

Product datasheet for RC203975

MRPS28 (NM 014018) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MRPS28 (NM_014018) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: MRPS28

Synonyms: COXPD47; HSPC007; MRP-S28; MRP-S35; MRPS35

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC203975 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

Α

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >RC203975 protein sequence

Red=Cloning site Green=Tags(s)

MAALCRTRAVAAESHFLRVFLFFRPFRGVGTESGSESGSSNAKEPKTRAGGFASALERHSELLQKVEPLQ KGSPKNVESFASMLRHSPLTQMGPAKDKLVIGRIFHIVENDLYIDFGGKFHCVCRRPEVDGEKYQKGTRV

RLRLLDLELTSRFLGATTDTTVLEANAVLLGIQESKDSRSKEEHHEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

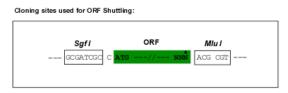
MRPS28 (NM_014018) Human Tagged ORF Clone - RC203975

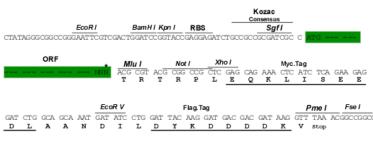
Chromatograms: https://cdn.origene.com/chromatograms/mk6422 h10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_014018

ORF Size: 561 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: <u>NM 014018.3</u>

RefSeq Size: 724 bp



RefSeq ORF: 564 bp Locus ID: 28957

UniProt ID: Q9Y2Q9

Cytogenetics: 8q21.13

Protein Families: Druggable Genome

MW: 20.8 kDa

Gene Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in

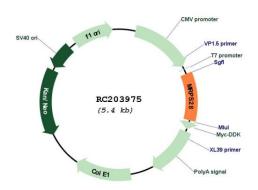
protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that

mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that has been called mitochondrial ribosomal protein S35 in the literature. [provided by

the latter contain a 5S rRNA. Among different species, the proteins comprising the

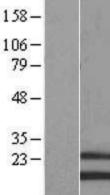
RefSeq, Jul 2008]

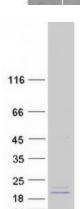
Product images:



Circular map for RC203975







Western blot validation of overexpression lysate (Cat# [LY415523]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203975 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MRPS28 protein (Cat# [TP303975]). The protein was produced from HEK293T cells transfected with MRPS28 cDNA clone (Cat# RC203975) using MegaTran 2.0 (Cat# [TT210002]).