

## Product datasheet for TP309197

### HLCS (NM\_000411) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human holocarboxylase synthetase (biotin-(propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)) ligase) (HLCS), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209197 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDGMHEVGRDDPKAL  
G

EELKQRRGSASGSEPAAGSDRGGGPVEHYHLHLSSCHECLELENSTIESVKFASAENIPDLPYDYSSSLE  
SVADETSPEPERGRRVNLTKAPNILLVVGSDSQEALGRFHEVRSVLADCVDIDSYILYHLLDSALRDPW  
TDNCLLLVIATRESIPEDLYQKFMAVLSQGGKVLGLSSSFTFGGFQVTSKALHKTQNLVFSKADQSEV  
KLSVLSSGCRYQEGPVRLSPGRLQGHLENEKDRMIVHVPFGTRGGEAVLCQVHLELPPSSNIVQTPEDF  
NLLKSSNFRRYEVLEILTTLGLSCDMKQVPALTPYLLSAAEEIRDPLMQWLGKHVDSEGEIKSGQLSL  
RFVSSYVEVEITPSCIPVVTNMEAFSSEHFNLEIYRQNLQTKQLGKVLFAEVTPTMRLLDGLMFQTP  
QEMGLVIAARQTEGKGRGGNVWLSVGCALSTLLISIPRSQLGQRIPFVQHLSVAVVEAVRSIPEYQ  
DINLRVKWPNDIYSDLMKIGGVLVNSTLMGETFYILIGCGFNVTNSNPTICINDLITEYNKQKHAELKP  
LRADYLIARVVTVLEKLIKEFQDKGPNSVLPYRYWVHSGQQVHLGSAEGPKVSIVGLDDSGFLQVHQE  
GGEVTVHPDGNSFDMLRNLILPKRR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

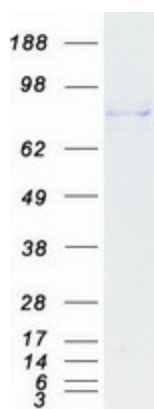
Tag:	C-Myc/DDK
Predicted MW:	80.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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_000402</a>
<b>Locus ID:</b>	3141
<b>UniProt ID:</b>	<a href="#">P50747</a>
<b>RefSeq Size:</b>	6019
<b>Cytogenetics:</b>	21q22.13
<b>RefSeq ORF:</b>	2178
<b>Synonyms:</b>	HCS
<b>Summary:</b>	This gene encodes an enzyme that catalyzes the binding of biotin to carboxylases and histones. The protein plays an important role in gluconeogenesis, fatty acid synthesis and branched chain amino acid catabolism. Defects in this gene are the cause of holocarboxylase synthetase deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified.[provided by RefSeq, Jun 2011]
<b>Protein Pathways:</b>	Biotin metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified HLCS protein (Cat# TP309197). The protein was produced from HEK293T cells transfected with HLCS cDNA clone (Cat# [RC209197]) using MegaTran 2.0 (Cat# [TT210002]).