

Product datasheet for **RC233103**

HLCS (NM_001242784) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLCS (NM_001242784) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HLCS
Synonyms:	HCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC233103 representing NM_001242784
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATAGACTCCACATGGATAATGGACTGGTACCCCAAAGATTGTGTCGGTGCCTTGCAGGACT
 CCACTCTGAAGGAAGTTAAGGATCAGGTCTCAAACAAGCAAGCCAGATCCTAGAGCCGAAGCCTGAACC
 TTCTCTTGAGATTAAGCCTGAGCAGGACGGTATGGAGCATGTTGGCAGAGATGACCCAAAGGCTCTTGTT
 GAAGAACCCAAACAAGGAGAGGAGCAGTGCCTCTGGGAGTGAAGCCTGCTGGGGACAGTGACAGGGGAGGGG
 GCCCGTTGAGCATTATCACCTCCATCTGTCTAGTTGCCACGAGTGTCTGGAACCTGAGAACAGCACCAT
 TGAGTCAGTCAAGTTTTCGTCTGCCGAGAACATCCAGACCTCCCTACGATTATAGCAGCAGTTTGGAG
 AGTGTGTGATGAGACCTCCCCGAAAGAGAAGGGAGGAGTCAACCTCACGGGAAAGGCACCCAACA
 TCCTCCTCTATGTGGCTCCGACTCCAGGAAGCCCTCGGCCGGTCCACGAGGTCGGTCTGTGCTGGC
 CGACTGTGTGGACATTGACAGTTATATTCTCTACCACCTGCTGGAGGACAGTGTCTCAGAGACCCGTGG
 ACGGACAACCTGTCTGCTGTTGGTCAATTGCTACCAGGGAGTCCATCCCGAAGACCTGTACCAAGAAGTTCA
 TGGCCTATCTTTCTCAGGGAGGGAAAGGTGTTGGGCCTGTCTTCATCCTTACCTTTGGTGGCTTTCAGGT
 GACAAGCAAGGGTGCCTGCACAAGACAGTCCAGAACCTGGTTTTCTCCAAGGCTGACCAGAGTGAGGTG
 AAGCTCAGCGTCTTGAGCAGTGGCTGCAGGTACCAGGAAGGCCCGTCCGGCTCAGCCCCGGCAGGCTCC
 AGGGCCACCTGGAGAATGAGGACAAGGACAGGATGATTGTGCATGTGCCTTTTGGAACTCGCGGGGAGAG
 AGCTGTTCTTTGCCAGGTGCCTTAGAACTACCTCCAGCTCCAACATAGTGAACTCCAGAAGATTTT
 AACTTGCTCAAGTCAAGCAATTTTAGAAGATACGAAGTCTTAGAGAGATTCTGACAACCTTGGCCTCA
 GCTGTGACATGAAACAAGTTCTGCCTTAACTCCTTTACTTGTGTCAGCTGCGGAGGAAATCAGGGA
 TCCTCTTATGCAGTGGCTTGGGAAACATGTGGACTCCGAGGGAGAAATAAATCCGGCCAGCTCTCTCTT
 AGATTTGTTTCATCCTACGTGTCTGAAGTGAATAAACCCTCTTGTATACCTGTGGTACCAACATGG
 AGGCCTTCTCATCAGAACATTTCAACTTAGAGATCTATCGCCAAAATCTGCAGACCAAGCAGTTGGGGAA
 AGTAATTTTGTGGCCGAAGTGACCCCCACAACGATGCGTCTCCTGGATGGGCTGATGTTTCAGACACCG
 CAGGAAATGGGCTTAATAGTGATCGCGGCCGAGACCAGGGCAAAGGACGGGAGGGAAATGTGTGGC
 TGAGCCCTGTGGGATGTGCTCTTCTACTCTGCTCATCTCCATTCCACTGAGATCCAGCTGGGACAGAG
 GATCCCGTTTGTCCAGCATCTGATGTCCGTGGCTGTGCTGGAAGCAGTGAGGTCCATTCCCGAGTATCAG
 GATATCAACTTACGAGTGAAGTGGCCCAACGATATTTATTACAGTGACCTCATGAAGATCGCGGAGTTC
 TGGTTAACTCAACTCATGGGAGAAACATTTTATATACTTATTGGCTGTGGATTAATGTGACTAACAG
 TAACCCTACCATCTGCATCAACGACCTCATCACAGAATAACAATAACAACAAGGCAGAAGTGAAGCCC
 TTAAGAGCCGATTATCTCATCGCCAGAGTCGTGACTGTGCTGGAGAACTGATCAAAGAGTTTCAGGACA
 AAGGGCCCAACAGCGTCTTCCCCTTTATTACCGATACTGGGTCCACAGTGGTCAGCAAGTCCATCTGGG
 CAGCGCAGAGGGACCAAGGTGTCCATCGTTGGCCTGGACGATTCTGGCTTCTCCAGGTTACACAGGAG
 GGCGGCGAGGTTGTGACTGTGCACCCGGACGGCAACTCCTTCGACATGCTGAGAACTCATCTCCCA
 AACGGCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233103 representing NM_001242784
Red=Cloning site Green=Tags(s)

