

Product datasheet for **SC319380**

MRI1 (NM_001031727) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRI1 (NM_001031727) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRI1
Synonyms:	M1Pi; MRDI; MTNA; Ypr118w
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001031727.2
 CTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCATGACCCTGGAGGCGATCCG
 CTA CTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCAAGCAGAGCCGCTA
 CGAGGGCGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGG
 CGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGC
 CGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGGACAAGCTGAGCTTCCTCGT
 CACCGCCCGGCCACCGCTGTCAACATGGCCCGCGCCCGCGACCTGGCTGATGTTGC
 AGCCCGGAGGCCGAACGGGAGGCGCTACGGAAGAGGCGGTCCGGGAGAGAGTGATCTG
 CTGCACCGAGGACATGCTGGAGAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGG
 AGCCCGCCACCTCCTGGAGCGGGTGGCCCCAGCGGTGGCAAGGTGACTGTGCTGACCCA
 CTGTAACACTGGTCTCTGGCCACCGCTGGCTATGGTACAGCCCTAGGTGTGATTCGCTC
 ACTGCACAGCCTGGGCCGCTGGAGCATGCCTTCTGCACAGAGACCCGGCCCTACAACCA
 GGGAGCCCGGCTGACGGCCTTTGAGCTGGTCTATGAGCAGATCCCGCCACCCTTATCAC
 CGACAGCATGGTGGCTGCTGCCATGGCCATAGGGGCGTGTGAGCTGTGGTCTGGGAGC
 TGACCGCTGGTTGCCAACGGCGACACAGCCAACAAGGTGGGCACCTACCAGCTGGCCAT
 TGTGCGCAAGCACCATGGCATTCCCTTCTACGTGGCTGCCCCAGCTTTCATGTGACCT
 CCGTCTGGAGACCGCAAGGAGATCATTATTGAAGAGCGACCGGGCCAGGAGCTGACCGA
 TGTTAATGGGGTCCGGATTGCAGCACCTGGGATTGGAGTTTGGAAATCCTGCCTTCGATGT
 CACCCCCACGACCTCATCACTGGTGGCATCATCACAAGACTGGGGTCTTTGCCCTGA
 GGAGCTCCGGACAGCCCTAACACCACCATCTCTCCAGGGATGGAACCCTAGATGGACC
 CCAGATGTAACCAACTCAGCTCTCCCTAGCCTGCCTCTAGGTTTTTCAATACATTTCT
 TGAATGGTACCCAAAAGCTGACCGTCCAGCCCCTGACCACACTTGTTCCCTAGTGCAGGG
 AGCTCAGACAGGGCCTTCCATCTAGAGCCCAGCACCTAGAGCCAGGCTGCCAGATTCAA
 ATCCTGACTCCGCCACTTTTCCCACTGTATGATCTTGGGCAAGTCACTTCACTCTCTGT
 GCCTTGGTTTCTCATTATAAAAATGTGGATAACAGGCCGGGCGCAGTGGCTCACGCCTG
 TGATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACAAGATCAGGAGATTGAGACCA
 TCCTGGTAACATGGTGAACCCCATCTCTGCTGAAAATACAAAAAATTAGCCGGGTGTG
 GTGGTGGGCACCTGCGGTCCCAGCTACTGGGAGGCTGAGGCGGGAGAGTGGCGTAAAC
 TGGGAGGCGGAGCTTGCAGTGCAGCCGAGATGGCGCCACTGCACTCCAGCCTGGGCAACAG
 AGCGAGACTCCGTCTCAAAAATAAATAAATTAATTAATTTAATTAATTAATTAATTAATTA
 AAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001031727
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001031727.2](#), [NP_001026897.1](#)

RefSeq Size: 3177 bp

RefSeq ORF: 1110 bp

Locus ID: 84245

UniProt ID: [Q9BV20](#)

Cytogenetics: 19p13.13

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 (1) encodes the longest 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.