

## Product datasheet for **SC100905**

### **MRI1 (NM\_032285) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MRI1 (NM_032285) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRI1
Synonyms:	M1Pi; MRDI; MTNA; Ypr118w
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032285, the custom clone sequence may differ by one or more nucleotides

```
ATGACCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCAAGC
AGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGG
CGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGACCG
GGACTCGCCGCGCTCGTGGCCTTCGTGCGCGACAAGCTGAGCTTCTCGTCACCGCCGGCCACCCTGCTAC
TCAACATGGCCCGCGCCCGCCGACCTGGCTGATGTTGCAGCCGGGAGGCCGAACGGGAGGGCGCTAC
GGAAGAGGCGGTCCGGGAGAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATACCAGGCAGAGG
GAACTGCCACTGCGAGGGCCCTGGGCGGGACTGTGCTCGAGACCCGGCCCTACAACCAGGGAGCCCGGC
TGACGGCCTTTGAGCTGGTCTATGAGCAGATCCCCGCCACCTTATCACCAGACAGCATGGTGGTCTGCTG
CATGGCCCATAGGGGCGTGTGAGCTGTGGTTCGTGGGAGCTGACCGCGTGGTTGCCAACGGCGACACAGCC
AACAAAGTGGGCACCTACCAGCTGGCCATTGTGCGCAAGCACCATGGCATTCCCTTCTACGTGGCTGCC
CCAGCTTTCATGTGACCTCCGCTCTGGAGACCGCAAGGAGATCATTATTGAAGAGCGACCGGGCCAGGA
GCTGACCGATGTTAATGGGGTCCGGATTGCAGCACCTGGGATTGGAGTTTGAATCCTGCCTTCGATGTC
ACCCCCACGACCTCATCACTGGTGGCATCATCAGAACTGGGGTCTTTGCCCTGAGGAGCTCCGGA
CAGCCCTAACCAACCACCATCTCTCCAGGGATGGAACCTAGATGGACCCAGATGTAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032285 unedited  
 GTCAAAATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGCTGCACCATN  
 GACCTGGAGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGTGCTG  
 CCCAAGCAGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCTGGGAGGCCATCCGC  
 GCCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTG  
 GAGCTGCAGGCGGGCGCCGGGGACCGGACTCGCCGCGCTCGTGGCTTCGTGCGCGAC  
 AAGCTGAGCTTCCTCGTACCCGCGGCCACCCTGTCAACATGGCCCCGCGCCCGCCG  
 GACCTGGCTGATGTTGCAGCCCGGGAGGCCGAACGGGAGGGCGCTACGGAAGAGGCGGTC  
 CGGGAGAGACGTGAAACGAGCTATGCGAGCATTGGGAAGAGCATACCAGGCAGAGGGAA  
 CTGCCACTGCGAGGGCCCTGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCC  
 CAGACTAGGAGCCTGCACCCCTAACCAATGGACCACCCTGTCTGTTTGCCCTCCCCGGG  
 GCCTTCTCCTGGTGGTGGGGCCCCGCANGTGTGATTGCTCACTGCACAGCCTGGGCC  
 GNCTGGAGCATGCCTTCTGCACAGAGACCCGGCCCTACACCAGGGAGCCCGGCTGACGG  
 GCCTTGAGCTGGTCTATGAGCAGATCCCCGCCACCCTTATCACCGACAGCATGGTGGCTG  
 CTGCCATGGCCATAGGGGCGTGTCACTGTGGTGTGGGAGCTGACCGCTGGTTGCC  
 ACGGCGACACAGCCACAAGGTGGGCACTACCAGCTGGCCATTGTCGNCAGCACCATGGC  
 ATCCCTTCTACGTGGCTGCCCCAGCTCTTCTGTGACCTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_032285 unedited  
 NNTTTTTACTCTGGACCCGCGGCCGATNCTAGNGATCGTTTTTTTTTTTTTTTTTTTGA  
 CATGATAAGCTAACGTTTATTGAGAGCTTATGTGTTTTAGAAAATTACAACGTTTTATG  
 ATCTTTACACATAAAAACTCAGACTAGGTTAGGGTGTGGCACTCACCTCTGGTACAGAAT  
 TTAAGAAGGTTCAAAAACTTTGGTAATAGTAAACAATATTTTCAAGACTTAAAAATATT  
 TTAATATCCAAAATAATCAAATGTTAACTACATCCTGCAGACCGGCAGCATAATTTTG  
 TAAATAAAGTTTTAGTGAACCAAGGTTGTTGAGGTCAGTAAGCTCAAGGCACAAGTGCGG  
 GGTCTAGCCTCTCAAATTTTTATTTAGCCCGGGCACGGTGGCTCACGCTTGTAAATCCC  
 AGCACTTTCGGAGGCCGCGGGGCGGGATCACCCGAGGTCAGGAGTTGGAGACCAGCCAC  
 GACTAACATGGTGTCTCAATAAAAAATCAAAAAATTAGCCAGGCATAGTGCCAGGCTCCT  
 GCAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAGTCGCCTGAACCCAGAAGGCGGAGG  
 TTGCACTGAGCTGAGATGGCACCCTGCACTCCAGCCTGGGCGACAGAGCGAGACCCCGT  
 CTCAAACAATACTTGTGTTGTTTCATCATGGATTTTTTTTTTTTTTAAAGAGATGGGTC  
 TCACTCTGTTGCCAGGTGAAGTGCAGTANTGCAATCAAAGCACACTGCATCCTTGAACC  
 TCCTGGCTCAAGCCATCCTCCACCTCAGCCTGAGTAGCTGGGGCTAGAGGTGTGAGTTCC  
 ATTGCCAGCTCATGGTTTTAAATTTTTGTTTGAAGAGACAAGCTCTTCCATGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_032285

**Insert Size:**

3090 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:**

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\\_032285.1](#), [NP\\_115661.1](#)

**RefSeq Size:** 3043 bp

**RefSeq ORF:** 969 bp

**Locus ID:** 84245

**UniProt ID:** [Q9BV20](#)

**Cytogenetics:** 19p13.13

**Domains:** IF-2B

**Gene Summary:** This enzyme functions in the methionine salvage pathway by catalyzing the interconversion of methylthioribose-1-phosphate and methylthioribulose-1-phosphate. Elevated expression of the encoded protein is associated with metastatic melanoma and this protein promotes melanoma cell invasion independent of its enzymatic activity. Mutations in this gene may be associated with vanishing white matter disease (VMWD). [provided by RefSeq, Jul 2016]  
Transcript Variant: This variant (2) has multiple differences in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.