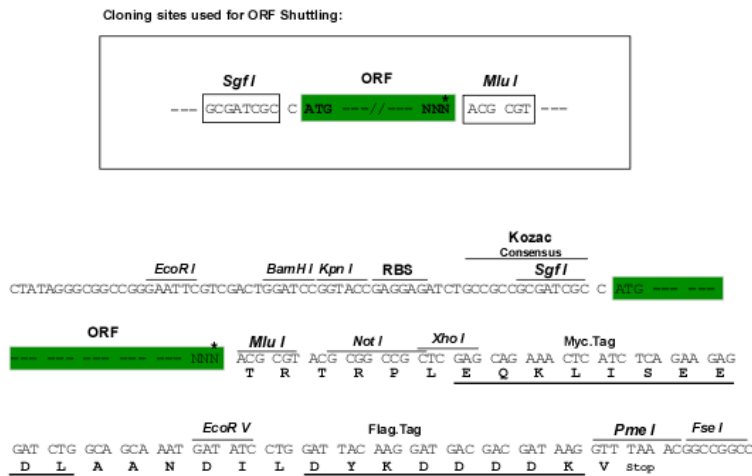
```
MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDGMHEVGRDDPKALG
EELPKQRRGSASGSEPAAGSDRGGGPVEHYHLHLSSCHECLELENSTIESVKFASAENIPDLPYDYSSSLE
SVADETSPEREGRRVNLTKAPNILLVYGSQSQEALGRFHEVRSVLADCVIDSYILYHLLSALRDPW
TDNCLLLVIATRESIPEDLYQKFMAYLSQGGKVLGLSSSFTFGGFQVTSKGALHKTQNLVFSKADQSEV
KLSVLSGGCRYQEGPVRLLSPGRLQGHLENDKDRMIVHVPFGTRGGEAVLCQVHLELPPSSNIVQTPEDF
NLLKSSNFRRYEVLRILTTLGLSCDMKQVPALTPLYLLSAAEEIRDPLMQWLGHVDSEGEIKSGQLSL
RFVSSYVSEVEITPSCIPVVTNMEAFSSEHFNLEIYRQNLQTKLQKLVILFAEVTPTMRLLDGLMFQTP
QEMGLIVIAARQTEGKGRGGNVWLSPVGCALSTLLISIPQRSQGLQRIPIFVQHLMSVAVVEAVRSIPEYQ
DINLRVKWPNDIYSDLMKIGGVLVNSTLMGETFYILIGCGFNVTNSNPTICINDLITEYNKQHKAEKLP
LRADYL IARVVTVLEKLIKEFQDKGPNVLPYRYWVHSGQQVHLGSAEGPKVSIIVGLDDSGFLQVHQE
GGEVVTVHPDGNISFDMLRNLILPKRR
```

TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6155_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001242784

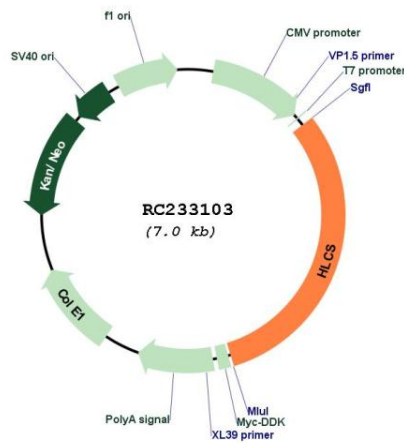
ORF Size: 2178 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001242784.1, NP_001229713.1</u>
RefSeq Size:	6953 bp
RefSeq ORF:	2181 bp
Locus ID:	3141
UniProt ID:	<u>P50747</u>
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]

Product images:



Circular map for RC233103