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 SC119915

HLCS (NM_000411) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLCS (NM_000411) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLCS
Synonyms:	HCS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC119915 sequence for NM_000411 edited (data generated by NextGen Sequencing)

ATGGAAGATAGACTCCACATGGATAATGGACTGGTACCCCAAAAGATTGTGTCGGTGCAC
TTGCAGGACTCCACTCTGAAGGAAGTTAAGGATCAGGTCTCAAACAAGCAAGCCCAGATC
CTAGAGCCGAAGCCTGAACCTTCTCTTGAGATTAAGCCTGAGCAGGACGGTATGGAGCAT
GTTGGCAGAGATGACCCAAAGGCTCTTGGTGAAGAACCCAAACAAAGGAGAGGCAGTGCC
TCTGGGAGTGAGCCTGCTGGGGACAGTGACAGGGGAGGGGGCCCCGTTGAGCATTATCAC
CTCCATCTGTCTAGTTGCCACGAGTGTCTGGAACTTGAGAACAGCACCATTGAGTCAGTC
AAGTTTGCGTCTGCCGAGAACATTCCAGACCTTCCCTACGATTATAGCAGCAGTTTGGAG
AGTGTTGCTGATGAGACCTCCCCCGAAAGAGAAGGGAGGAGAGTCAACCTCACGGGAAAG
GCACCCAACATCCTCCTCTATGTGGGCTCCGACTCCCAGGAAGCCCTCGGCCGGTTCCAC
GAGGTCCGGTCTGTGCTGGCCGACTGTGTGGACATTGACAGTTATATTCTCTACCACCTG
CTGGAGGACAGTGCTCTCAGAGACCCGTGGACGGACAACTGTCTGCTGTTGGTCATTGCT
ACCAGGGAGTCCATTCCCGAAGACCTGTACCAGAAGTTCATGGCCTATCTTTCTCAGGGA
GGGAAGGTGTTGGGCCTGTCTTCATCCTTCACCTTTGGTGGCTTTCAGGTGACAAGCAAG
GGTGCACTGCACAAGACAGTCCAGAACTTGGTTTTCTCCAAGGCTGACCAGAGYGAGGTG
AAGCTCAGCGTCTTGAGCAGTGGCTGCAGGTACCAGGAAGGCCCCGTCCGGCTCAGCCCC
GGCAGGCTCCAGGGCCACCTGGAGAATGAGGACAAGGACAGGATGATTGTGCATGTGCCT
TTTGGAACTCGCGGGGGAGAAGCTGTTCTTTGCCAGGTGCACTTAGAACTACCTCCCAGC
TCCAACATAGTGCAAACTCCAGAAGATTTTAACTTGCTCAAGTCAAGCAATTTTAGAAGA
TACGAAGTCCTTAGAGAGATTCTGACAACCCTTGGCCTCAGCTGTGACATGAAACAAGTT
CCTGCCTTAACTCCTCTTTACTTGCTGTCAGCTGCGGAGGAAATCAGGGATCCTCTTATG
CAGTGGCTTGGGAAACATGTGGACTCCGAGGGAGAAATAAAATCCGGCCAGCTCTCTCTT
AGATTTGTTTCATCCTACGTGTCTGAAGTAGAAATAACCCCATCTTGTATACCTGTGGTG
ACCAACATGGAGGCCTTCTCATCAGAACATTTCAACTTAGAGATCTATCGCCAAAATCTG
CAGACCAAGCAGTTGGGGAAAGTAATTTTGTTTGCCGAAGTGACCCCCACAACGATGCGT
CTCCTGGATGGGCTGATGTTTCAGACACCGCAGGAAATGGGCTTAATAGTGATCGCGGCC
CGGCAGACCGAGGGCAAAGGACGGGGAGGGAATGTGTGGCTGAGCCCTGTGGGATGTGCT
CTTTCTACTCTGCTCATCTCCATTCCACTGAGATCCCAGCTGGGACAGAGGATCCCGTTT
GTCCAGCATCTGATGTCCGTGGCTGTCGTGGAAGCAGTGAGGTCCATTCCCGAGTATCAG
GATATCAACTTACGAGTGAAGTGGCCCAACGATATTTATTACAGTGACCTCATGAAGATC
GGCGGAGTTCTGGTTAACTCAACACTCATGGGAGAAACATTTTATATACTTATTGGCTGT
GGATTTAATGTGACTAACAGTAACCCTACCATCTGCATCAACGACCTCATCACAGAATAC
AATAAACAACACAAGGCAGAACTGAAGCCCTTAAGAGCCGATTATCTCATCGCCAGAGTC
GTGACTGTGCTGGAGAAACTGATCAAAGAGTTTCAGGACAAAGGGCCCAACAGCGTCCTT
CCCCTTTATTACCGATACTGGGTCCACAGTGGTCAGCAAGTCCATCTGGGCAGCGCAGAG
GGACCAAAGGTGTCCATCGTTGGCCTGGACGATTCTGGCTTCCTCCAGGTTCACCAGGAG
GGCGGCGAGGTTGTGACTGTGCACCCGGACGGCAACTCCTTCGACATGCTGAGAAACCTC
ATCCTCCCCAAACGGCGGTAA

