

Recombinant Human MRPL28 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPL28-5258H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL28 MS Standard C13 and N15-labeled recombinant protein (NP_006419) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 39S subunit protein, a part of which was originally isolated by its ability to recognize tyrosinase in an HLA-A24-restricted fashion.
Molecular Mass	30.2 kDa
AA Sequence	MPLHKYPVWLWKRLQLREGICSR L P G H Y L R S L E E E R T P T P V H Y R P H G A K F K I N P K N G Q R E R V E D V P I P I Y F P P E S Q R G L W G G E G W I L G Q I Y A N N D K L S K R L K K V W K P Q L F E R E F Y S E I L D K K F T V T V T M R T L D L I D E A Y G L D F Y I L K T P K E D L C S K F G M D L K R G M L L R L A R

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QDPQLHPEDPERRAAIYDKYKEFAIPEEEAEWVGLTLEEAIKQRLLEEKDPVPLFKI
YVAELIQQLQQQALSEPAVVQKRASGQTRTRPLEQKLISEEDLAANDILDYKDDDDK
V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MRPL28 mitochondrial ribosomal protein L28 [Homo sapiens (human)]

Official Symbol MRPL28

Synonyms MRPL28; mitochondrial ribosomal protein L28; MAAT1, melanoma associated antigen recognised by cytotoxic T lymphocytes; 39S ribosomal protein L28, mitochondrial; p15; L28mt; MRP-L28; melanoma antigen p15; melanoma-associated antigen recognized by T lymphocytes; melanoma-associated antigen recognized by T-lymphocytes; melanoma-associated antigen recognised by cytotoxic T lymphocytes; MAAT1; MGC8499;

Gene ID 10573

mRNA Refseq NM_006428

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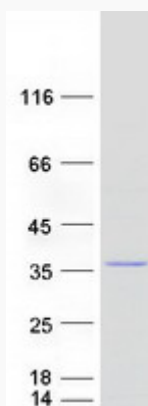
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Protein Refseq NP_006419

MIM 604853

UniProt ID Q13084

SDS-PAGE



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