

Product datasheet for RC209772

RPL13 (NM_000977) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPL13 (NM_000977) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RPL13
Synonyms: BBC1; D16S44E; D16S444E; L13; SEMDIST
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC209772 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCGCCAGCCGGAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGGTGGCCA
 CGTGGTTCAACCAGCCGGCCCGTAAGATCCGCAGACGTAAGGCCCGCAAGCCAAGGCGCGCCGATCGC
 CCCGCGCCCGCGTGGGTCCCATCCGGCCCATCGTGCCTGCACCACGGTTCGGTACCACAGAAAGGTG
 CGCGCCGCGCGGCTTACGCTGGAGGAGCTCAGGGTGGCCGGCATTACAAGAAGGTGGCCCGGACCA
 TCGGCATTTCTGTGGATCCGAGGAGCGGAACAAGTCCACGGAGTCCCTGCAGGCCAACGTGCAGCGGCT
 GAAGGAGTACCGTCCAACTCATCTCTTCCCGAGGAAGCCCTCAGCCCCAAGAAGGGAGACAGTTCT
 GCTGAAGAACTGAACTGGCCACCCAGCTGACCGACCGGTATGCCCGTCCGGAACGTATAAGAAGG
 AGAAAGCTCGAGTCATCACTGAGGAAGAGAAGATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGC
 CAACGCCCGGCTCTTCGGCATACGGCAAAAAGAGCCAAGGAAGCCGAGAACAGGATGTTGAAAAGAAA
 AAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209772 protein sequence
Red=Cloning site Green=Tags(s)

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKARQAKARRIAPRPASGPPIRPIVRCTTVRYHTKV
 RAGRGFSLLEELRVAGIHKKVARTIGISVDPPIRRNKSTESLQANVQRLKEYRSKLIIFPRKPSAPKKGDS
 AEELKLATQLTGPVMPVRNVYKKEKARVITEEKNFKAFASLRMARANARLFGIRAKRAKEAAEQDVEKK
 K

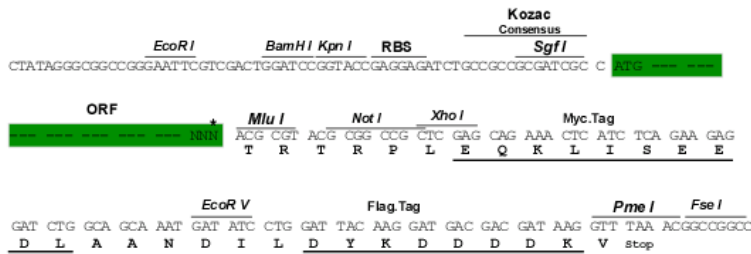
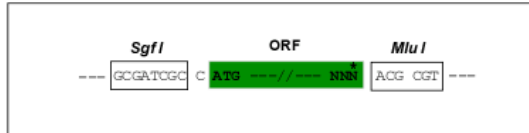
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6510_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_000977

ORF Size: 633 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_000977.4](#)

RefSeq Size: 4499 bp

RefSeq ORF: 636 bp

Locus ID: 6137

UniProt ID: [P26373](#)

Cytogenetics: 17p11.2

Domains: Ribosomal_L13e

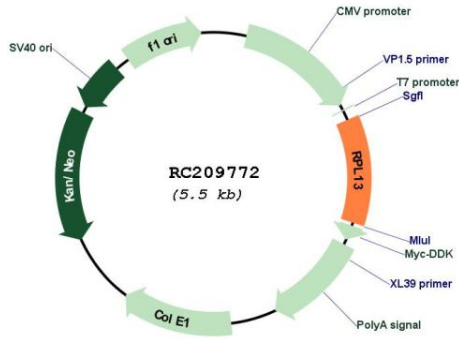
Protein Families: Druggable Genome

Protein Pathways: Ribosome

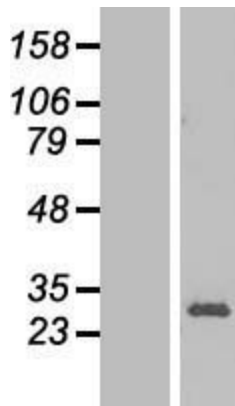
MW: 24.3 kDa

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 ribosomal protein that is a component of the 60S subunit. The protein belongs to the L13E family of ribosomal proteins. It is located in the cytoplasm. This gene is expressed at significantly higher levels in benign breast lesions than in breast carcinomas. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RC209772



Western blot validation of overexpression lysate (Cat# [LY424423]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209772 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).