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Product datasheet for RC200297L3V

MTHFD1 (NM_005956) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MTHFD1 (NM_005956) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MTHFD1
Synonyms:	CIMAH; MTHFC; MTHFD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_005956
ORF Size:	2805 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200297).
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_005956.2, NP_005947.2
RefSeq Size:	3466 bp
RefSeq ORF:	2808 bp
Locus ID:	4522
UniProt ID:	P11586
Cytogenetics:	14q23.3
Domains:	FTHFS, THF_DHG_CYH
Protein Families:	Druggable Genome, Stem cell - Pluripotency

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Protein Pathways: Glyoxylate and dicarboxylate metabolism, Metabolic pathways, One carbon pool by folate

MW: 101.5 kDa

Gene Summary: This gene encodes a protein that possesses three distinct enzymatic activities, 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methenyltetrahydrofolate cyclohydrolase and 10-formyltetrahydrofolate synthetase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. The trifunctional enzymatic activities are conferred by two major domains, an aminoterminal portion containing the dehydrogenase and cyclohydrolase activities and a larger synthetase domain. [provided by RefSeq, Jul 2008]

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