

Recombinant Human MARS, His-tagged

Cat. No. MARS-29127TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 270-895 of Human MARS with an N terminal His tag. Predicted mwt: 72 kDa.
Species	Human
Source	E.coli
ProteinLength	270-895 a.a.
Description	This gene encodes a member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. The encoded protein is a component of the multi-tRNA synthetase complex and catalyzes the ligation of methionine to tRNA molecules.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 110 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SALPYVNNVPHLGNIGCVLSADVFARYSRLRQWNTLYLC GTDEYGTATETKALEEG LTPQEICDKYHIIHADIYRWF NISFDIFGRTTTTQQTKITQDIFQQLLKRGFVLQDTVE

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QLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDKCGK LINA VELKKPQCKVCRS
 CPVVQSSQHLFLDLPKLEKRLEE WLGRTLPGSDWTPNAQFITRSWLRDGLKPRCIT
 RDLKW GTPVPLEGFEDKVFYVWF DATIGYLSITANYTDQWERW WKNPEQVDLYQ
 FMAKDNVPFHSLVFPC SALGAEDNYTL VSHLIATEYLN YEDGKFSKSRGVGVFGDM
 AQDTGIPAD IWRFYLLYIRPEGQDSAFSWTDLLLKNNSELLN NLGNFIN RAGMFVSK
 FFGGYVPEMVLTPDDQRLLAHVTLELQHYH QLLEKVRIRDALRSILTISRHGNQYIQV
 NEPWKRIKGS EADRQRAGTVTGLAVNIAALLSVMLQPYMPTVSATIQA QLQLPPPA
 CSILLTNFLCTLPAGHQIGTVSPLFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVT
 TAKPQQIQALMD EVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAV AEGKPP
 EAPK

GENE INFORMATION

Gene Name MARS methionyl-tRNA synthetase [Homo sapiens]

Official Symbol MARS

Synonyms MARS; methionyl-tRNA synthetase; methionyl-tRNA synthetase, cytoplasmic; methionine tRNA ligase 1; cytoplasmic; MetRS;

Gene ID 4141

mRNA Refseq NM_004990

Protein Refseq NP_004981

MIM 156560

Uniprot ID P56192

Chromosome 12q13

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Location	
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem;
Function	ATP binding; ligase activity; methionine-tRNA ligase activity; nucleotide binding; tRNA binding;

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