

Product datasheet for **MC222485**

Mars1 (NM_001003913) Mouse Untagged Clone

Product data:

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|---------------------------|-------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Mars1 (NM_001003913) 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: >MC222485 representing NM_001003913
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGACTGTTCTGTGAGCGAGGGTTCGCCGGGAGCCTGCCCGTCTGGTGCAGCCGCGAGGGCCCGGG
 GTCGGGCGGAGCTGCTCATCAGCACCGTAGGCCCGAAGAGTGTGTGGTACCATTCTTACCGGCCTAA
 GGTCCCTGTCTTGCAGCTGGATAGTGGCAACTACCTCTTCTCTGCTAGTGAATCTGCCGATATTTTTTT
 CTGTTATGTGGCTGGAAACAAGATGATCTACCAACCAGTGGCTGGAATGGGAGGCAACAGAAGTGCAGC
 CAGTTCTGTCTGCTGCCCTACACTGTCTAGTGGTCAAGGCAAGAAAGGGGAAGATATACTTGGCCCACT
 TCGGAGAGTCTGACTCACATTGATCACAGCTTGGTCTGAGTCTGCAAACTGTCCTTTCTGGCTGGGGACACA
 GAATCTCTAGCTGACATTGTTTTGTGGGAGCACTGTATCCTTTACTGCAAGACCAGCTTACCTCCCTG
 AGGAGTTGGTGCCCTGCAAAGTTGGTCCAGACACTGAGTACCCAGGAACCGTGTGAGCGAGCTGCAGA
 GACGGTGTAAAACAGCAGGGTGTCTGGCACTTCGTCTGTACCTCCAGAAACAGCCACAGCCTCAGCCC
 CCGCCTCCTGAGGGGAGAACTGTGAGCAACGAGCTGGAGGAAGAGGAAGTGGCTACCTTGTCTGAGGAGG
 ACATCGTTACAGCTGTTGCCGCTGGGAGAAGGGTCTGGAAGCCTGCCTCCGCTAAAGCTCCAGCAGCA
 TCCAGTGTTCCTGTGCCTGGAGAGAGGAATGTTCTCATCACCAGTGCCTCCCTATGTCAACAATGTC
 CCCACCTTGAAACATCATTGGCTGTGTGCTCAGTGTGATGTCTTTGCAAGGTATTGTGCGCTTCGCC
 AGTGAATACCCTCTATCTGTGTGGTACAGATGAGTATGGTACTGCGACAGAGACCAAGGCCATGGAGGA
 GGGCCTAACCCACGGGAAATCTGTGACAAGTACCATGCCATCCATGTGACATCTACCGCTGGTTCCGC
 ATATCGTTGATACTTTTCGGGCGCACTACCCTCCTCAGCAGACCAAAATCACCCAGGACATCTCCAGA
 GTTGTGACCCGGGGTTTGTGCTGCGAGATACTGTGGAGCAGCTTCGGTGTGAGCGGTTGACCGTTTT
 CCTGGCTGACCGCTTTGTGGAGGTGTGTGTCCCTTCTGTGGCTATGAAGAGGCCCGAGGTGACCGTGT
 GACAGGTGTGGCAAGCTCATCAATGCCATTGAGCTCAAGAAACCACAGTGCAAAATCTGCCGCTCCTGCC
 CTGTGGTGTGAGTCTCACAGCACCTGTTCTAGACTTGCCTAAGTTGAAAAGCGTCTGGAGGACTGGTT
 GGGGAAGACAGTGCCTGGCAGTACTGGACACCAATGCCAGGTTTATTACGTTTCTGGCTTCGAGAT
 GGCCTCAAGCCACGATGCATCACCAGAGACCTCAAATGGGGAACGCTGTGCCCTTGAAGGTTTTGAGG
 ACAAGGTATTTACGCTGGTTGATGCTACTATTGGCTACGTGTCCATCACAGCCAACACACAGACCA
 ATGGGAGAAATGGTGAAGAACCAGAACAAGTGGACCTTACCAGTTTATGGCCAAAGACAATGTTCCC
 TTCATGGCTTGGTCTTCCGTGTTGAGTCTAGGAGCTGAGGACAACACACCTGGTCAAGCAGATCA
 TTGCTACAGAGTACCTGAACTATGAGGATGGGAAATCTCTAAGAGCCGGGGCATAGGAGTGTGGAGA
 CATGGCCAAAGGATACAGGAATCCCTGCTGACATCTGGCGATTCTATCTGCTATACATTCCGCCCTGAGGGC
 CAGGACAGTGCCTTCTCCTGGACAGACTTGTGATTAATAAATCTGAGCTGCTCAACAACCTGGGCA
 ACTTATCAACAGAGCTGGCATGTTGTTTCTAAGTTTTTTGGCGGTTGTGTGCCTGAGATGGCGCTAAC
 CCCTGATGACAGACGCTGGTGGCCATGTCTCTTGGAACTCCAGCACTATCACCAGCTGTTGGAAAAG
 GTTCGGATCCGGGATGCCTTGCAGATCCTCACCATATCTCGCCATGGCAACCAATACATTCAAGTGA
 ATGAGCCCTGAAACGGATTAAGGTGGTGAAGTGGACAGGACAGCGGGCAGGCACAGTGCAGGCATGCC
 AGTGAACATGGCTGCCTTGTCTGTCTGTCATGCTGCAGCCATACATGCCACAGTCACTACCATCCAG
 ACCCAGCTGCAGTCCCACCTGCAGCCTGCCGATCCTTGCCACAAGCTTCAATTTGTACCTTGCAGCAG
 GCCACCGAATTGGCACAGTCACTCTTTGTTCCAAAAACTGAAAATGACCAGATTGAAAATTTGAGGCA
 GCGCTTTGGAGGGGTCAGGCTAAAGGCTCCCCAAGCCAGCAGCTGTGGAGGAGTTACAGCAGCAGGC
 TCGCAGCACATACAAACGCTGACGGATGAGGTGACCAAGCAGGGCAACGTCGTCCGGAACTGAAAGCAC
 AGAAGGCAGACAAGAACCAGGTTGCTGCAGAGGTGGCTAAACTCTTGGATCTAAGAAACAGTTGGCTTT
 GGCTGAGGGGAAACCCATTGAAACTCCTAAAGGCAAGAAGAAAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_001003913

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| Insert Size: | 2709 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: | <u>NM_001003913.2</u> , <u>NP_001003913.1</u> |
| RefSeq Size: | 2948 bp |
| RefSeq ORF: | 2709 bp |
| Locus ID: | 216443 |
| UniProt ID: | <u>Q68FL6</u> |
| 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 (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The encoded protein (isoform 2) is shorter, compared to isoform 1.</p> <p>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> |