

## Product datasheet for **MC219335**

### Mars2 (NM\_175439) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mars2 (NM_175439) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mars2
Synonyms:	C730026E21Rik; MetRS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219335 representing NM\_175439  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCGCGCAGTGTGCTCGCTGGGTGTTGACGCGCACCCGGTTCGGCCGCGGTGTCGCCGCTACGGTT  
 CGTGCTCGCCGAGCGCTAGTGGCGACGCCGGGAAGCGCGGCCTACTTCACCACACCTATCTTCTACGT  
 GAACGCCGCGCCGCACATCGGGCACCTGTACTCGGCGCTACTGGCCGACGCCCTGTGCCGCCACCGTCTGT  
 CTCGAGTTCCCGGCTCTGCGTCCACGCGGTTTTCCACCGGCACGGATGAGCACGGCCTGAAGATCCAGC  
 AGGCGGCAGCCACCGCCGGCTTGGCCCCGATCGAGCTGTGCGATCGAGTGTCTGCCAGTTTTTGCAGCT  
 TTTCCGGGAGGCTGACATCTCTCCACGGACTTCATCCGCACCACGGAGGCTCGGCACCGAGTAGCGGTG  
 CAGCATTTCTGGGGTGTGCTGGAGGCCCGGGTCTGCTTACAAAGGGATCTATGAAGGGTGGTATTGTG  
 CCTCGGATGAGTCTTCTGCCGAGGCCAAGGTTACTCGGCAGGTGGGTCGGTCCGGGGATCCCTGTCC  
 CGTGTCTCTCGAGAGCGGACATCTGTCTCCTGGACGAAGGAAGAAAATTACATTTTCAAGCTTTCTCAG  
 TTTGAGAAACCACTCCAGCGGTGGCTTGGAAACAATCCTCAGGCAATCACACCGGAACCGTTCACCAGG  
 CAGTTCTTCAGTGGCTGGAGGAGGAGTGCCTGACTTGTCCGTTTCTCGAAGGAGTAGCCATCTGCACTG  
 GGGCATACCAGTTCGCGGGGACGACTCGCAGACCATCTACGTGTGGCTGGATGCCCTGGTCAACTACCTC  
 ACTGTAGTTGGCTACCCAGATGCAGATTTCAAGTCTTGGTGGCCAGCCACCTCTCATATCATAGGTAAGG  
 ACATTTCTCAAATTTATGCTATTTATTGGCCTGCCCTTCTCCTAGGGGCAGGATTGAGGCCACCACATCG  
 CATCTATGTCCACTCGCACTGGACGGTGAAGTGGCCAAAAATGTCCAAAAGCTTGGGCAACGTGGTGGAT  
 CCCAGGACTTGCCTTATGCTACTACTGTGGATGGCTTCGCTACTTTCTCCTTCGGCAGGGCGTTCCCA  
 ATTGGGACTGCGATTACTATGATGAAAAGTGGTTAAATTGCTGGACTCCGAGCTGGCAGATGCCTTAGG  
 AGGGCTTTTAAACCGGTGCACTGCCTACAGAATAAATCCTTCTGGAACCTACCCATCTTTCTGTGCTGCC  
 TGTTTCCCAAGTGAAGCCAGGTTAACGGGGCCGTGAGTTCGTGTGACAGGAGCAAGACTATGCGCTGTAA  
 CTGCACTGGCCACTTTACCCAACTGGTAGCGGCTATTATAATGACTTTGAGATCTATAAGGCTCTGGA  
 GGCGGTATCCAGCTGTGTTGCGCAAACTAATGGTTTCGTCCAAAGGCACGCACCATGGAAATGAACTGG  
 GAGAGCCCTGAGGATGCTCCCTGGCTGGTACCGTGTTCACGTAGCCTTGGAGTCTTGCAGTGTGTTG  
 GAACTTTGCTTACGCTGTTACTCCAACTTAGCAGATAAACTGCTGTCAAGACTGGGAGTCTCTACCAC  
 AGAGAGAGGCTTGGAGAGCTTACTTCTACCTCGATTCTATGGACACCCATGCCCTTTGAGGGGAGA  
 AAGTTGGGACCTGACACTGGGCTTTGTTTCTAGACTGGACCAATCTAGGACTCGGCTAGTGAAAGCCC  
 ACAGGACCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_175439
- Insert Size:** 1761 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:**

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\\_175439.3](#), [NP\\_780648.1](#)

**RefSeq Size:** 2882 bp

**RefSeq ORF:** 1761 bp

**Locus ID:** 212679

**UniProt ID:** [Q499X9](#)

**Cytogenetics:** 1 C1.2