

Product datasheet for RN210000

Marc2 (NM_134410) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Marc2 (NM_134410) Rat Untagged Clone
Tag: Tag Free
Symbol: Marc2
Synonyms: mARC1; Mg87; Mosc2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN210000 representing NM_134410
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGTTCTCCAGCTCCACCGCTCTGGCTCGCCTTGGACTCCCCGGCAGCCGGTCCACCTGGCTCG
GCGTCGCCGCGCTGGGACTGGCCGAGTGGCGCTGGGGACCGTGGCTGGCGTCGCGCGCTCCCCGGC
GCGCCGCGAGCTGCAGCAAGTGGGCACGGTGTGCAAGTTTGGATCTACCGATCAAGTCCTGCAAGGGG
GTGTGGTGTGCGAGACTGAGTGCACCGACATGGGGCTGCGCTGCGGCAAAGTGCAGGACAGGTTTTGGA
TGGTGGTTAAGGAAGATGGTCACATGATCACTGCCCGCCAGGAGCCTCGCCTGTGCTGGTACCATCAC
CTTGGAGAACAATTACCTGATGCTCGAAGCTCCAGGCATGGAGCCGATAGTTCTGCCTATCAAGTGCC
TCTTCCAATAAGATCCACGACTGCAGGTTGTTGGCCTCGACATTAAGGAGGAGGATTGTGGCGATGAGG
TGGCCCGGTGGTTCACCAGTACCTAAAGACGCAAGCCTACAGGTTGGTTCAGTTTGATACCAAAATGAA
AGGAAGGACAACAAGAACTCTACCGTCGGAGAGCTACCTCAGAATATGAGGTCGCCTACCCAGAC
TGCAGCCCTATCCACCTGATTTCTGAAGCCTCCTTAGTGGATCTCAACACCAGGCTGCAGAAGAAAGTGA
AGATGGAGTATTTCAAGCCGAACATCGTGGTGTGAGGCTGCGAGGCTTTGAGGAGGACACTGGGATGA
GCTCTTGATTGGTGACGTAGAGATGAAGAGGGTGTGAGCTGCCAGGTCGCTGTTGACTACAGTGGAC
CCAGACACCGGCATCATAGACAGGAAAGAGCCGCTGGAGACCCTGAAGAGCTATCGCCTGTGTGATCCTT
CTGTGAAGAGTTTATACAGTCTCCTACTCTTTGGGATGATTTCTCAGTGGAAAAAATTGGAAGCCT
GAGAGTGGGTGACCCTGTGTATCGGATGGTGGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_134410



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Insert Size:	1017 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_134410.2</u> , <u>NP_599237.1</u>
RefSeq Size:	1329 bp
RefSeq ORF:	1017 bp
Locus ID:	171451
UniProt ID:	<u>O88994</u>
Cytogenetics:	13q26
Gene Summary:	As a component of the benzamidoxime prodrug-converting complex required to reduce N-hydroxylated prodrugs, such as benzamidoxime. Also able to reduce N(omega)-hydroxy-L-arginine (NOHA) and N(omega)-hydroxy-N(delta)-methyl-L-arginine (NHAM) into L-arginine and N(delta)-methyl-L-arginine, respectively (By similarity).[UniProtKB/Swiss-Prot Function]