

## Recombinant Human MRPS2 Protein, GST-tagged

**Cat. No.** MRPS2-5608H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MRPS2 full-length ORF ( AAH08017, 1 a.a. - 296 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 S2 family. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 58.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MATSSAALPRILGAGARAPSRWLGLGKATPRPARPSRRTLGSATALMIRESEDSTD<br>FNDKILNEPLKHSDFFNVKELFSVRS�FDARVHLGHKAGCRHRFMEPYIFGSRLDHD<br>IDLEQTATHLQLALNFTAHMAYRKGIILFISNRNRQSSYLIGNMARDCEYAHTRYFRG<br>GMLTNARLLFGPTVRLPDLIIFLHTLNNIFEPHVAVRDAAKMNIPTVGIVDTNCNPCLIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | YPVPGNDDSP LAVHLYCRLFQTAITRAKEKRQQVEALYRLQGQKEPGDQGPAHPP<br>GADMSHSL                                                                                         |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>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>        | MRPS2 mitochondrial ribosomal protein S2 [ Homo sapiens ]                                                                                                    |
| <b>Official Symbol</b>  | MRPS2                                                                                                                                                        |
| <b>Synonyms</b>         | MRPS2; mitochondrial ribosomal protein S2; 28S ribosomal protein S2, mitochondrial;<br>CGI 91; mitochondrial 28S ribosomal protein S2; S2mt; CGI-91; MRP-S2; |
| <b>Gene ID</b>          | 51116                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_016034                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_057118                                                                                                                                                    |
| <b>MIM</b>              | 611971                                                                                                                                                       |

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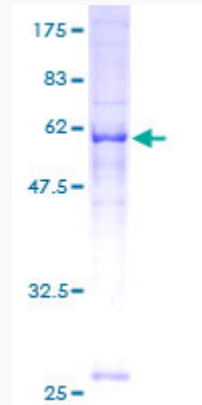
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UniProt ID

Q9Y399

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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