF: 387 bp

Locus ID: 6146

UniProt ID: [P35268](#)

Cytogenetics: 1p36.31

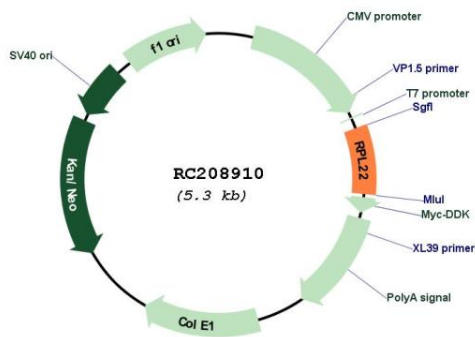
Domains: Ribosomal_L22e

Protein Pathways: Ribosome

MW: 15.2 kDa

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]

Product images:



Circular map for RC208910