

Product datasheet for **RR207421**

Mri1 (NM_001010947) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mri1 (NM_001010947) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mri1
Synonyms: RGD1307789
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207421 representing NM_001010947
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGACTGGAAGCGATCCGCTACTCGCCGGGCTCGTGCAGATCCTCGACCAGCTGCAGCTGCCGGAGC
ACTGCCACTATGAGACGCTGAGCTCCGTGCAGCAGGCCAGGAAGCGATCCGCGCCATGAAGGTGCGCGG
CGCTCCCGCCATCGCGCTGGTGGTTGCCTCAGCCTGGCTGTAGAGCTGCAGCGGGTGC GGCGGTCCG
GGCTCGCCGCTCTGGTGGCTTCGTGCGAGACCAGCTGAGCCTCCTTGTGCGCCGCCGCCACAGCTG
TCAACATGGCCCGCGCCGCCCGGATCTGACTCATGGCGGCCGAGAGCGGAACTAGAGGGTGTACT
TGAAGAGACCGTGC GGAAAGAGTGATCCGCTTTGCCGAGGACATGTTGGAGAAAGACCTCAAAGATAAC
CGGAGCATTGGCGACTTGGGAGCCGCCATCTCCTAGAGCAGACCAACCCAGGGGTGGCAAGGTGACTG
TGCTGACCCACTGTAACACCGGTGCTCTGGCCACTGCCGGCTACGGTACAGCATTAGGTGTGATCCGCTC
ACTGCACGAGATGGGTGACTGGAGCATACCTTCTGCACGAAACCCGGCCCTACAACCAGGGAGCACGG
CTGACAGCCTTCGAGCTGGTGTACGAGAAGATCCCTGCGACTCTCATCACTGACAGTATGGCCGCTGCAG
CCATGGTACACCAGGGTGTGTAGCTGTGGTGGTGGGAGCTGATCGTGTGTTGCCAACGGAGACACAGC
CAACAAGATAGGCACCTACCAGCTGGCCATCGTCGCCAACCAACCGGTATCCCCTTCTATGTGGCTGCC
CCCAGTTCATCCTGTGACCTCCGTCTGGAGACTGGAAAGGAGATTGTCATAGAGGAACGCCCCAGCCAGG
AGCTGACTGACCTGAATGGAGTCAGGATTGCTGCACAGGGAATCCGGGTTTGAATCCTGCCTTTGATGT
CACCCCCACGAACTCATCACAGGCGGCATCATCACTGAGCTGGGTGCTTTGCCCTGAGGAGCTCCGT
GCAGCCCTAAGCGCCACCATCTTCTCAGAGGGACAGACCCTAGATAGTCCCCAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207421 representing NM_001010947
 Red=Cloning site Green=Tags(s)

MRLEAIRYSPGSLQILDQLPEHCHYETLSSVQQAREAIRAMKVRGAPAIALVGCLSLAVELQAGAGGP
 GLAALVAFVRDQLSLLVAARPTAVNMARAARDLTHMAAREAELEGATEETVRERVIRFAEDMLEKDLKDN
 RSIGDLGARHLLLEQTNPRGGKVTVLTHCNTGALATAGYGTALGVIRSLHEMGRLEHTFCTETRPYNQGAR
 LTAFELVYEKIPATLITDSMAAAAMVHQGVSAVVVGADRVVANGDTANKIGTYQLAIVAKHHGIPFYVAA
 PSSCDLRLLETGKEIVIEERPSQELTDLNGVRIAAQGIWVWNPFDVTPHELITGGIITELGVFAPEELR
 AALSATIFSEGQTLDSPQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

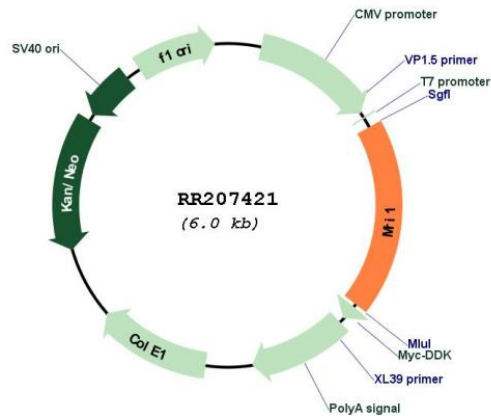
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001010947

ORF Size:	1107 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:	<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:	NM_001010947.1 , NP_001010947.1
RefSeq Size:	1246 bp
RefSeq ORF:	1110 bp
Locus ID:	288912
UniProt ID:	Q5HZE4
Cytogenetics:	19q11
MW:	39.6 kDa
Gene Summary:	Catalyzes the interconversion of methylthioribose-1-phosphate (MTR-1-P) into methylthioribulose-1-phosphate (MTRu-1-P).[UniProtKB/Swiss-Prot Function]