

## Recombinant Human MRPS14 Protein, His-tagged

Cat. No. MRPS14-1946H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human MRPS14 protein, fused to His-tagged at N-terminus, was expressed in E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2010].</p> |
| <b>Form</b>             | 25 mM Tris, pH 8.0, 150 mM NaCl, 10% glycerol, 1% Sarkosyl. Store at -80 Centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 15.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|               |                                                             |
|---------------|-------------------------------------------------------------|
| <b>Purity</b> | > 80% as determined by SDS-PAGE and Coomassie blue staining |
|---------------|-------------------------------------------------------------|

|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>Concentration</b> | >50 ug/mL as determined by microplate BCA method |
|----------------------|--------------------------------------------------|

## GENE INFORMATION

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| <b>Gene Name</b> | MRPS14 mitochondrial ribosomal protein S14 [ Homo sapiens ] |
|------------------|-------------------------------------------------------------|

|                        |        |
|------------------------|--------|
| <b>Official Symbol</b> | MRPS14 |
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|                 |                                      |
|-----------------|--------------------------------------|
| <b>Synonyms</b> | DJ262D12.2; HSMRPS14; MRP-S14; S14mt |
|-----------------|--------------------------------------|

|                |       |
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| <b>Gene ID</b> | 63931 |
|----------------|-------|

|                    |             |
|--------------------|-------------|
| <b>mRNA Refseq</b> | NM_022100.2 |
|--------------------|-------------|

|                       |             |
|-----------------------|-------------|
| <b>Protein Refseq</b> | NP_071383.1 |
|-----------------------|-------------|

|            |        |
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| <b>MIM</b> | 611978 |
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|-------------------|--------|
| <b>UniProt ID</b> | O60783 |
|-------------------|--------|

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