

Recombinant Human MRPL40 Protein, GST-tagged

Cat. No. MRPL40-5584H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL40 full-length ORF (BAG53959.1, 1 a.a. - 206 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. Deletions in this gene may contribute to the etiology of velo-cardio-facial syndrome and DiGeorge syndrome. [provided by RefSeq]
Molecular Mass	50.9 kDa
AA Sequence	MTASVLRSISLALRPTSGLLGTWQTQLRETHQRASLLSFWEIPMRSEPLRKKKKVD PKKDQEAKERLKRKIRKLEKATQELIPIEDFITPLKFLDKARERPQVELTFEETERRAL LLKKWSLYKQQRKMERDITIRAMLEAQQEALQLESPKLHAEAIKRDPNLFPFEK

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EGPHYTPPIPNYQPPEGRYNDITKVYTQVEFKR

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
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

Gene Name

MRPL40 mitochondrial ribosomal protein L40 [Homo sapiens]

Official Symbol

MRPL40

Synonyms

MRPL40; mitochondrial ribosomal protein L40; NLVCF, nuclear localization signal deleted in velocardiofacial syndrome; 39S ribosomal protein L40, mitochondrial; MRP L22; L40mt; MRP-L40; up-regulated in metastasis; nuclear localization signal deleted in velocardiofacial syndrome; nuclear localization signal containing protein deleted in velocardiofacial syndrome; nuclear localization signal-containing protein deleted in velocardiofacial syndrome; URIM; NLVCF; MRP-L22; MGC9400; FLJ41774;

Gene ID

64976

mRNA Refseq

NM_003776

Protein Refseq

NP_003767

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MIM	605089
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UniProt ID	Q9NQ50
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