

# Recombinant Human HMGCS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HMGCS2-3611H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	HMGCS2 MS Standard C13 and N15-labeled recombinant protein (NP_005509) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	56.6 kDa
<b>AA Sequence</b>	MQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILA LEVYFPAQYVDQTDLEKYNNVEAGKYTVGLGQTRMGFCSVQEDINSLCLTVVQRLM ERIQLPWDSVGRLEVGTETIIDKSKAVKTVLMELFQDSGNTDIEGIDTTNACYGGTAS LFNAANWMESSWDGRYAMVVCGDIAVYPSGNARPTGGAGAVAMLIGPKAPLALE RGLRGTHMENVYDFYKPNLASEYPIVDGKLSIQCYLRALDRCYTSYRKKIQNQWKQ AGSDRPFTLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASSDTQTSLYKGLEAFG GLKLEDYTNKDLDKALLKASQDMFDKKTASLYLSTHNGNMYTSSLYGCLASLLSH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

HSAQELAGSRIGAFSYGSGLAASFFSFRVSQDAAPGSPLDKLVSSSTDLPKRLASRK  
 CVSPEEFTEIMNQREQFYHKVNFSPPGDTNSLFPGTWYLERVDEQHRRKYARRPV  
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** HMGCS2 3-hydroxy-3-methylglutaryl-CoA synthase 2 [ Homo sapiens (human) ]

**Official Symbol** HMGCS2

**Synonyms** HMGCS2; 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial); 3 hydroxy 3 methylglutaryl Coenzyme A synthase 2 (mitochondrial); hydroxymethylglutaryl-CoA synthase, mitochondrial; HMG-CoA synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial);

**Gene ID** 3158

**mRNA Refseq** NM\_005518

**Protein Refseq** NP\_005509

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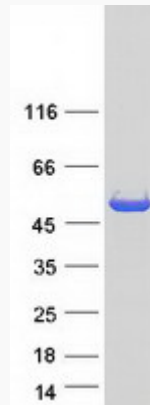
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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**MIM** 600234

**UniProt ID** P54868

**SDS-PAGE**



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