

# Recombinant Human MRPS9 cell lysate

**Cat. No.** MRPS9-1137HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>    | 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. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| <b>Gene Name</b> | MRPS9 mitochondrial ribosomal protein S9 [ Homo sapiens ] |
|------------------|-----------------------------------------------------------|

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|                            |                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | MRPS9                                                                                                                                                     |
| <b>Synonyms</b>            | MRPS9; mitochondrial ribosomal protein S9; 28S ribosomal protein S9, mitochondrial; 28S ribosomal protein S9; mitochondrial; MRP S9; RPMS9; S9mt; MRP-S9; |
| <b>Gene ID</b>             | <a href="#">64965</a>                                                                                                                                     |
| <b>mRNA Refseq</b>         | <a href="#">NM_182640</a>                                                                                                                                 |
| <b>Protein Refseq</b>      | <a href="#">NP_872578</a>                                                                                                                                 |
| <b>MIM</b>                 | <a href="#">611975</a>                                                                                                                                    |
| <b>UniProt ID</b>          | <a href="#">P82933</a>                                                                                                                                    |
| <b>Chromosome Location</b> | 2q12.1                                                                                                                                                    |
| <b>Function</b>            | structural constituent of ribosome;                                                                                                                       |

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