

# Recombinant Human MRPS14 Protein, GST-tagged

**Cat. No.** MRPS14-5602H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Human MRPS14 full-length ORF ( NP_071383.1, 1 a.a. - 128 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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 that belongs to the ribosomal protein S14P family. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 41.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAAFMLGSLLRTEFKQMPSSASGQVRSHYVDWRMWRDVKRRKMAYEYADERLRI<br>NSLRKNTILPKILQDVADEEIAALPRDSCPVRIRNRCVMTSRPRGVKRRWRLSRIVFR<br>HLADHGQLSGIQRATW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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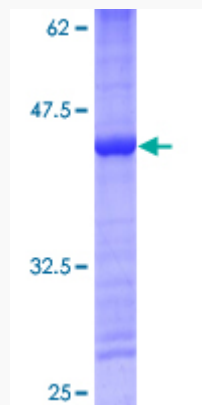
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                            |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                              |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                       |
| <b>Gene Name</b>        | MRPS14 mitochondrial ribosomal protein S14 [ Homo sapiens (human) ]                                                                                                                                                                   |
| <b>Official Symbol</b>  | MRPS14                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | MRPS14; mitochondrial ribosomal protein S14; S14mt; MRP-S14; HSMRPS14; DJ262D12.2; 28S ribosomal protein S14, mitochondrial; mitochondrial 28S ribosomal protein S14; mitochondrial small ribosomal subunit protein uS14m; EC 3.6.5.3 |
| <b>Gene ID</b>          | 63931                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>      | NM_022100                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>   | NP_071383                                                                                                                                                                                                                             |
| <b>MIM</b>              | 611978                                                                                                                                                                                                                                |
| <b>UniProt ID</b>       | O60783                                                                                                                                                                                                                                |

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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