



# Recombinant Bovine 28S ribosomal protein S5, mitochondrial (MRPS5)

<b>Product Code</b>	CSB-MP641606BO
<b>Abbreviation</b>	MRPS5
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q2KID9
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MAAAVRAAGF LPALCGASAG RLWSRQLYLN TFPTASIWAL KAVPSNGPSS SAGARGRCRS THLGPALQTQ CCTPAPGNVT AQQYRSYSFF TKLTADELWK GALAETGAGA RKGRGKRTKR KRRKDLNRGQ IIGEGRRGFL WPGLNAPLMK SGAIQTITQR SKEEQEKVEA DMVQQREEWD RKRKMKVKRE RGWSGNSWGG ISLGPPDPGP NGETYDDFDT RILEVRNVFN MTAKEGRKRS VRVLVAVGNG RGAAGFAIGK ATERADAFRK AKNRAVHYLH YIERYEDHTI YHDISLTFKR THIKMKKQPR GYGLRCHRAI TTICRLIGIK DMYAKVSGSV NMLSLTRGLF QGLSRQETHQ QLADKKS LHV VEFREECGPL PIVVASPQGA LRKDPEPEDE VPDIKLDWDD VKAVQGMKRS VWSGLKRAAT
<b>Source</b>	Mammalian cell
<b>Target Names</b>	MRPS5
<b>Protein Names</b>	Recommended name: 28S ribosomal protein S5, mitochondrial Short name=MRP-S5 Short name= S5mt
<b>Expression Region</b>	1-430
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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 belongs to the ribosomal protein S5P family. Pseudogenes corresponding to this gene are found on chromosomes 4q, 5q, and 18q.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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