

Product datasheet for MR225050

Marc1 (NM_001081361) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Marc1 (NM_001081361) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Marc1
Synonyms:	1300013F15Rik; Mosc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225050 representing NM_001081361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGCGGGTCTGGGCGTGACCCTCTTCGGCTTCTCCGCGTTTCGGGTCCCGGGCCAGCCGCGT
CCACCTGGCTCGGCGTCGCCGCTGGGACTGGCCGCGGTGGCCCTGGGACAGTGGCTGGCGTCGTGC
GCGTCCCCGGCGACGCCGGCTACAGCAAGTGGGAACGGTGGCACAGCTCTGGATCTACCCAATCAAG
TCCTGCAAGGGTGTGCGGTGAGCGAGGACAGTGCATGCCATGGGCTGCGCTATGGCCACCTGCGCG
ACAGGTTTTGGCTCGTGATCAATGAAGAGGGGAACATGGTCACTGCCCGGAGGAGCCTCGATTGGTCTCT
GATTTCTCTGACCTGTGAGGACGACACCTTGACTCTCAGTGCAGCTTACACAAAGGACCTGCTGCTGCC
ATCACCCCGCTGCCACAACCCACTCCTCCAGTGCAGAGTGCATGGCCTGGAGATACAGGGCAGGGATT
GTGGAGAGGATGCAGCTCAGTGGGTGAGCAGCTTCTTGAAGATGCAGTCTGTGCGCTGGTGCATTCGA
GCCGCACATGCGCCCCAGAACTTCTCGGCAATGAAGGCTTCCAATCATTTTCTCAAAATAATGAAGTG
GCCTACTCAGATGCAAGTCCATTCTTGGTCTTCTGAGGCATCCTTGAAGATCTCAACTCCAGGCTGG
AGCGCAGAGTGAAGCGACAACTTCAGGCCTAACATTGTCATCTCGGATGTGGCGTTTATGCTGAGGA
TTCTTGAACGAGTTCTCATTGGAGATGTGAACTGAAACGGGTGATGGCTTGTACCCGGTGCCTTTTA
ACAACAGTGGATCCAGACTGGCATCTCGACAGGAAGGAGCCTCTGGAACACTGAAGAGCTACCGCC
TGTGTGACCTTCCGAGCAAGCACTATATGAAAAGTTACCCATCTTTGGACAATACTTCGCTCTGAAAA
TCCAGGGACAATCAGAGTGGGAGACCCTGTGTACCTCCTGGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225050 representing NM_001081361
Red=Cloning site Green=Tags(s)

MGAGSWALTLFGFSAFRVPGQPRSTWLGVAALGLAAVALGTVAWRRARPRRRRLQQVGTVAQLWIYPIK
 SCKGLSVSEAECTAMGLRYGHLRDRFWLVINEEGNMVTARQEPRLVLSLTCEDDTLTLAAAYTKDLLLP
 ITTPATNPLLQCRVHGLEIQGRDCGEDAAQWVSSFLKMQSCLVHFEPHMRPSSRQMKASKSFSQNNNEV
 AYSDASPFLVLEASLEDLNSRLERRVKATNFRPNIVISGCGVYAEDSWNEVLIGDVELKRVMACTRCLL
 TTVPDPTGISDRKEPLETLKSYRLCDPSEQALYGKLIIFGQYFALENPGTIRVGDVPVYLLGQ

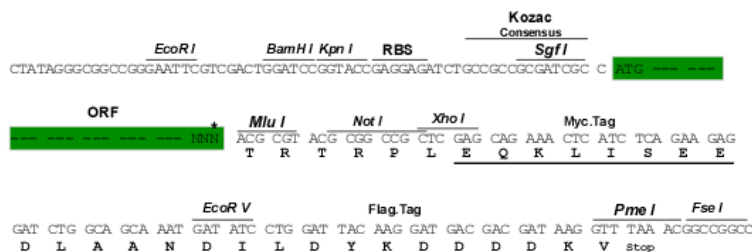
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001081361

ORF Size: 1026 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_001081361.1](#), [NP_001074830.1](#)

RefSeq Size: 2161 bp

RefSeq ORF: 1029 bp

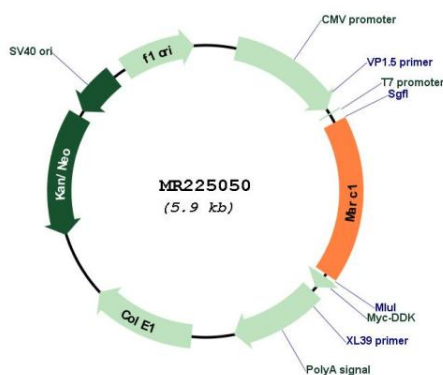
Locus ID: 66112

Cytogenetics: 1 H5

MW: 38.6 kDa

Gene Summary: As a component of an N-hydroxylated 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]

Product images:



Circular map for MR225050