

Product datasheet for **SC118803**

HMGCS1 (NM_002130) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMGCS1 (NM_002130) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGCS1
Synonyms:	HMGCS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118803 sequence for NM_002130 edited (data generated by NextGen Sequencing)

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ATGCCTGGATCACTTCCTTTGAATGCAGAAGCTTGCTGGCCAAAAGATGTGGGAATTGTT
GCCCTTGAGATCTATTTTCTTCTCAATATGTTGATCAAGCAGAGTTGGAAAAATATGAT
GGTGTAGATGCTGGAAAGTATACCATTGGCTTGGGCCAGGCCAAGATGGGCTTCTGCACA
GATAGAGAAGATATTAACCTCTCTTTGCATGACTGTGGTTGAGAATCTTATGGAGAGAAAT
AACCTTTCTATGATTGCATTGGGCGGCTGGAAGTTGGAACAGAGACAATCATCGACAAA
TCAAAGTCTGTGAAGACTAATTTGATGCAGCTGTTTGAAGAGTCTGGGAATACAGATATA
GAAGGAATCGACACAACCTAATGCATGCTATGGAGGCACAGCTGCTGTCTTCAATGCTGTT
AACTGGATTGAGTCCAGCTCTTGGGATGGACGGTATGCCCTGGTAGTTGCAGGAGATATT
GCTGTATATGCCACAGGAAATGCTAGACCTACAGGTGGAGTTGGAGCAGTAGCTCTGCTA
ATTGGGCCAAATGCTCCTTAATTTTTGAACGAGGGCTTCGTGGGACACATATGCAACAT
GCCTATGATTTTTACAAGCCTGATATGCTATCTGAATATCCTATAGTAGATGGAAAACCTC
TCCATACAGTGTACCTCAGTGCATTAGACCGCTGCTATTCTGTCTACTGCAAAAAGATC
CATGCCCAGTGGCAGAAAGAGGGAAATGATAAAGATTTTACCTTGAATGATTTTGGCTTC
ATGATCTTTCACCTACCATATTGTAACCTGGTTGAGAAATCTCTAGCTCGGATGTTGCTG
AATGACTTCCTTAATGACCAGAATAGAGATAAAAAATAGTATCTATAGTGGCTGGAAGCC
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TCACCTCAGCAATTAGCAGGGAAGAGAATTGGAGTGTTTTCTTATGGTTCTGGTTGGCT
GCCACTGTACTCTCTTAAAGTCACACAAGATGCTACACCGGGTCTGCTCTTGATAAAA
ATAACAGCAAGTTTATGTGATCTTAAATCAAGGCTTGATTCAGAAGTGGTGTGGCACCAC
GATGTCTTCGCTGAAAACATGAAGCTCAGAGAGGACACCCATCATTTGGTCAACTATATT
CCCCAGGGTTCAATAGATTCACTCTTTGAAGGAACGTGGTACTTAGTTAGGGTGGATGAA
AAGCACAGAAGAACTTACGCTCGGCTCCCACTCCAAATGATGACACTTTGGATGAAGGA
GTAGGACTTGTGCATTCAAACATAGCAACTGAGCATATTCGAAGCCCTGCCAAGAAAGTA
CCAAGACTCCCTGCCACAGCAGCAGAACCTGAAGCAGCTGTCATTAGTAATGGGGAACAT
TAA
    
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Clone variation with respect to NM_002130.6

