

## Product datasheet for **MR211246L3V**

### **Mthfd1 (NM\_138745) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Mthfd1 (NM_138745) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Mthfd1
Synonyms:	DC; Dcs; E430024A07Rik; Mthfd
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_138745
ORF Size:	2808 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211246).
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. <a href="#">More info</a>
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:	<a href="#">NM_138745.1</a>
RefSeq Size:	3324 bp
RefSeq ORF:	2808 bp
Locus ID:	108156
UniProt ID:	<a href="#">Q922D8</a>
Cytogenetics:	12 C3



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**Gene Summary:**

This gene encodes a trifunctional cytoplasmic enzyme. The encoded protein functions as a methylenetetrahydrofolate dehydrogenase, a methenyltetrahydrofolate cyclohydrolase, and a formyltetrahydrofolate synthase. The encoded enzyme functions in de novo synthesis of purines and thymidylate and in regeneration of methionine from homocysteine. [provided by RefSeq, Oct 2009]