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Product datasheet for SC314547

MTRR (NM_024010) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTRR (NM_024010) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTRR
Synonyms:	cblE; MSR
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_024010 edited
GGAGCTTTCTATTGGTCCTGGGTACCGAGCATGGGCGCTGCGTCAGTGCGCGCTGGCGCA
AGGTTGGTGGAAGTCGCGTTGTGCAGTTTCACTGTTACATGCCTTGAAGTGATGAGGAGG
TTTCTGTTACTATATGCTACACAGCAGGGACAGGCAAAGGCCATCGCAGAAGAAATATGT
GAGCAAGCTGTGGTACATGGATTTTCTGCAGATCTTCACTGTATTAGTGAATCCGATAAG
TATGACCTAAAAACCGAAACAGCTCCTCTTGTTGTTGTGGTTTCTACCACGGGCACCGGA
GACCCACCCGACACAGCCCGCAAGTTTGTTAAGGAAATACAGAACCAAACACTGCCGGTT
GATTTCTTTGCTCACCTGCGGTATGGGTTACTGGGTCTCGGTGATTCAGAATACACCTAC
TTTTGCAATGGGGGGAAGATAATTGATAAACGACTTCAAGAGCTTGGAGCCCGGCATTTC
TATGACACTGGACATGCAGATGACTGTGTAGGTTTAGAACTTGTGGTTGAGCCGTGGATT
GCTGGACTCTGGCCAGCCCTCAGAAAGCATTTTAGGTCAAGCAGAGGACAAGAGGAGATA
AGTGGCGCACTCCCGGTGGCATCACCTGCATCCTTGAGGACAGACCTTGTGAAGTCAGAG
CTGCTACACATTGAATCTCAAGTCGAGCTTCTGAGATTCGATGATTCAGGAAGAAAGGAT
TCTGAGGTTTTGAAGCAAAATGCAGTGAACAGCAACCAATCCAATGTTGTAATTGAAGAC
TTTGAGTCCTCACTTACCCGTTCGGTACCCCCACTCTCACAAGCCTCTCTGAATATTCCT
GGTTTACCCCCAGAATATTTACAGGTACATCTGCAGGAGTCTCTTGGCCAGGAGGAAAGC
CAAGTATCTGTGACTTCAGCAGATCCAGTTTTTCAAGTGCCAATTTCAAAGGCAGTTCAA
CTTACTACGAATGATGCCATAAAAACCACTCTGCTGGTAGAATTGGACATTTCAAATACA
GACTTTTCCTATCAGCCTGGAGATGCCTTCAGCGTGATCTGCCCTAACAGTGATTCTGAG
GTACAAAGCCTACTCCAAAGACTGCAGCTTGAAGATAAAAGAGAGCACTGCGTCCTTTTG
AAAATAAAGGCAGACACAAAGAAGAAAGGAGCTACCTTACCCCAGCATATACCTGCGGGA
TGTTCTCTCCAGTTCATTTTTACCTGGTGTCTTGAAATCCGAGCAATTCCTAAAAAGGCA
TTTTTGCGAGCCCTTGTGGACTATACCAGTGACAGTGCTGAAAAGCGCAGGCTACAGGAG
CTGTGCAGTAAACAAGGGGCAGCCGATTATAGCCGCTTTGTACGAGATGCCTGTGCCTGC
TTGTTGGATCTCCTCCTCGCTTTCCCTTCTTGCCAGCCACCACTCAGTCTCCTGCTCGAA
CATCTTCCTAAACTTCAACCCAGACCATATTCGTGTGCAAGCTCAAGTTTATTTCACCCA
GGAAAGCTCCATTTTGTCTTCAACATTGTGGAATTTCTGTCTACTGCCACAACAGAGGTT
CTGCGGAAGGGAGTATGTACAGGCTGGCTGGCCTTGTTGGTTGCTTCAGTTCTTCAGCCA
AACATACATGCATCCCATGAAGACAGCGGGAAAGCCCTGGCTCCTAAGATATCCATCTCT
CCTCGAACAACAAATTCTTTCCACTTACCAGATGACCCCTCAATCCCCATCATAATGGTG
GGTCCAGGAACCGGCATAGCCCCGTTTATTGGGTTCCTACAACATAGAGAGAAACTCCAA
GAACAACACCCAGATGGAAATTTTGGAGCAATGTGGTTGTTTTTTGGCTGCAGGCATAAG
GATAGGGATTATCTATTCAGAAAAGAGCTCAGACATTTCCTTAAGCATGGGATCTTAACT
CATCTAAAGGTTTCCTTCTCAAGAGATGCTCCTGTTGGGGAGGAGGAAGCCCCAGCAAAG
TATGTRCAAGACAACATCCAGCTTCATGGCCAGCAGGTGGCAAGAATCCTCCTCCAGGAG
AACGGCCATATTTATGTGTGTGGAGATGCAAAGAATATGGCCAAGGATGTACATGATGCC
CTTGTGCAAATAATAAGCAAAGAGGTTGGAGTTGAAAAACTAGAAGCAATGAAAACCCTG
GCCACTTTAAAAGAAGAAAAACGCTACCTTCAGGATATTTGGTCATAAAACCAGAAATTA
AAGAAAGAGGATTAAGCTTTTTTGACTGAAAGTACTAAAAGTCAGCTTTACTAGTGCCAA
ACCTTTAAATTTTCAAAAGAAAATTTTCTTTCAACATTTCTTGAAGGACATGGAGTGGAG
ATTGGATCATTTAACAATATAACAAAACTTCCTGATTTGATTTTACGTATCTTCTATCTA
CGCCCTTCCTGTGCCTGTGACTCTCCCCA

Restriction Sites: Please inquire

ACCN: NM_024010

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:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
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_024010.1, NP_076915.1
RefSeq Size:	3291 bp
RefSeq ORF:	2178 bp
Locus ID:	4552
UniProt ID:	Q9UBK8
Cytogenetics:	5p15.31
Domains:	flavodoxin, NAD_binding_1, FAD_binding_1
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the ferredoxin-NADP(+) reductase (FNR) family of electron transferases. This protein functions in the synthesis of methionine by regenerating methionine synthase to a functional state. Because methionine synthesis requires methyl-group transfer by a folate donor, activity of the encoded enzyme is important for folate metabolism and cellular methylation. Mutations in this gene can cause homocystinuria-megaloblastic anemia, cbl E type. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2015] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 6. Variants 1, 2, 6, 7, and 8 all encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.