

Product datasheet for **TP302932M**

Methionyl tRNA synthetase (MARS) (NM_004990) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human methionyl-tRNA synthetase (MARS), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202932 protein sequence Red =Cloning site Green =Tags(s)

MRLFVSDGVPGLPVLAAAGRARGRAEVLSTVGPEDCVVPFLTRPKVPVLQLDSGNYLFSTSAICRYFF
LLSGWEQDDL TNQWLEWEATELQPALSAALYYLVVQGGKEDVLGSRRAL THIDHSLSRQNC PFLAGET
ESLADIVLWGALYPLLQDPAYLPEELSALHSWFQTLSTQEP CQRAAETVLKQQGVLALRPYLQKQPQSP
AEGRAVTNEPEEEELATLSEEEIAMAVTAW EKGLLEPPLRPQ QNPVLPVAGERNV LITSALPYVNNVPH
LGNII GCVLSADVFARYSRLRQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHADIYRWFNIS
FDIFGR TTPQQTKITQDIFQQLLKRGFVLQDTVEQLRCEH CARFLADRFVEGVCPFCGYEEARGDQCDK
CGKLINAVELKKPQCKVCRSCP VVQSSQHLFLDLPKLEKRL EEWLGR TLPGSDWTPNAQFITRSWLRDGL
KPRCITRDLKWGTPVPLEGFEDKVFYWF DATIGYLSITANYTDQWERWWKNPEQVDLYQFMAKDNV PFH
SLVFPCSALGAEDNYTLVSHLIATEYLN YEDGKFSKSRGVGVFGDMAQDTGIPADIWRFYLLYIRPEGQD
SAFSWTDLLLKNNSELLN LGNFINRAGM FVSKFFGGYVPEMVLTPDDQRLLAHVTLELQHYHQLLEKVR
IRDALRSILTISRHGNQYIQVNEP WKRKIGSEADRQRAGTVTGLAVNIAALLSVM LQPYMPTVSATIQAQ
LQLPPPAC SILLTNFLCTLPAGHQIGTVSPLFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVTTAKPQ
QIQALMDEVTKQGNIVRELKAQKADKNEVA AEVAKLLDLKKQLAVAEGKPPEAPKGGKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	100.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_004981](#)

Locus ID: 4141

UniProt ID: [P56192](#)

RefSeq Size: 2932

Cytogenetics: 12q13.3

RefSeq ORF: 2700

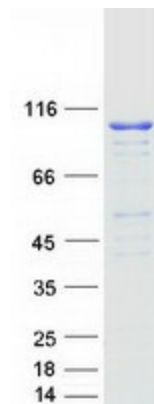
Synonyms: CMT2U; ILFS2; ILLD; MARS; METRS; MRS; MTRNS; SPG70

Summary: 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. [provided by RefSeq, Jan 2011]

Protein Families: Druggable Genome

Protein Pathways: Aminoacyl-tRNA biosynthesis, Selenoamino acid metabolism

Product images:



Coomassie blue staining of purified MARS protein (Cat# [TP302932]). The protein was produced from HEK293T cells transfected with MARS cDNA clone (Cat# [RC202932]) using MegaTran 2.0 (Cat# [TT210002]).