

Recombinant Full Length Human MARS1 Protein, C-Flag-tagged

Cat. No. MARS1-582HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	100.9 kDa
AA Sequence	MRLFVSDGVPGLPVLAAAGRARGRAEVLISVGPEDCVVPFLTRPKVPVLQLDSG NYLFSTSAICRYFF LLSGWEQDDL TNQWLEWEATELQPALSAALYYLVVQGKKGED VLGSVRRAL THIDHSLSRQNC PFLAGET ESLADIVLWGALYPLLQDPAYLPEELSAL HSWFQTLSTQEPCQRAAETVLKQQGV LALRPYLQKQPQSP AEGRAVTNEPEEEEE LATLSEEEIAMAVTAWEKGLESLPPLRPQQNPVLPVAGERNVLITSALPYVNNVPH L GNIIGCVLSADVFARYSRLRQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHII HADIYRWFNIS FDIFGRTTTTPQQTKITQDIFQQLKRGFVLQDTVEQLRCEHCARFLA DRFVEGVCPFCGYEEARGDQCDK CGKLINAVELKKPQCKVCRSCPVVQSSQHLFL

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DLPKLEKRLEEVLGRTLPGSDWTPNAQFITRSWLRDGL KPRCITRDLKWGTPVPLE
 GFEDKVFYVWFDATIGYLSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFH SLV
 FPCSALGAEDNYTLVSHLATEYLNIEDGKFSKSRGVGVFGDMAQDTGIPADIWRFY
 LLYIRPEGQD SAFSWTDLLLKNSELLNNLGNFINRAGMFVSKFFGGYVPEMVLTPD
 DQRLLAHVTLLELQHYHQLLEKVR IRDALRSILTISRHGNQYIQVNEPWKRIKGSEADR
 QRAGTVTGLAVNIAALLSVMLQPYMPTVSATIQAQ LQLPPPACSILLTNFLCTLPAGH
 QIGTVSPLFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVTTAKPQ
 QIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPEAPKGK
 KKKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Aminoacyl-tRNA biosynthesis, Selenoamino acid metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name [MARS1 methionyl-tRNA synthetase 1 \[Homo sapiens \(human\) \]](#)

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Official Symbol	MARS1
Synonyms	MRS; ILLD; MARS; TTD9; CMT2U; ILFS2; METRS; MTRNS; SPG70
Gene ID	4141
mRNA Refseq	NM_004990.4
Protein Refseq	NP_004981.2
MIM	156560
UniProt ID	P56192



Coomassie blue staining of purified MARS protein.