

## Product datasheet for **RG200993**

### **MRI1 (NM\_001031727) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRI1 (NM_001031727) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRI1
Synonyms:	M1Pi; MRDI; MTNA; Ypr118w
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200993 representing NM_001031727 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCAAGC  
AGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGG  
CGCCCCGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGACCG  
GGACTCGCCGCGCTCGTGGCCTTCGTGCGGACAAGCTGAGCTTCTCGTCACCGCCCGCCACCCTGCTAC  
TCAACATGGCCCGCGCCCGCCGACCTGGCTGATGTTGCAGCCGGGAGGCCGAACGGGAGGGCGCTAC  
GGAAGAGGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGACATGCTGGAGAAAGACCTCAGAGACAAC  
CGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCCCCAGCGGTGGCAAGGTGACTG  
TGCTGACCCTGTAACACTGGTCTTGCCACCGCTGGCTATGGTACAGCCCTAGGTGTGATTCGCTC  
ACTGCACAGCCTGGGCGCCTGGAGCATGCCTTCTGCACAGACCCGGCCCTACAACAGGGAGCCCGG  
CTGACGGCCTTTGAGCTGGTCTATGAGCAGATCCCGCCACCCTTATCACCGACAGCATGGTGGCTGCTG  
CCATGGCCATAGGGGCGTGTGAGCTGTGGTGTGGGAGCTGACCGCGTGGTTGCCAACGGCGACACAGC  
CAACAAGTGGGCACCTACCAGCTGGCCATTGTGCGCAAGCACCATGGCATTCCCTTCTACGTGGCTGCC  
CCCAGCTTTCATGTGACCTCCGCTGGAGACCGGCAAGGAGATCATTATTGAAGAGCGACCGGGCCAGG  
AGCTGACCGATGTTAATGGGGTCCGGATTGCAGCACCTGGGATTGGAGTTTGAATCCTGCCTTCGATGT  
CACCCCCACGACCTCATCACTGGTGGCATCATCACAGAAGTGGGGTCTTTGCCCTGAGGAGCTCCGG  
ACAGCCCTAACCCACCACATCTCTCCAGGGATGGAACCTAGATGGACCCAGATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200993 representing NM\_001031727  
 Red=Cloning site Green=Tags(s)

MTLEAIRYSRGSLLQILDQLLLPKQSRYEAVGSVHQAWAETIRAMKVRGAPAIALVGCLSLAVELQAGAGGP  
 GLAALVAFVRDKLSFLVTARPTAVNMARAARDLADVAAREAEREGATEEAVRERVICCTEDMLEKDLRDN  
 RSIGDLGARHLLERVAPSGGKVTVLTHCNTGALATAGYGTALGVIRSLHSLGRLEHAFCTETRPYNQGAR  
 LTAFELVYEQIPATLITDSMVAAMAHRGVSAVVVGADRVVANGDTANKVGTYQLAIVAKHHGIPFYVAA  
 PSSSCDLRLETGKEIIIEERPGQELTDVNGVRIAAPGIGVWNPAPFDVTPHDLITGGIITELGVFAPEELR  
 TALTTTISSRDGTLDPQM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001031727

**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:**

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\\_001031727.4](#)

**RefSeq Size:** 3177 bp

**RefSeq ORF:** 1110 bp

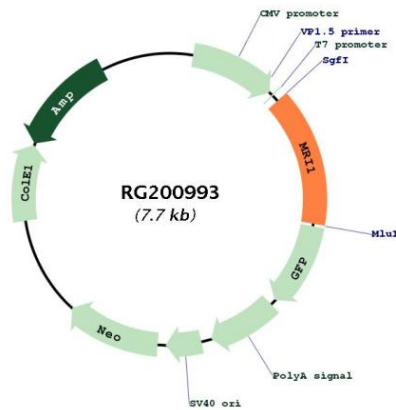
**Locus ID:** 84245

**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]

**Product images:**



Circular map for RG200993