

Product datasheet for **MG209149**

Mars2 (NM_175439) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mars2 (NM_175439) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mars2
Synonyms:	C730026E21Rik; MetRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG209149 representing NM_175439
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCGGCAGTGTGCTCGCTGGTGTGACGCGCACCCGGTTCGGCCGCGGTGTGCCGCTACGGTT
 CGTGCTCGCCGAGCGCTAGTGGCGACGCCGGGAAGCGCGGCCTACTTCACCACACCTATCTTCTACGT
 GAACGCCGCGCCGCACATCGGGCACCTGTACTCGGCGCTACTGGCCGACGCCCTGTGCCGCCACCGTCGT
 CTCGAGTTCCCGGCTCTGCGTCCACGCGGTTTTCCACCGCACGGATGAGCACGGCCTGAAGATCCAGC
 AGGCGGCAGCCACCGCCGGCTTGGCCCCGATCGAGCTGTGCGATCGAGTGTCTGCCAGTTTTTGCAGCT
 TTTCCGGGAGGCTGACATCTCTCCACGGACTTCATCCGCACCACGGAGGCTCGGCACCGAGTAGCGGTG
 CAGCATTTCTGGGTGTGCTGGAGGCCCGGGTCTGCTTACAAAGGGATCTATGAAGGGTGGTATTGTG
 CCTCGGATGAGTCTTCTGCCGAGGCCAAGGTTACTCGGCAGGTGGTCCGTCGGGGATCCCTGTCC
 CGTGTCTCTCGAGAGCGGACATCTGTCTCCTGGACGAAGGAAGAAAATTACATTTTCAAGCTTTCTCAG
 TTTTCGAGAACCCTCCAGCGGTGGCTTGGAAACAATCCTCAGGCAATCACACCGGAACCGTTCACCAGG
 CAGTTCTTCAGTGGCTGGAGGAGGAGCTGCCCGACTTGTCCGTTTCTCGAAGGAGTAGCCATCTGCACTG
 GGGCATACCAGTTCGCCGGGACGACTCGCAGACCATCTACGTGTGGCTGGATGCCCTGGTCAACTACCTC
 ACTGTAGTTGGCTACCCAGATGCAGATTTCAAGTCTTGGTGGCCAGCCACCTCTCATATCATAGGTAAGG
 ACATTTTCAAATTTATGCTATTTATTGGCCTGCCCTTCTCCTAGGGGCAGGATTGAGGCCACCACATCG
 CATCTATGTCCACTCGCACTGGACGGTGAAGTGGCCAAAAAATGTCCAAAAGCTTGGGCAACGTGGTGGAT
 CCCAGGACTTGCCTTATCGCTATACTGTGGATGGCTTTCGCTACTTTCTCCTTCGGCAGGGCGTTCCCA
 ATTGGGACTGCGATTACTATGATGAAAAGTGGTAAATTTGCTGGACTCCGAGCTGGCAGTGCCTTAGG
 AGGGCTTTTAAACCGGTGCACTGCCTACAGAATAAATCCTTCTGGAACCTACCCATCTTTCTGTGCTGCC
 TGTTTCCCAAGTGAAGCCAGGTTAACGGGGCCGTGAGTTCGTGTGACAGGAGAAGACTATGCGCTTGTA
 CTGCACTGGCCACTTTACCCAACTGGTAGCGGCTATTATAATGACTTTTCAAGTCTATAAGGCTTGGA
 GGCGGTATCCAGCTGTGTTCCGCAAACTAATGGTTTCTGTCAAAAGGCACGCACCATGGAAATGAACTGG
 GAGAGCCCTGAGGATGCTCCCTGGCTGGTACCGTGTTCACGTAGCCTTGGAGTCTTGCAGTGTGTTG
 GAACTTTGCTTCAAGCTGTTACTCCAACTTAGCAGATAAACTGCTGTCAAGACTGGGAGTCTTACCAC
 AGAGAGAGCCTTGGAGAGCTTACTTCTACCTCGATTCTATGGACACCCATGCCCTTTGAGGGGAGA
 AAGTTGGGACCTGACACTGGGCTTTTGTTCCTAGACTGGACCAATCTAGGACTCGGCTAGTGAAGGCC
 ACAGGACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209149 representing NM_175439
 Red=Cloning site Green=Tags(s)

MLRQCARWVLRTRFRGRCRRYGSCLSPASGDAGEARAYFTTPIFYVNAAPHIGHLYSALLADALCRHRR
 LRVPGSASTRFSTGTDEHGLKIQQAAATAGLAPIELCDRVSAQFLQLFREADISSTDFIRTTEARHRVAV
 QHFWGVLEARGLLYKGIYEGWYCASDECFLEAKVTRQVGPSPVSLVSGHPVSWTKEENYIFKLSQ
 FREPLQRWLGNNPQAITPEPFHQAVLQWLEELPDLVSVRRSSHLHWGIPVPGDDSQTIYVWLDALVNYL
 TVVGYPDADFKSWWPATSHIIGKDIKFHAIYWPALLLGGALRPPHRIYVHSHWTVSGQKMSKSLGNVVD
 PRTCLDRYVDGFRYFLLRQGVNWDYDEKVVKLLDSELADALGLLNRCTAYRINPSGTYPSCAA
 CFPSEPLTGPSVRVQAEDYALVTAVATLPKLVAGYYNDFQIYKALEAVSSVVRQTNGFVQRHAPWKLNW
 ESPEDAPWLGTVLHVALECLRVFTLLQPVTPLADKLLSRLGVSTTERLGLGELYFLPRFYGHPCPFEGR
 KLGPDGLLFPRLDQSRTRLVKAHRT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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.

RefSeq: [NM_175439.3](#), [NP_780648.1](#)

RefSeq Size: 2882 bp

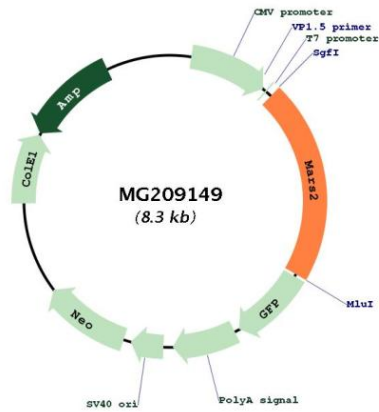
RefSeq ORF: 1761 bp

Locus ID: 212679

UniProt ID: [Q499X9](#)

Cytogenetics: 1 C1.2

Product images:



Circular map for MG209149