

Product datasheet for TP511112

Mars1 (NM_001003913) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse methionine-tRNA synthetase (Mars), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211112 protein sequence Red=Cloning site Green=Tags(s)

MRLFVSEGSPGSLPVLAAAARARGRAELLISTVGPEECVFPFLTRPKVPVLQLDSGNYLFSASAICRYFF
LLCGWEQDDL TNQWLEWEATELQPVLSAALHCLVWQKKGEDILGPLRRVLTHIDHSLSRQNC PFLAGDT
ESLADIVLWGALYPLLQDPAYLPEELGALQSWFQTLSTQEP CQRAAETVLKQQGV LALRLYLQKQPQP
PPPEGRTVSNELEEEELATLSEEDIVTAVAAWEKGLLESLPPLKLQ QHPVLPVPGERNVLITSALPYVNNV
PHLGNII GCVLSADVFARYCRLRQWNTLYLCGTDEYGTATETKAMEEGLTPREICDKYHAIHADIYRWFG
ISFDTFGR TTPQQTKITQDIFQRLLRTRGFVLRD TVEQLRCERCARFLADR FVEGVCPFCGYEEARGDQC
DRCGKLINAIELKKPQCKICRSCP VVRSSQHFLFLDLPKLEKRL EDWLGKTPVGS DWTPNARFIIRSWLRD
GLKPRCITRDLKWGTPVPLEGFEDKVFYVWF DATIGYVSITANYTDQWEKWWKNPEQVDLYQFMAKDNVP
FHGLVFP CSVLGAEDNYTLVKHIIATEYLN YEDGKFSKSRGIGVFGDM AKDTGIPADIWRFYLLYIRPEG
QDSAFSWTDLLIKNNS ELLNNGNFINRAGM FVSKFFGGCVPEMALTPDDRRLVAHVSWELQHYHQLLEK
VRIRDALRSILTISR HGNQYIQVNEPWKRIKGGEMDRQRAGTVTGM AVNMAALLSVMLQP YMPPTSSTIQ
TQLQLPPAACRILATSFICTLPAGHRIGTVSPLFQKLENDQIENLRQRFGGGQAKGSPKPAAVEAVTAAG
SQHIQTLTDEVTKQGNVRELKAQKADKNQVAAEVAKLLDLKKQLALAE GKPIETPKGK KKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	101.4 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
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C after receiving vials.
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_001003913
Locus ID:	216443
UniProt ID:	Q68FL6
RefSeq Size:	2948
Cytogenetics:	10 D3
RefSeq ORF:	2709
Synonyms:	M; Mars; Met; Metrs; Mtrns
Summary:	<p>The encoded protein belongs to the class I family of tRNA synthetases, a class of enzymes that charge tRNAs with their cognate amino acids. The related human gene product is essential for the translation initiation of mRNAs. This gene has an overlapping 3' UTR tail-to-tail arrangement with an adjacent gene on the opposite strand that encodes an inhibitor of the CCAAT/enhancer-binding protein's DNA binding activity. This arrangement, conserved in human and mouse, may be involved in mRNA stability and possible functional and regulatory interaction of these adjacent overlapping genes. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2010]</p>