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Product datasheet for RC208128L3V

HMGCS2 (NM_005518) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	HMGCS2 (NM_005518) Human Tagged ORF Clone Lentiviral Particle
Symbol:	HMGCS2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_005518
ORF Size:	1524 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208128).
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_005518.2
RefSeq Size:	2477 bp
RefSeq ORF:	1527 bp
Locus ID:	3158
UniProt ID:	P54868
Cytogenetics:	1p12
Domains:	HMG_CoA_synt
Protein Families:	Druggable Genome

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Protein Pathways:	Butanoate metabolism, Metabolic pathways, PPAR signaling pathway, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Valine, leucine and isoleucine degradation
MW:	56.6 kDa
Gene Summary:	The protein encoded by this gene belongs to the HMG-CoA synthase family. It is a mitochondrial enzyme that catalyzes the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for various organs during times of carbohydrate deprivation, such as fasting. Mutations in this gene are associated with HMG-CoA synthase deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]