

Recombinant Human MARS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MARS-4595H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MARS MS Standard C13 and N15-labeled recombinant protein (NP_004981) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	101.1 kDa
AA Sequence	MRLFVSDGVPGLPVLAAAGRARGRAEVLSTVGPEDCVVPFLTRPKVPVLQLDSG NYLFSTSAICRYFFLLSGWEQDDL TNQWLEWEATELQPALSAALYYLVVQGKKGED VLGSVRRAL THIDHSLSRQNC PFLAGETESLADIVLWGALYPLLQDPAYLPEELSALH SWFQTLSTQEPCQRAAETVLKQQGV LALRPYLQKQPQSPAEGRAVTNEPEEEEE ATLSEEEIAMAVTAWEGLES LPPLRPQQNPVLPVAGERNVLITSALPYVNNVPHLG NIIGCVLSADVFARYSRLRQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHA DIYRWFNISFDIFGR TTTTPQQTKITQDIFQQLKRGFVLQDTVEQLRCEHCARFLADR FVEGVCPFCGYEEARGDQCDKCGKLINAVELKKPQCKVCRSCPVVQSSQHLFLDLP KLEKRLEEWLGRTLPGSDWTPNAQFITRSWLRDGLKPRCITRDLKWGTPVPLEGFE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DKVFYVWFDATIGYLSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFHSLVFPC
 SALGAEDNYTLVSHLIATEYLYNEDGKFSKSRGVGVFGDMAQDTGIPADIWRFYLLYI
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 GTVTGLAVNIAALLSVMLQPYMPTVSATIQAQLQLPPPACSILLTNFLCTLPAGHQIGT
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 NIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPEAPKGKKKKTRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MARS methionyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	MARS
Synonyms	MARS; methionyl-tRNA synthetase; methionine--tRNA ligase, cytoplasmic; methionine tRNA ligase 1; cytoplasmic; MetRS; cytosolic methionyl-tRNA synthetase; methionine tRNA ligase 1, cytoplasmic; MRS; METRS; MTRNS; FLJ35667;
Gene ID	4141

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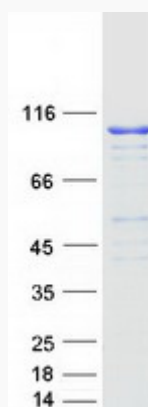
mRNA Refseq [NM_004990](#)

Protein Refseq [NP_004981](#)

MIM [156560](#)

UniProt ID [P56192](#)

SDS-PAGE



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