

Product datasheet for MR205693

Mri1 (NM_026423) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mri1 (NM_026423) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mri1
Synonyms:	2410018C20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205693 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACACTGGAAGCGATCCGCTACTCGCCCGGCTCGTGCAGATCCTCGACCAGCTGCAGCTGCCAGAGC
ACTGCCACTATGAGGCACTGAGCTCCGTGCAGCAGGCTAGTGAAGCCATCCGCGCCATGAAGGTGCGCGG
AGCCCCGGCCATCGCGTGGTGGCTGCCTCAGCCTGGCCGTGGAGCTGCGGGCCGGCGCCGGCTCC
GGACTCGTGCTCTGGTGGCCTTCGTGCGAGACCAGCTGCGCCTCTAGTCGCCCGCCGGCCACCCTG
TCAACATGGCCCGCGCCCGCCGATCTGGGTCAAGTGGCAGCCAGGAGCGGAACGAGAGGGTGCCAC
TGAAGAGACCGTGCGGGAAAGAGTGATCCGCTTCGCCGAGGATATGTTGGAGAAGGACCTCAAAGACAAC
CGGAGCATCGGGGACCTGGGAGCCCGCCATCTCCTAGAGCAGACCAACCCAGGGGTGGCAAGGTGACCG
TGCTGACCCACTGTAACACGGGTGCTCTGGCCACTGCTGGCTATGGTACAGCGTTAGGTGTGATCCGCTC
ACTGCATGAGATGGGCGGATTGGAGCATACCTTCTGCACAGAGACCCGGCCCTACAACAGGGAGCCCGG
CTGACGGCCTTCGAGTGGTGTACGAGCAGATCCCTGCAACTCTCATCACTGACAGCATGGCGGGCGGTG
CCATGGCACACCGGGTGTGTACGCCGTGGTGGTGGGAGCTGACCGTGTGTTGCCAATGGAGACACAGC
CAACAAAATAGGCACCTATCAGCTGGCCATTGTGCGCAACACCACGGTGTCCCTTCTATGTGGCTGCC
CCCAGTTTCATCCTGTGACCTCCATCTGGAGACTGGAAAGGAGATTGTCATAGAGGAACGCCACGCCAGG
AGCTAACTGACCTGAATGGAGTCAGGATTGCTGCACAGGGAATCCGGGTTTGAATCCTGCCTTTGATGT
CACCCCCACGAACTCATCACAGGTGGCATCATCACTGAACTGGGTGTCTTTGCCCTGAGGAGCTCCGA
GGAGCCCTAAGTGCCCTCCGTCTTCTCAGAGGGACAGACCCTAGATAGTCCTGGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205693 protein sequence
 Red=Cloning site Green=Tags(s)

MTLEAIRYSPGSLQILDQLQPEHCHYEALSSVQQASEAIRAMKVRGAPAIALVGCLSLAVELRAGAGGP
 GLAALVAFVRDQLRLLVAARPTAVNMARAARDLGQVAAQEAEREGATEETVRERVIRFAEDMLEKDLKDN
 RSIGDLGARHLLLEQTNPRGGKVTVLTHCNTGALATAGYGTALGVIRSLHEMGRLEHTFCTETRPYNQGAR
 LTAFELVYEQIPATLITDSMAAAAMAHRGVSAVVVGADRVVANGDTANKIGTYQLAIVAKHHGVFPYVAA
 PSSSCDLHLETGKEIVIEERPSQELTDLNGVRIAAQGIWVWPAFDVTPHELITGGIITELGVFAPEELR
 GALASVVFSEGQTLDSPWV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026423

ORF Size: 1110 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_026423.1](#), [NM_026423.2](#), [NM_026423.3](#), [NM_026423.4](#), [NP_080699.2](#), [NP_080699.3](#)

RefSeq Size: 2149 bp

RefSeq ORF: 1110 bp

Locus ID: 67873

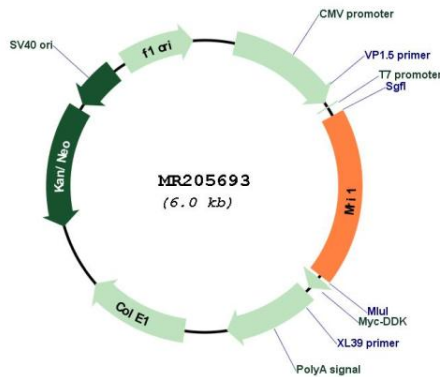
UniProt ID: [Q9CQT1](#)

Cytogenetics: 8 C2

MW: 39.4 kDa

Gene Summary: Catalyzes the interconversion of methylthioribose-1-phosphate (MTR-1-P) into methylthioribulose-1-phosphate (MTRu-1-P).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205693