

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human MARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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.                                                                                                                                                                          |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 100.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MRLFVSDGVPGLPVLAAAGRARGRAEVLISVGPEDCVVPFLTRPKVPVLQLDSG<br>NYLFSTSAICRYFF LLSGWEQDDL TNQWLEWEATELQPALSAALYYLVVQGKKGED<br>VLGSVRRAL THIDHSLSRQNC PFLAGET ESLADIVLWGALYPLLQDPAYLPEELSAL<br>HSWFQTLSTQEPCQRAAETVLKQQGV LALRPYLQKQPQSP AEGRAVTNEPEEEEE<br>LATLSEEEIAMAVTAWEGLES LPLRPQQNPVLPVAGERNVLITSALPYVNNVPH L<br>GNIIGCVLSADVFARYSRLRQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHII<br>HADIYRWFNIS FDIFGR TTTTPQQTKITQDIFQQLKRGFVLQDTVEQLRCEHCARFLA<br>DRFVEGVCPFCGYEEARGDQCDK CGKLINAVELKKPQCKVCRSCP VVQSSQHLFL |

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DLPKLEKRLEEVLGRTLPGSDWTPNAQFITRSWLRDGL KPRCITRDLKWGTPVPLE  
 GFEDKVFYVWFDATIGYLSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFH SLV  
 FPCSALGAEDNYTLVSHLIATEYLNIEDGKFSKSRGVGVFGDMAQDTGIPADIWRFY  
 LLYIRPEGQD SAFSWTDLLLKNNSELLNNLGNFINRAGMFVSKFFGGYVPEMVLTPD  
 DQRLLAHVTLELQHYHQLLEKVR IRDALRSILTISRHGNQYIQVNEPWKRIKGSEADR  
 QRAGTVTGLAVNIAALLSVMLQPYMPTVSATIQAQ LQLPPPACSILLTNFLCTLPAGH  
 QIGTVSPLFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVTTAKPQ  
 QIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPEAPKGK  
 KKKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

## GENE INFORMATION

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

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|                        |                                                          |
|------------------------|----------------------------------------------------------|
| <b>Official Symbol</b> | <a href="#">MARS1</a>                                    |
| <b>Synonyms</b>        | MRS; ILLD; MARS; TTD9; CMT2U; ILFS2; METRS; MTRNS; SPG70 |
| <b>Gene ID</b>         | <a href="#">4141</a>                                     |
| <b>mRNA Refseq</b>     | <a href="#">NM_004990.4</a>                              |
| <b>Protein Refseq</b>  | <a href="#">NP_004981.2</a>                              |
| <b>MIM</b>             | <a href="#">156560</a>                                   |
| <b>UniProt ID</b>      | <a href="#">P56192</a>                                   |



Coomassie blue staining of purified MARS protein.