OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC330014

HLCS (NM_001242785) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLCS (NM_001242785) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLCS
Synonyms:	HCS
Vector:	pCMV6-Entry (PS100001)

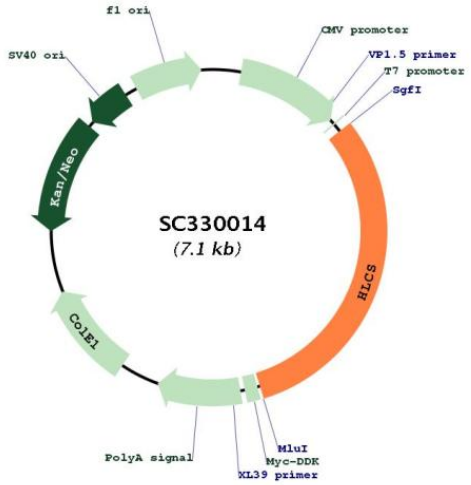
Fully Sequenced ORF:

>SC330014 representing NM_001242785.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGAAGATAGACTCCACATGGATAATGGACTGGTACCCCAAAAGATTGTGTCGGTGCACTTGCAGGAC
TCCACTCTGAAGGAAGTTAAGGATCAGGTCTCAAACAAGCAAGCCCAGATCCTAGAGCCGAAGCCTGAA
CCTTCTCTTGAGATTAAGCCTGAGCAGGACGGTATGGAGCATGTTGGCAGAGATGACCCAAAGGCTCTT
GGTGAAGAACCCAAACAAAGGAGAGGCAGTGCCTCTGGGAGTGAGCCTGCTGGGGACAGTGACAGGGGA
GGGGGCCCCGTTGAGCATTATCACCTCCATCTGTCTAGTTGCCACGAGTGTCTGGAACTTGAGAACAGC
ACCATTGAGTCAGTCAAGTTTGCGTCTGCCGAGAACATTCCAGACCTTCCCTACGATTATAGCAGCAGT
TTGGAGAGTGTTGCTGATGAGACCTCCCCCGAAAGAGAAGGGAGGAGAGTCAACCTCACGGGAAAGGCA
CCCAACATCCTCCTCTATGTGGGCTCCGACTCCCAGGAAGCCCTCGGCCGGTTCCACGAGGTCCGGTCT
GTGCTGGCCGACTGTGTGGACATTGACAGTTATATTCTCTACCACCTGCTGGAGGACAGTGCTCTCAGA
GACCCGTGGACGGACAACTGTCTGCTGTTGGTCATTGCTACCAGGGAGTCCATTCCCGAAGACCTGTAC
CAGAAGTTCATGGCCTATCTTTCTCAGGGAGGGAAGGTGTTGGGCCTGTCTTCATCCTTCACCTTTGGT
GGCTTTCAGGTGACAAGCAAGGGTGCACTGCACAAGACAGTCCAGAACTTGGTTTTCTCCAAGGCTGAC
CAGAGCGAGGTGAAGCTCAGCGTCTTGAGCAGTGGCTGCAGGTACCAGGAAGGCCCCGTCCGGCTCAGC
CCCGGCAGGCTCCAGGGCCACCTGGAGAATGAGGACAAGGACAGGATGATTGTGCATGTGCCTTTTGGA
ACTCGCGGGGGAGAAGCTGTTCTTTGCCAGGTGCACTTAGAACTACCTCCCAGCTCCAACATAGTGCAA
ACTCCAGAAGATTTTAACTTGCTCAAGTCAAGCAATTTTAGAAGATACGAAGTCCTTAGAGAGATTCTG
ACAACCCTTGGCCTCAGCTGTGACATGAAACAAGTTCCTGCCTTAACTCCTCTTTACTTGCTGTCAGCT
GCGGAGGAAATCAGGGATCCTCTTATGCAGTGGCTTGGGAAACATGTGGACTCCGAGGGAGAAATAAAA
TCCGGCCAGCTCTCTCTTAGATTTGTTTCATCCTACGTGTCTGAAGTAGAAATAACCCCATCTTGTATA
CCTGTGGTGACCAACATGGAGGCCTTCTCATCAGAACATTTCAACTTAGAGATCTATCGCCAAAATCTG
CAGACCAAGCAGTTGGGGAAAGTAATTTTGTTTGCCGAAGTGACCCCCACAACGATGCGTCTCCTGGAT
GGGCTGATGTTTCAGACACCGCAGGAAATGGGCTTAATAGTGATCGCGGCCCGGCAGACCGAGGGCAAA
GGACGGGGAGGGAATGTGTGGCTGAGCCCTGTGGGATGTGCTCTTTCTACTCTGCTCATCTCCATTCCA
CTGAGATCCCAGCTGGGACAGAGGATCCCGTTTGTCCAGCATCTGATGTCCGTGGCTGTCGTGGAAGCA
GTGAGGTCCATTCCCGAGTATCAGGATATCAACTTACGAGTGAAGTGGCCCAACGATATTTATTACAGT
GACCTCATGAAGATCGGCGGAGTTCTGGTTAACTCAACACTCATGGGAGAAACATTTTATATACTTATT
GGCTGTGGATTTAATGTGACTAACAGTAACCCTACCATCTGCATCAACGACCTCATCACAGAATACAAT
AAACAACACAAGGCAGAACTGAAGCCCTTAAGAGCCGATTATCTCATCGCCAGAGTCGTGACTGTGCTG
GAGAAACTGATCAAAGAGTTTCAGGACAAAGGGCCCAACAGCGTCCTTCCCCTTTATTACCGATACTGG
GTCCACAGTGGTCAGCAAGTCCATCTGGGCAGCGCAGAGGGACCAAAGGTGTCCATCGTTGGCCTGGAC
GATTCTGGCTTCCTCCAGGTTCACCAGGAGGGCGGCGAGGTTGTGACTGTGCACCCGGACGGCAACTCC
TTCGACATGCTGAGAAACCTCATCCTCCCCAAACGGCGGTAA

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001242785
Insert Size:	2181 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:	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_001242785.1
RefSeq Size:	6112 bp
RefSeq ORF:	2181 bp
Locus ID:	3141
UniProt ID:	P50747
Cytogenetics:	21q22.13
Protein Pathways:	Biotin metabolism, Metabolic pathways
MW:	80.8 kDa

Gene Summary: 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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.