Clone variation with respect to NM_000411.6
834 c=>y

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000411 unedited
GTTCACATTCGGCACCAGGACGGGGCTGGGGCGCGGGCAGGATTTGGGGCTGCGCCGAGG
GCGTCCCGACCTGGCCCTTTGCCACGGTAGGTTCCGGCTCCCATGCCTCCGCTGCCATCT
GCGCTGTCCTTGGCGACTACGCCTTCACCCCCCTGGGTGCGTTTCAGCGGTCCCGGAGCC
TGGCGGGAGCGGGGCCAGGAGCGCTCCGCGGCCGGTATCAGGCCTGCAGTCCATTGAAGA
CTTGAACAAGTGGGCCCTATTTCTTGTGTCTCCTTTTATACTTGAAGCAGAACACATAGC
ATTTGTGACGGAGAGCATTTGGGTACAAAGTGAGAATTTACAGAGATCATCCTCTTCAGA
AACAGTTCGGTTTTTGCCCACTAGGGATGATGTGGTTTCTCATGAGGTTACTTGCTCTAA
AGGACTTTATATTTTGGAACCATAAGAGCACCCTTGTGGCCCAGGCACTTTATGGATGAT
CCCTTTTAGTGCTCCCAGTAACCTTCCAAGATTGTCAAGTGGTCAGACTGTTGTTTGCCA
TTAGCTTGCAGACCTGGGGATCCTTATCGGCTAATTGCTGAAGCAAGTGTGGACAACTTC
AGCAAGCTGGGGGTGGCGTTCATGGAAGATAGACTCCACATGGATAATGGACTGGTACCC
CAAAAGATTGTGTCGGTGCACTTGCAGGACTCCACTCTGAAGGAAGTTAAGGATCAGGTC
TCAAACAAGCAAGCCCAGATCCTAGAGCCGAAGCCTGAACCTTCTCTTGAGATTAAGCCT
GAGCAGGACGGTATGGAGCATGTTGGCAGAGATGACCCAAAGGCTCTTGGTGAAGACCCC
AAACCAAGGAGAGCAGTGCCTCTGGGAGTGACCTGCTGGGACAGTGACAGGGAAGGGGGC
CCCGTTGAGCATATCACCCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000411 unedited
GACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAACAAATGAATTGGAG
GAAAAGAAAATTCACCTACAACTCTAAATTAGATTTCCAGATGCATGGGCACGGACAGGC
AGCCGCGTCTCGGGGACGCCCGGCATTACCGCCGTTTGGGGAGGATGAGGTTTCTCAGCA
TGTCGAAGGAGTTGCCGTCCGGGTGCACAGTCACAACCTCGCCGCCCTCCTGGTGAACCT
GGAGGAAGCCAGAATCGTCCAGGCCAACGATGGACACCTTTGGTCCCTCTGCGCTGCCCA
GATGGACTTGCTGACCACTGTGGACCCAGTATCGGTAATAAAGGGGAAGGACGCTGTTGG
GCCCTTTGTCCTGAAACTCTTTGATCAGTTTCTCCAGCACAGTCACGACTCTGGCGATGA
GATAATCGGCTCTTAAGGGCTTCAGTTCTGCCTTGTGTTGTTTATTGTATTCTGTGATGA
GGTCGTTGATGCAAATGGTAGGGTTACTGTTAGTCACATTAAATCCACAGCCAATAAGTA
TATAAAATGTTTCTCCCATGAGTGTTGAGTTAACCAGAACTCCGCCGATCTTCATGAGGT
CACTGGTATAAATATCGTTGGGCCACTTCACTCGTAAGTTGATATCCTGATACTNCGGAA
TGGACCTCACTGCTTCCACGACAGCCACGGGACATCAGATGCTGGACAAACGGGATCCTC
TGTCCCAGCTGGGATCTCATTGGGATGGAGATGAGCANAGTNAAAAGAGCCATTCCACAG
GGCTTAACCACCATTCCCTCCCCGTCCTTTTGCCTCGGTCTGCCGGGCCGGGATCCTTAT
TAAACCATTTCTGCGGGGTTTGAAACATCACCCATCCCAGAACCCTTCTTGGGGGGGTAC
TTTGGAAAAAATATACTTTCCCACTGCTGGGCTGCATATTA

Restriction Sites: NotI-NotI

ACCN: NM_000411

Insert Size: 3100 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_000411.4, NP_000402.3
RefSeq Size:	5991 bp
RefSeq ORF:	2181 bp
Locus ID:	3141
UniProt ID:	P50747
Cytogenetics:	21q22.13
Domains:	BPL_C, BPL_LipA_LipB
Protein Pathways:	Biotin metabolism, Metabolic pathways
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 (1) is the shortest transcript. Variants 1, 2 and 3 encode the same protein.