

### Product datasheet for RC228388L4

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## HMGCS2 (NM\_001166107) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** HMGCS2 (NM\_001166107) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: HMGCS2

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

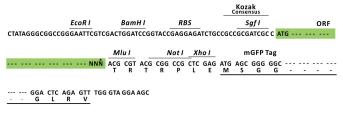
The ORF insert of this clone is exactly the same as(RC228388).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





\* The last codon before the Stop codon of the ORF.

**ACCN:** NM\_001166107

ORF Size: 1398 bp



#### HMGCS2 (NM\_001166107) Human Tagged Lenti ORF Clone - RC228388L4

**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 001166107.1</u>, <u>NP 001159579.1</u>

 RefSeq ORF:
 1401 bp

 Locus ID:
 3158

 UniProt ID:
 P54868

 Cytogenetics:
 1p12

**Protein Families:** Druggable Genome

Protein Pathways: Butanoate metabolism, Metabolic pathways, PPAR signaling pathway, Synthesis and

degradation of ketone bodies, Terpenoid backbone biosynthesis, Valine, leucine and

isoleucine degradation

**MW:** 52.48 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

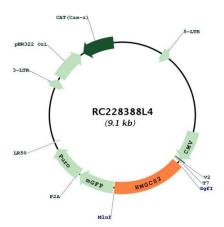
that provides lipid-derived energy for various organs during times of carbohydrate

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]



# **Product images:**



Circular map for RC228388L4