# Recombinant Human MRPL10 Protein, GST-tagged

**Cat. No.** MRPL10-5554H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human MRPL10 full-length ORF ( AAH15904, 1 a.a. - 261 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | Wheat Germ |
| **Description** | 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 39S subunit protein. A pseudogene corresponding to this gene is found on chromosome 5q. [provided by RefSeq |
| **Molecular Mass** | 54.45 kDa |
| **AA Sequence** | MAAAVAGMLRGGLLPQAGRLPTLQTVRYGSKAVTRHRRVMHFQRQKLMAVTEYIP PKPAIHPSCLPSPPSPPQEEIGLIRLLRREIAAVFQDNRMIAVCQNVALSAEDKLLMR HQLRKHKILMKIFPNQVLKPFLEDSKYQNLLPLFVGHNMLLVSEEPKVKEMVRILRTV PFLPLLGGCIDDTILSRQGFINYSKLPSLPLVQGELVGGLTCLTAQTHSPLQHQPLQL |

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| | TTLLDQYIREQREKDSVMSANGKPDPDTVPDS |
| **Applications** | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| **Notes** | Best use within three months from the date of receipt of this protein. |
| **Storage** | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| **Storage Buffer** | 50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

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| **Gene Name** | MRPL10 mitochondrial ribosomal protein L10 [ Homo sapiens ] |
| **Official Symbol** | MRPL10 |
| **Synonyms** | MRPL10; mitochondrial ribosomal protein L10; 39S ribosomal protein L10, mitochondrial; 39S ribosomal protein L10; mitochondrial; L10MT; MGC17973; MRP L8; MRP L10; MRPL8; RPML8; L8mt; 39S ribosomal protein L8, mitochondrial; MRP-L8; MRP-L10; |
| **Gene ID** | 124995 |
| **mRNA Refseq** | NM_145255 |
| **Protein Refseq** | NP_660298 |
| **MIM** | 611825 |

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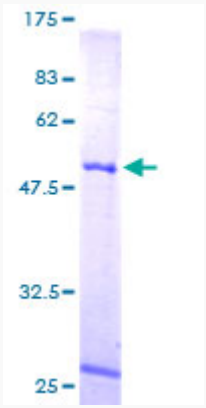
| **UniProt ID** | Q7Z7H8 |
| **Quality Control Testing:** |  <br>12.5% SDS-PAGE Stained with Coomassie Blue. |

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