

## Product datasheet for **RR210000**

### Marc2 (NM\_134410) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Marc2 (NM_134410) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Marc2
Synonyms:	mARC1; Mg87; Mosc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210000 representing NM_134410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTTCTCCAGCTCCACCGCTCTGGCTCGCCTTGGACTCCCCGGCAGCCGGTCCACCTGGCTCG  
GCGTCGCCGCGCTGGGACTGGCCGAGTGGCGTGGGGACCGTGGCTGGCGTCGCGCGCTCCCCGGC  
GCGCCGCGAGCTGCAGCAAGTGGGCACGGTGTGAAGTTTGGATCTACCCGATCAAGTCTGCAAGGGG  
GTGTCCGTGTGCGAGACTGAGTGCACCGACATGGGGCTGCGTGCAGCAAAGTGCAGGACAGGTTTTGGA  
TGGTGGTTAAGGAAGATGGTCACATGATCACTGCCCGCCAGGAGCCTCGCCTGTGCTGGTACCATCAC  
CTTGGAGAACAATTACCTGATGCTCGAAGCTCCAGGCATGGAGCCGATAGTTCTGCCTATCAAGTGCC  
TCTTGAATAAGATCCACGACTGCAGGTTGTTGGCCTCGACATTAAGGAGGGGATTGTGGCGATGAGG  
TGGCCCGGTGGTTCACCAGCTACCTAAAGACGCAAGCCTACAGGTTGGTTCAGTTTGATACCAAAATGAA  
AGGAAGGACAACAAGAACTCTACCCGTCGGAGAGCTACCTCAGAATATGAGGTCGCCTACCCAGAC  
TGCAGCCCTATCCACCTGATTTCTGAAGCCTCCTTAGTGGATCTCAACACCAGGCTGCAGAAGAAAGTGA  
AGATGGAGTATTTCAAGCCGAACATCGTGGTGTGAGGCTGCGAGGCTTTCGAGGAGGACACTGGGATGA  
GCTCTTGATTGGTGACGTAGAGATGAAGAGGGTGTGAGCTGCCAGGTGCGTGTGACTACAGTGGAC  
CCAGACACCGGCATCATAGACAGGAAAGAGCCGCTGGAGACCCTGAAGAGCTATCGCCTGTGTGATCCTT  
CTGTGAAGAGTTTATACAGTCTCCTACTCTTTGGGATGATTTCTCAGTGGAAAAAATTGGAAGCCT  
GAGAGTGGGTGACCCTGTGTATCGGATGGTGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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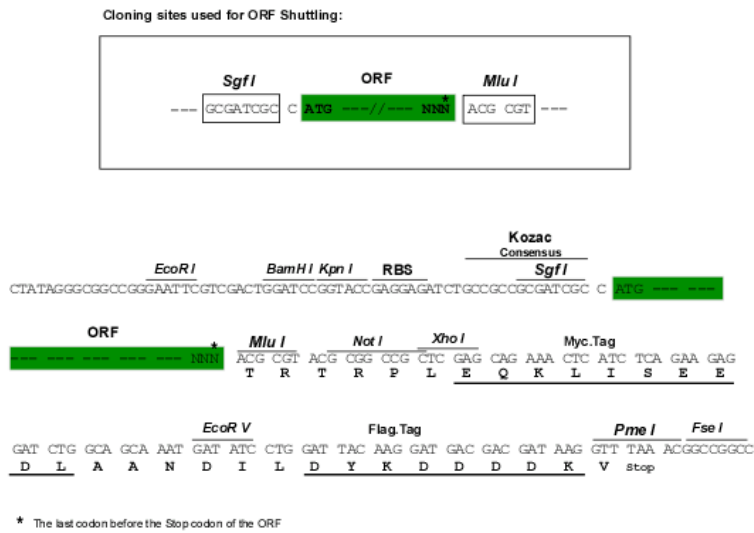
Protein Sequence: >RR210000 representing NM\_134410  
 Red=Cloning site Green=Tags(s)

MGSSSSTALARLGLPGQPRSTWLGVAALGLAAVALGTVAWRRARPRRRRQLQQVGTVSKVWIYPIKCKG  
 VSVCECTDMGLRCGKVRDRFWMVVKEDGHMITARQEPRLVLTITLENNYLMLEAPGMEPIVLPKLP  
 SSNKIHCRLFGLDIKGRDCGDEVARWFTSYLKTQAYRLVQFDTKMKGRITTKLYPSESYLQNYEVAYPD  
 CSPIHLLISEASLVDLNLRLQKKVKMEYFRPNIVVSGCEAFEEDTWEDELLIGDVEMKRVLSCPRCVLTTVD  
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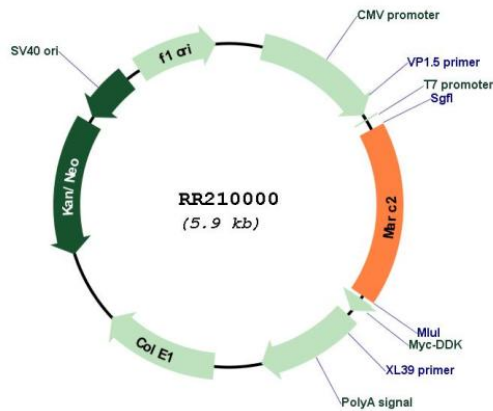
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_134410

ORF Size: 1014 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_134410.2</a> , <a href="#">NP_599237.1</a>
<b>RefSeq Size:</b>	1329 bp
<b>RefSeq ORF:</b>	1017 bp
<b>Locus ID:</b>	171451
<b>UniProt ID:</b>	<a href="#">O88994</a>
<b>Cytogenetics:</b>	13q26
<b>MW:</b>	38.2 kDa
<b>Gene Summary:</b>	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]