

Product datasheet for **MC222552**

Mars1 (NM_001171582) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mars1 (NM_001171582) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mars1
Synonyms:	M; Mars; Met; Metrs; Mtrns
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222552 representing NM_001171582
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGACTGTTCTGTGAGCGAGGGTTCCCGGGGAGCCTGCCCGTCTGGTGCAGCCGCGAGGGCCCGGG
 GTCGGGGCGGAGCTGCTCATCAGCACCGTAGGCCCGAAGAGTGTGTGGTACCATTCTTACCCGGCCTAA
 GGTCCCTGTCTTGCAGCTGGATAGTGGCAACTACCTCTTCTCTGCTAGTGAATCTGCCGATATTTTTTT
 CTGTTATGTGGCTGGGAACAAGATGATCTACCAACCAGTGGCTGGAATGGGAGGCAACAGAAGTGCAGC
 CAGTTCTGTCTGCTGCCCTACACTGTCTAGTGGTTCAAGGCAAGAAAGGGGAAGATATACTTGGCCCACT
 TCGGAGAGTCTGACTCACATTGATCACAGCTTGGTCTGCTCAAACTGTCCTTTCTGGCTGGGGACACA
 GAATCTCTAGCTGACATTGTTTTGTGGGAGCACTGTATCCTTTACTGCAAGACCCAGCTTACCTCCCTG
 AGGAGTTGGTGCCCTGCAAAGTTGGTCCAGACACTGAGTACCCAGGAACCGTGTGAGCGAGCTGCAGA
 GACGGTGTAAAACAGCAGGGTGTCTGGCACTTCGTCTGTACCTCCAGAAACAGCCACAGCCTCAGCCC
 CCGCCTCCTGAGGGGAGAACTGTGAGCAACGAGCTGGAGGAAGAGGAAGTGGCTACCTTGTCTGAGGAGG
 ACATCGTTACAGCTGTTGCCGCTGGGAGAAGGGTCTGGAAGCCTGCCTCCGCTAAAGCTCCAGCAGCA
 TCCAGTGTTCCTGTGCCTGGAGAGAGGAATGTTCTCATCACCAGTGCCTCCCTATGTCAACAATGTC
 CCCACCTTGGAAACATCATTGGCTGTGTGCTCAGTGTGATGCTTTGCAAGGTATTGTGCGCTTCGCC
 AGTGGAATACCTCTATCTGTGTGGTACAGATGAGTATGGTACTGCGACAGAGACCAAGGCCATGGAGGA
 GGGCCTAACCCACGGGAAATCTGTGACAAGTACCATGCCATCCATGTGACATCTACCGCTGGTTCCGGC
 ATATCGTTCGATACTTTCCGGCGCACTACCCTCCTCAGCAGACCAAAATCACCCAGGACATCTCCAGA
 GGTTGCTGACCCGGGGTTTGTGCTGCGAGATACTGTGGAGCAGCTTCGGTGTGAGCGGTTGACCGTTT
 CCTGGCTGACCGCTTTGTGGAGGGTGTGTGCCCTTCTGTGGCTATGAAGAGGCCCGAGGTGACCGTGT
 GACAGGTGTGGCAAGCTCATCAATGCCATTGAGCTCAAGAAACCACAGTGCAAAATCTGCCGCTCCTGCC
 CTGTGGTGTGAGTCTCACAGCACCTGTTCTAGACTTGCCTAAGTTGGAAAAGCGTCTGGAGGACTGGTT
 GGGGAAGACAGTGCCTGGCAGTACTGGACACCAATGCCAGGTTTATTACGTTTCTGGCTTCGAGAT
 GGCCTCAAGCCACGATGCATCACCAGAGACCTCAAATGGGGAACGCTGTGCCCTTGAAGGTTTTGAGG
 ACAAGGTATTTACGCTGGTTGATGCTACTATTGGCTACGTGTCCATCACAGCCAACACACAGACCA
 ATGGGAGAAATGGTGAAGAACCAGAACAAGTGGACCTTACCAGTTTATGGCCAAAGACAATGTTCCC
 TTCATGGCTTGGTCTTCCGTGTTGAGTCTAGGAGCTGAGGACAACACACCTGGTCAAGCAGATCA
 TTGCTACAGAGTACCTGAACTATGAGGATGGGAAATCTCTAAGAGCCGGGGCATAGGAGTGTGGAGA
 CATGGCCAAAGGATACAGGAATCCCTGCTGACATCTGGCGATTCTATCTGTATACATTCCGCTGAGGGC
 CAGGACAGTGCCTTCTCCTGGACAGACTTGTGATTAATAAATACTCTGAGCTGCTCAACAACCTGGGCA
 ACTTCAACAAGAGCTGGCATGTTGTTTCTAAGTTTTTGGCGGTTGTGTGCCTGAGATGGCGCTAAC
 CCCTGATGACAGACGCCTGGTGGCCATGTCTCTTGGAACTCCAGCACTATCACCAGCTGTTGGAAAAG
 GTTCGGATCCGGGATGCCTTGGCAGTATCCTCACCATATCTCGCCATGGCAACCAATACATTCAAGTGA
 ATGAGCCCTGGAAACGGATTAAGGTGGTGAAGTGGACAGGACAGCGGGCAGGCACAGTGCAGGCATGGC
 AGTGAACATGGCTGCCTTGTCTGTCTGTCATGCTGCAGCCATACATGCCACAGTCACTACCATCCAG
 ACCCAGCTGCAGCTCCCACCTGCAGCCTGCCGCATCCTTGCCACAAGCTTCATTTGTACCTTGGCAGCAG
 GCCACCGAATTGGCACAGTCACTCTTTGTTCCAAAACTGGAATAAGCAGATTGAAAATTTGAGGCA
 GCGCTTTGGAGGGGGTCACTAGAAAGTCTTGGAGTTAAAGGCTAAAGGCTCCCCAAGCCAGCAGCT
 GTGGAGGCAAGTACAGCAGCAGGCTCGCAGCACATACAAACGCTGACGGATGAGGTGACCAAGCAGGGCA
 ACGTCTCGGGAACTGAAAGCACAGAAGGACAGACAAGAACCAGGTTGCTGCAGAGGTGGCTAAACTCTT
 GGATCTAAAGAAACAGTTGGCTTTGGCTGAGGGGAAACCCATTGAACTCCTAAAGGCAAGAAGAAAAAG
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001171582
Insert Size:	2733 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001171582.1 , NP_001165053.1
RefSeq Size:	2972 bp
RefSeq ORF:	2733 bp
Locus ID:	216443
UniProt ID:	Q68FL6
Cytogenetics:	10 D3
Gene 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> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>