

Product datasheet for **RG217594**

MRI1 (NM_032285) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRI1 (NM_032285) 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:	>RG217594 representing NM_032285 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCAAGC
AGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGG
CGCCCCGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGACCG
GGACTCGCGCGCTCGTGGCCTTCGTGCGCGACAAGCTGAGCTTCTCGTCACCGCCGGCCACCCTGCTAC
TCAACATGGCCCGCGCCCGCCGACCTGGCTGATGTTGCAGCCGGGAGGCCGAACGGGAGGGCGCTAC
GGAAGAGGCGGTCCGGGAGAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATACCAGGCAGAGG
GAACTGCCACTGCGAGGGCCCTGGGCGGGACTGTGCTCGAGACCCGGCCCTACAACCAGGGAGCCCGGC
TGACGGCCTTTGAGCTGGTCTATGAGCAGATCCCCGCCACCTTATCACCAGACAGCATGGTGGTCTGCTG
CATGGCCCATAGGGGCGTGTGAGCTGTGGTCTGGGAGCTGACCGCGTGGTTGCCAACGGCGACACAGCC
ACAAGGTGGGCACCTACCAGCTGGCATTGTGCGCAAGCACCATGGCATTCCCTTCTACGTGGCTGCC
CCAGCTTTCATGTGACCTCCGCTCGGAGACCGGAAGGAGATCATTATTGAAGAGCGACCGGGCCAGGA
GCTGACCGATGTTAATGGGGTCCGGATTGCAGCACCTGGGATTGGAGTTTGAATCCTGCCTTCGATGTC
ACCCCCACGACCTCATCACTGGTGGCATCATCACAGAAGTGGGGTCTTTGCCCTGAGGAGCTCCGGA
CAGCCCTAACACCACCATCTCTCCAGGGATGGAACCCCTAGATGGACCCAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217594 representing NM_032285
Red=Cloning site Green=Tags(s)

MTLEAIRYSRGSLLQILDQLLLPKQSRYEAVGSVHQAWAETIRAMKVRGAPAIALVGCLSLAVELQAGAGGP
 GLAALVAFVRDKLSFLVTARPTAVNMARAARDLADVAAREAEREGATEEAVRERRETELCEHWEEHTRQR
 ELPLRGPLGGTVLETRPYNQGARLTAFELVYEQIPATLITDSMVAAMAHRGVSAYVVVGADRVVANGDTA
 NKVGTYQLAIVAKHHGIPFYVAAPSSCDLRLETGKEIIIEERPGQELTDVNGVRIAAPGIGVWNPADFV
 TPHDLITGGIITELGVFAPEELRTALTTTISRDTLDGPFQM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032285

ORF Size: 966 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_032285.4](#)

RefSeq Size: 3043 bp

RefSeq ORF: 969 bp

Locus ID: 84245

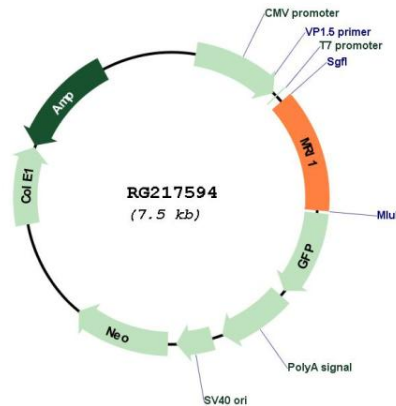
UniProt ID: [Q9BV20](#)

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]

Product images:



Circular map for RG217594