

## Product datasheet for **TP308128M**

### HMGC2 (NM\_005518) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial) (HMGC2), nuclear gene encoding mitochondrial protein, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC208128 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MQRLLPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILALEVYFPAQYVDQ  
TDLEKYNVVEAGKYTVGLGQTRMGFCSVQEDINSLCLTVVQRLMERIQLPWDSVGRLEVGTETIIDKSKA  
VKTVLMELFQDSGNTDIEGIDTTNACYGGTASLFNAANWMESSWDGRYAMVCGDIADVPSGNARPTGG  
AGAVAMLIGPKAPLALERGLRGTHMENVYDFYKPNLASEYPIVDGKLSIQCYLRALDRCYTSYRKKIQNQ  
WKQAGSDRPFTLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASSDTQTSLYKGLEAFGGLKLEDYTNK  
DLDKALLKASQDMFDKKTASLYLSTHNGNMYTSSLYGCLASLLSHHSAQELAGSRIGAFSYGSGLAASF  
FSFRVSDAAPGSPDKLVSSSTDLPKRLASRKCVSPEEFTEIMNQREQFYHKVNFSPPGDNTSLFPGTW  
YLERVDEQHRRKYARRPV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 52.3 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

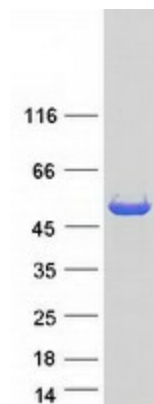
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005509</a>
<b>Locus ID:</b>	3158
<b>UniProt ID:</b>	<a href="#">P54868</a> , <a href="#">A0A140VIL2</a>
<b>RefSeq Size:</b>	2477
<b>Cytogenetics:</b>	1p12
<b>RefSeq ORF:</b>	1524
<b>Summary:</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.[provided by RefSeq, Oct 2009]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Butanoate metabolism, Metabolic pathways, PPAR signaling pathway, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Valine, leucine and isoleucine degradation

### Product images:



Coomassie blue staining of purified HMGCS2 protein (Cat# [TP308128]). The protein was produced from HEK293T cells transfected with HMGCS2 cDNA clone (Cat# [RC208128]) using MegaTran 2.0 (Cat# [TT210002]).