Recombinant Human MRPS11, His-tagged

Cat. No. MRPS11-28172TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-194 of Human MRPS11 with N terminal His tag, 26kDa.
Species	Human
Source	E.coli
ProteinLength	1-194 a.a.
Description	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 the latter contain a 5S rRNA. Among different species, the proteins comprising the 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 contains a high level of sequence similarity with ribosomal protein S11P family members. A pseudogene corresponding to this gene is found on chromosome 20. Sequence analysis identified two transcript variants that encode different protein isoforms.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 164

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	µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MQAVRNAGSRFLRSWTWPQTAGRVVARTPAGTICTGARQL QDAAAKQKVEQNAA PSHTKFSIYPPIPGEESSLRWAGK KFEEIPIAHIKASHNNTQIQVVSASNEPLAFASC GTEGFR NAKKGTGIAAQTAGIAAAARAKQKGVIHIRVVVKGLGP GRLSAMHGLIMG GLEVISITDNTPIPHNGCRPRKARKL
Sequence Similarities	Belongs to the ribosomal protein S11P family.
Full Length	Full L.

GENE INFORMATION

Gene Name	MRPS11 mitochondrial ribosomal protein S11 [Homo sapiens]
Official Symbol	MRPS11
Synonyms	MRPS11; mitochondrial ribosomal protein S11; 28S ribosomal protein S11, mitochondrial; cervical cancer proto oncogene 2; FLJ22512; FLJ23406; HCC 2;
Gene ID	64963
mRNA Refseq	NM_176805
Protein Refseq	NP_789775

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MIM	611977
Uniprot ID	P82912
Chromosome Location	15q25
Function	structural constituent of ribosome;

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