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Product datasheet for RC214275L1V

MTR (NM_000254) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MTR (NM_000254) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MTR
Synonyms:	cblG; HMAG; MS
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_000254
ORF Size:	3795 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214275).
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.
RefSeq:	NM_000254.1
RefSeq Size:	7122 bp
RefSeq ORF:	3798 bp
Locus ID:	4548
UniProt ID:	Q99707
Cytogenetics:	1q43
Domains:	Pterin_bind, S-methyl_trans, B12-binding_2, Met_synt_B12, B12-binding
Protein Families:	Druggable Genome

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Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways, One carbon pool by folate

MW: 140.3 kDa

Gene Summary: This gene encodes the 5-methyltetrahydrofolate-homocysteine methyltransferase. This enzyme, also known as cobalamin-dependent methionine synthase, catalyzes the final step in methionine biosynthesis. Mutations in MTR have been identified as the underlying cause of methylcobalamin deficiency complementation group G. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]