# Recombinant Full Length Human MRPL41 Protein, GST-tagged

**Cat. No.** MRPL41-6420HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human MRPL41 full-length ORF ( NP_115866.1, 1 a.a. - 137 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 137 amino acids |
| **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 that belongs to the YmL27 ribosomal protein family. [provided by RefSeq |
| **Molecular Mass** | 41.8 kDa |
| **AA Sequence** | MGVLAAAARCLVRGADRMSKWTSKRGPRSFRGRKGRGAKGIGFLTSGWRFVQIKE MVPEFVVPDLTGFKLKPYVSYLAPESEETPLTAAQLFSEAVAPAIEKDFKDGTFDPD NLEKYGFEPTQEGKLFQLYPRNFLR |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **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-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

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| **Gene Name** | MRPL41 mitochondrial ribosomal protein L41 [ Homo sapiens ] |
| **Official Symbol** | MRPL41 |
| **Synonyms** | BMRP; PIG3; MRPL27; RPML27; MRP-L27 |
| **Gene ID** | 64975 |
| **mRNA Refseq** | NM_032477 |
| **Protein Refseq** | NP_115866 |
| **MIM** | 611846 |
| **UniProt ID** | Q8IXM3 |

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