



# SZABO SCANDIC

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## Produktinformation



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Zellkultur & Verbrauchsmaterial



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### MRPL42 (Human) Recombinant Protein (P01)

**Catalog Number:** H00028977-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human MRPL42 full-length ORF (NP\_054769.1, 1 a.a. - 142 a.a.) recombinant protein with GST tag at N-terminal.

**Sequence:**

MAVAAVKQWVMSKRTILKHLFPVQNGALYCVCHKSTYS  
PLPDDYNCNVELALTS DGR TIVCYHPSVDIPYEHTKPIP  
RPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLS  
KMFFTTKHRWYPHGRYHRCRKNLNPPKDR

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 43.1

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 28977

**Gene Symbol:** MRPL42

**Gene Alias:** HSPC204, MRP-L31, MRPL31, MRPS32, PTD007, RPML31

**Gene Summary:** 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 protein identified as belonging to both the 28S and the 39S subunits. Further experiments will be needed to identify the specific subunit localization. Sequence analysis identified three transcript variants that encode two different isoforms. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provided by RefSeq]