

Product datasheet for **MR209149**

Mars2 (NM_175439) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Mars2
Synonyms:	C730026E21Rik; MetRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209149 representing NM_175439
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTCGGCGAGTGTGCTCGCTGGGTGTTACGCGCACCCGGTTCGGCCGCGGCTGTCGCCGCTACGGTT
 CGTGCTCGCCGAGCGCTAGTGGCGACGCCGGGAAGCGCGGCCTACTTCACCACACCTATCTTCTACGT
 GAACGCCGCGCCGACATCGGGCACCTGTACTCGGCGCTACTGGCCGACGCCCTGTGCCGCCACCGTCGT
 CTCCGAGTTCGCGCTGCGTCCACGCGGTTTCCACCGGCACGGATGAGCACGGCCTGAAGATCCAGC
 AGGCGGCAGCCACCGCGGCTTGGCCCCGATCGAGCTGTGCGATCGAGTGTCTGCCAGTTCCTGAGCT
 TTTCCGGGAGGCTGACATCTCTTCCACGGAATTCATCCGCACACGGAGGCTCGGCACCGAGTAGCGGTG
 CAGCATTTCTGGGGTGTGCTGGAGGCCGCGGTCTGCTTTACAAAGGGATCTATGAAGGGTGGTATTGTG
 CCTCGGATGAGTGCTTCTTCCGAGGCAAGGTTACTCGGAGGTGGTCCGTCCGGGGATCCCTGTCC
 CGTGTCTCTGAGAGCGGACATCTGTCTCTCGACGAAGGAAGAAATTACATTTTCAAGCTTTCTCAG
 TTTTCGAGAACCCTCCAGCGGTGGCTTGGAAACAATCTCAGGCAATCACACCGGAACCGTTCCACACAGG
 CAGTTCTTCAAGTGGCTGGAGGAGGAGCTGCCCGACTTGTCCGTTTCTCGAAGGAGTAGCCATCTGCACTG
 GGGCATACCACTTCCCGGGGACGACTCGCAGACCATCTACGTGTGGCTGGATGCCCTGGTCAACTACCTC
 ACTGTAGTTGGTACCCAGATGCAGATTTCAAGTCTTGGTGGCCAGCCACCTCTCATATCATAGGTAAGG
 ACATTTCTCAAATTTTATGCTATTTTATGGCTGCCCTTCTCCTAGGGGACAGGATTGAGGCCACCATCG
 CATCTATGTCCACTCGCACTGGACGGTGAGTGGCAAAAAATGTCCAAAAGCTTGGGCAACGTGGTGGAT
 CCCAGGACTTGCCTTGATCGCTATACTGTGGATGGCTTTCGCTACTTTCTCCTTCGGCAGGGCGTCCCA
 ATTGGGACTGCGATTACTATGATGAAAAGGTGGTTAAATTGCTGGACTCCGAGCTGGCAGATGCCTTAGG
 AGGGCTTTTAAACCGGTGCACTGCCTACAGAAATAATCCTTCTGGAACCTACCCATCTTTCTGTGCTGCC
 TGTTTCCCCAGTGAGCCAGGGTTAACGGGGCCGTCAGTTTCGTGTGCAGGCAGAGATATGCGCTTGTA
 CTGCACTGGCCACTTTACCCAACTGGTAGCGGCTATTATAATGACTTTCAGATCTATAAGGCTCTGGA
 GGCGGTATCCAGCTGTGTTCCGCAAACTAATGGTTTCGTCCAAAGGCACGCACCATGGAATTAAGTGG
 GAGAGCCCTGAGGATGCTCCCTGGCTGGGTACCGTGCTTCACGTAGCCTTGGAGTGCTTGCAGATGTTTG
 GAACTTTGCTTCAAGCTGTTACTCCAACTTAGCAGATAAACTGCTGTCAAGACTGGGAGTCTCTACCAC
 AGAGAGAGGCTTGGAGAGCTCTACTTCTACCTCGATTCTATGGACACCATGCCCTTTGAGGGGAGA
 AAGTTGGGACCTGACACTGGGCTTTTGTTCCTAGACTGGACCAATCTAGGACTCGGCTAGTGAAGCCC
 ACAGGACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209149 representing NM_175439
 Red=Cloning site Green=Tags(s)

MLRQCARWVLTRTRFGRGCRRYGSCSPSASGDAGEARAYFTTPIFYVNAAPHIGHLYSALLADALCRHRR
 LRVPGSASTRFSTGTDEHGLKIQAAATAGLAPIELCDRVSAQFLQLFREADISSTDFIRTTTEARHRVAV
 QHFWGVLEARGLLYKGIYEGWYCASDECFLPEAKVTRQVGPSPGDPVSLSESGHPVSWTKEENYIFKLSQ
 FREPLQRWLGNPQAITPEPFHQAVLQWLEELPDLVSRRSSHLHWGIPVPGDSSQTIYVWLDALVNYL
 TVVGYPDADFKSWPATSHIIGKDILKFHAIYWPALLLGAGLRPPHRIYVHSHWTVSGQKMSKSLGNVVD
 PRTCLDRYTVDFRYFLLRQGVPNWDCDYDEKVVKLLDSELADALGGLNRCCTAYRINPSGTYPSCFAA
 CFPSEPLTGPSVRVQAEDYALVAVATLPLKLVAGYYNDFQIYKALEAVSSCVRQTNGFVQRHAPWKLNW
 ESPEDAPWLGTVLHVALECLRVFTLLQPVTPLNADKLLSRLGVSTTERGLGELYFLPRFYGHPCPFEGR
 KLGPDTGLLFPRLDQSRTRLVKAHRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9081_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175439

ORF Size: 1758 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

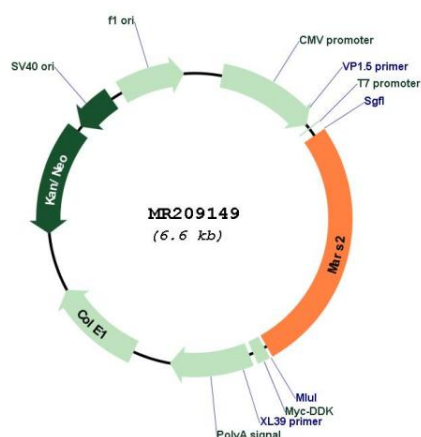
Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

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
MW: 65.8 kDa

Product images:


Circular map for MR209149