

Product datasheet for RC201366

Ribosomal protein S10 (RPS10) (NM_001014) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ribosomal protein S10 (RPS10) (NM_001014) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ribosomal protein S10
Synonyms: DBA9; S10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201366 representing NM_001014
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTCATGGTGGCCA
 AGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCAACCTTCATGTCATGAA
 GGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACATTTCTACTGGTAC
 CTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCGGAGATTGTGCCTGCCACCC
 TACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGGGTGGAGGACCTGCGAGACT
 CACAAGAGGGGAAGCTGACAGAGATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCACAAGAAAGCC
 GAGGCTGGGGCTGGGTACGAACCGAATCCAGTTTAGAGGCGGATTTGGTCGTGGAGCTGGTCAGCCAC
 CTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201366 representing NM_001014
 Red=Cloning site Green=Tags(s)

MLMPKKNRIAIYELLFKEGVMVAKKDVHMPKHPELADKNVNLHVMKAMQSLKSRGYVKEQFAWRHFYWY
 LTNEGIQYLRDYLHLPPEIVPATLRRSRPETGRPRPKLEGERPARLTRGEADRDYRRSAVPPGADKKA
 EAGAGSATEFQFRGGFGRGRGQPPQ

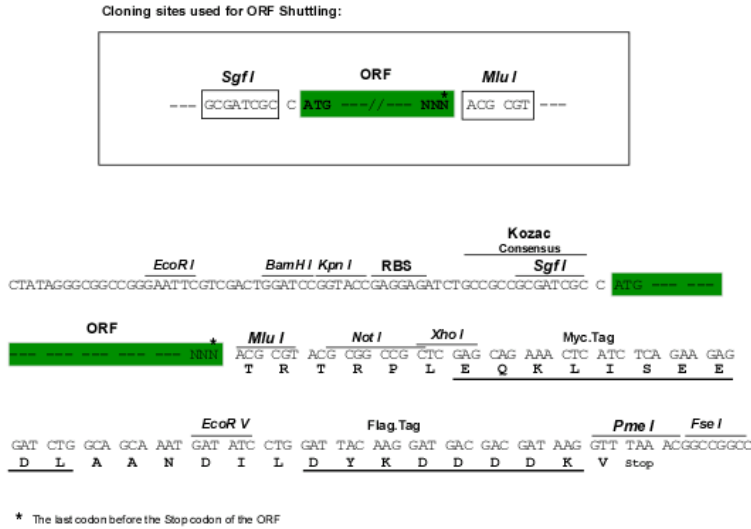
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1466_e05.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001014

ORF Size: 495 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001014.5](#)

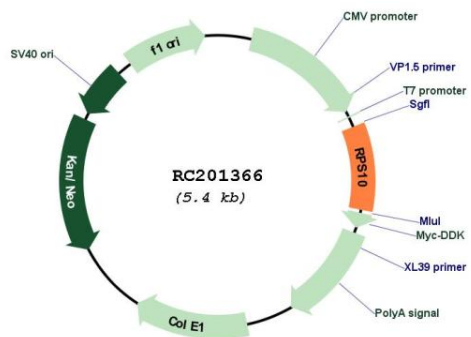
RefSeq Size: 636 bp

RefSeq ORF: 498 bp

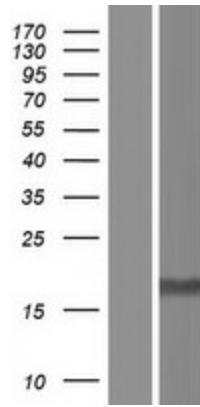
Locus ID: 6204
UniProt ID: [P46783](#)
Cytogenetics: 6p21.31
Domains: S10_pectin
Protein Pathways: Ribosome
MW: 18.7 kDa

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 40S subunit. The protein belongs to the S10E family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Alternate splicing results in multiple transcript variants that encode the same protein. Naturally occurring read-through transcription occurs between this locus and the neighboring locus NUDT3 (nudix (nucleoside diphosphate linked moiety X)-type motif 3).[provided by RefSeq, Feb 2011]

Product images:



Circular map for RC201366



Western blot validation of overexpression lysate (Cat# [LY423047]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201366 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).