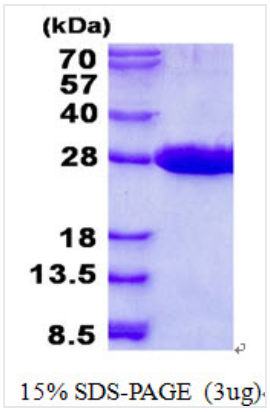
MRRF Recombinant Protein

PRODUCT OVERVIEW

Product Name	MRRF, Recombinant Protein
Full Product Name	MRRF, 56-262aa, Human, His tag, E Coli
Product Gene Name	MRRF recombinant protein
Product Synonym Names	Ribosome-recycling factor mitochondrial isoform 1; Ribosome-recycling factor; mitochondrial isoform 1; MRFF; MTRRF; RRF
Sequence	MGSSHHHHHH SSGLVPRGSH MATKKAKAKG KGQSQTRVNI NAALVEDIIN LEEVNEEMKS VIEALKDNFN KTLNIRTSPG SLDKIAVVTA DGKLALNQIS QISMKSPQLI LVNMASFPEC TAAAIKAIRE SGMNLNPEVE GTLIRVPIPQ VTREHREMLV KLAKQNTNKA KDSLRKVRTN SMNKLKKSKD TVSEDTIRLI EKQISQMADD TVAELDRHLA VKTKELLG
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 2mM DTT
Purity/Purification	> 95% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	25.1 kDa (228aa) confirmed by MALDI-TOF
OMIM	AK291603 mRNA
3D Structure	ModBase 3D Structure for Q96E11
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for MRRF recombinant protein	Epigenomics
Applications Tested/Suitable for MRRF recombinant protein	SDS-PAGE
Related Product Information for MRRF recombinant protein	MRRF binds to the large ribosomal subunit in the cleft that contains the peptidyl transferase center. This protein is responsible for the release of ribosome from messenger RNA at the termination of protein biosynthesis. Also, it may increase the efficiency of translation by recycling ribosome from one round of translation to another. Recombinant human MRRF protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for MRRF recombinant protein	Hirokawa G., et al. (2008) Nucleic Acids Res. 36 (21):6676-87; Pai RD., et al. (2008 J Mol Biol. 376 (5):1334-47.;
Other Notes	Small volumes of MRRF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MRRF purchase	MBS205255 is a recombinant protein targeting MRRF. Also known as MRRF, 56-262aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of MRRF recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRRF. It may not necessarily be applicable to this product.

NCBI GI #	20270317
NCBI GeneID	92399
NCBI Accession #	NP_620132
UniProt Primary Accession #	Q96E11
UniProt Secondary Accession #	Q5RKT1; Q5T7T0; Q5T7T1; Q5T7T2; Q5T7T3; Q5T7T4; Q5T7T5; A8K6D8; A8K6Z4; B7Z4X5; B7Z6P7
UniProt Related Accession #	Q96E11
GenBank Nucleotide #	NM_138777.4
NCBI Official Full Name	ribosome-recycling factor, mitochondrial isoform 1
NCBI Official Synonym Full Names	mitochondrial ribosome recycling factor
NCBI Official Symbol	MRRF
NCBI Official Synonym Symbols	RRF; MRFF; MTRRF
UniProt Protein Name	Ribosome-recycling factor, mitochondrial
UniProt Synonym Protein Names	Ribosome-releasing factor, mitochondrial
UniProt Gene Name	MRRF
UniProt Synonym Gene Names	RRF
NCBI Protein Information	ribosome-recycling factor, mitochondrial
NCBI Summary for MRRF	This gene encodes a ribosome recycling factor, which is a component of the mitochondrial translational machinery. The encoded protein, along with mitochondrial elongation factor 2, functions in ribosomal recycling at the termination of mitochondrial translation by mediating the disassembly of ribosomes from messenger RNA. A pseudogene of this gene has been identified on chromosome X. [provided by RefSeq, Oct 2016]
UniProt Comments for MRRF	Responsible for the release of ribosomes from messenger RNA at the termination of protein biosynthesis. May increase the efficiency of translation by recycling ribosomes from one round of translation to another ().
Research Articles on MRRF	**1.** Observational study of gene-disease association. (HuGE Navigator)
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