

Product datasheet for **RC208588L3V**

MTHFR (NM_005957) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MTHFR (NM_005957) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MTHFR
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_005957
ORF Size:	1968 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208588).
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_005957.2 , NP_005948.2
RefSeq Size:	6099 bp
RefSeq ORF:	1971 bp
Locus ID:	4524
UniProt ID:	P42898
Cytogenetics:	1p36.22
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Methane metabolism, One carbon pool by folate
MW:	74.4 kDa



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Gene Summary:

The protein encoded by this gene catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine. Genetic variation in this gene influences susceptibility to occlusive vascular disease, neural tube defects, colon cancer and acute leukemia, and mutations in this gene are associated with methylenetetrahydrofolate reductase deficiency.[provided by RefSeq, Oct 2009]