

# Recombinant Full Length Human MRPS22 Protein, GST-tagged

**Cat. No.** MRPS22-6484HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Human MRPS22 full-length ORF ( AAH09296, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 360 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <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 does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromosome Xq. [provided by RefSeq]</p> |
| <b>Molecular Mass</b>   | 65.34 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>      | MAPLGTTVLLWSLLRSSPGVERVCFRARIQPWHGGLLQPLPCSFEMGLPRRRFSSE<br>AAESGSPETKKPTFMDEEVQSILTKMTGLNLQKTFKPAIQELKPPTYKLMTQAQLEE<br>ATRQAVEAAKVRLKMPPVLEERVPIINDVLAEDKILEGTETTKYVFTDISYSIPHRERFI<br>VVREPSGTLRKASWEERDRMIQVYFPKEGRKILTPIIFKEENLRTMYSQDRHVDVLN<br>LCFAQFEPDSTEYIKVHHKTYEDIDKRGKYDLLRSTRYFGGMVWYFVNNKKIDGLLID<br>QIQRD LIDDATNLVQLYHVLHPDGQSAQGAQDQAAEGINLIKVF AKTEAQKGAYIELT<br>LQTYQEALSRHSAAS |
| <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>        | MRPS22 mitochondrial ribosomal protein S22 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b>  | MRPS22                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | MRPS22; mitochondrial ribosomal protein S22; 28S ribosomal protein S22, mitochondrial; C3orf5; GIBT; GK002; MRP S22; S22mt; COXPD5; RPMS22; MRP-S22;                                                                                                                                                                                                                                                |
| <b>Gene ID</b>          | 56945                                                                                                                                                                                                                                                                                                                                                                                               |

|                |                           |
|----------------|---------------------------|
| mRNA Refseq    | <a href="#">NM_020191</a> |
| Protein Refseq | <a href="#">NP_064576</a> |
| MIM            | <a href="#">605810</a>    |
| UniProt ID     | <a href="#">P82650</a>    |

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