# Recombinant Human mitochondrial ribosomal protein L28, His-tagged

**Cat. No.** MRPL28-363H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | MRPL28, 56-256aa, Human, His tag, E.coli |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 56-256 a.a. |
| **Description** | MRPL28, also as known as 39S ribosomal protein L28, mitochondrial, is a mitochondrial protein that belongs to the ribosomal protein L28P family. 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. MRPL28 potentially represents an important therapeutic reagent for HLA-A24 (A24) patients as this antigen is recognized by tumor-infiltrating lymphocyte (TIL) 1290, which targets the A24 serotype. This protein is found in a variety of normal tissues including spleen, testis, thymus, liver, kidney, brain, adrenal, lung and retinal tissue. Recombinant human MRPL28 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| **Form** | Liquid. In 20mM Tris-HCl buffer (pH 8.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT |
| **Molecular Mass** | 25.8kDa (222aa) confirmed by MALDI-TOF |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **AA Sequence** | MGSSHHHHHH SSGLVPRGSH MNGQRERVED VPIPIYFPPE SQRGLWGGEG WILGQIYANN DKLSKRLKKV WKPQLFEREF YSEILDKKFT VTVTMRTLDL IDEAYGLDFY ILKTPKEDLC SKFGMDLKRG MLLRLARQDP QLHPEDPERR AAIYDKYKEF AIPEEEAEWV GLTLEEAIEK QRLLEEKDPV PLFKIYVAEL IQQLQQQALS EPAVVQKRAS GQ |
| **Purity** | >95% by SDS - PAGE |
| **Storage** | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| **Concentration** | 1 mg/ml (determined by Bradford assay) |

## GENE INFORMATION

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| **Gene Name** | MRPL28 mitochondrial ribosomal protein L28 [ Homo sapiens ] |
| **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 |
| **Protein Refseq** | NP_006419 |

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| **MIM** | 604853 |
| **UniProt ID** | Q13084 |
| **Chromosome Location** | 16p13.12 |
| **Function** | protein binding; structural constituent of ribosome; |

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