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002130 unedited
GTGCATAATTTGTAATACGAACCTACTATAGGGCGGCCGGAATCGGCACGAGGCCTCGT
GCCGAATTCGGCACGAGGCGAAGGGGAGGCGCCGCGGACTGTCTTTCTGGGCTCACTCC
CTTTCCTCTGCTGCCGCTCGTCAAGCTGCTCTTTACCATGCCTGGATCACTTCCTTT
GAATGCAGAAGCTTGTGCGCCAAAAGATGTGGGAATTGTTGCCCTTGAGATCTATTTTCC
TTCTCAATATGTTGATCAAGCAGAGTTGGAAAAATATGATGGTGTAGATGCTGGAAAGTA
TACCATTGGCTTGGGCCAGGCCAAGATGGGCTTCTGCACAGATAGAGAAGATATTAACCTC
TCTTTCATGACTGTGGTTGAGAATCTTATGGAGAGAAATAACCTTTCCTATGATTGCAT
TGGGCGGCTGGAAGTTGGAACAGAGACAATCATCGACAAAATCAAAGTCTGTGAAGACTAA
TTTGATGCAGCTGTTTGAAGAGTCTGGGAATACAGATATAGAAGGAATCGACACAACATA
TGCATGCTATGGAGGCACAGCTGCTGTCTTCAATGCTGTTAACTGGATTGAGTCCAGCTC
TTGGGATGGACGGTATGCCCTGGTAGTTGCAGGAGATATTGCTGTATATGCCACAGGAAA
TGCTAGACCTACAGGTGGAGTTGGAGCAGTAGCTCTGCTAATTGGCCAAATGCTCCTTT
AATTTTTGAACGANGGCTTCGTGNGACACATATGCCACATGCCTATGATTNTTACAAGCC
TGATATGCTATCTGAATATCCTATAGTAGATGGAAAACCTCCTACAGTGTACCTCAGT
GCATTAGCCGCTGCTATCCTGTCTACTGCAAAAAGACCATGCCCAGTGCCAGAAAGAAGG
GAATGATACAGATTTACCCTGCATGAATNTGGGCTCAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002130 unedited CCGCGGTCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAGGATTTATCAATTTTA GAAAAAGGGCATGTTTGTGTGCTATTTTCAAAGGTTTGTGCGTATCACATTTTACCAC ATTTTACCCCAATTTTACCACACTGGGGAATGTTGTCACATTCGCCAAGCTAGAAATGTT TTCCAAAAACCACAGGTAATTTCTGTAATCTTGTGTTCAAAGTACAAAATCTTACATG TTAATAAATTTTTAATTGGAGATTAGTACCTCTGCTTTCTTCTGACAGAAGTACACAAT TCATTATACCATGTTTAAAAACCAACATCATGCATACAAATGGCCAAAGAGGTATGAAG TTTTACAGAGCCCTTAACATCATTTCGAGTACATTTGGCATTGGCCAGACCACAACAGGAA GCATGTCAGCAAATAGAGCAAAGAGACTNTCCCAAGTACACGATAGTCATCCAGGCTCCA TGTGAGTACATAAAAAATTTACATAACATGTAATCCTTTAAAAATTATCCCCAGATATCCC ATTCTTCAACTGTTCCCATACCCNCACCCCATGCCACCCCAACCTTGAGTCCTTGC CCCTCACAGAGTATCTTTATTGTTCCCATTAATGACAGCTGCTTTCAGTTCGCTGCT CTGTGGCAGGGAGTCTGGTACTTTCCTGCCACGGCTCGGAATATCTCAGCTGCTATTTT GAATGCCAATTCCTACTCTTTTCCAAGTGCATCTTTGGAGTGGACCCCAACCGTAGTT CTTCTGTGCCTTTCATCCCTTAACTAAAACCCACGTTCTTAAAAGAAGAATCTTTGA CCTGGGGATAATACTACCAATGATGGCGGCCTTTTGGATTTTGTAAAAGCAAACATT TGTGCCCAACACTCTGATTAAGCCTTGTAAAATAATAACTTTTCGTATTAAGAGAGACA ACCGTGGACACCTTTGTTACTTCAAAGGACATAGGGCCCCCCCCCACCTTA
Restriction Sites:	NotI-NotI
ACCN:	NM_002130
Insert Size:	2260 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	NM_002130.4 , NP_002121.3
RefSeq Size:	3421 bp
RefSeq ORF:	1563 bp
Locus ID:	3157
UniProt ID:	Q01581
Cytogenetics:	5p12
Domains:	HMG_CoA_synt

Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Valine, leucine and isoleucine degradation
Gene Summary:	This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase.[UniProtKB/Swiss-Prot Function]