

Product datasheet for **RC233104**

HLCS (NM_001242785) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | HLCS (NM_001242785) 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) |



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**ORF Nucleotide
Sequence:**

>RC233104 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

RCATGGAAGATAGACTCCACATGGATAATGGACTGGTACCCCAAAGATTGTGTCCGTGCACTTGCAGGA
 CTCCTACTCTGAAGGAAGTTAAGGATCAGGTCTCAAACAAGCAAGCCAGATCCTAGAGCCGAAGCCTGAA
 CCTTCTCTTGAGATTAAGCCTGAGCAGGACGGTATGGAGCATGTTGGCAGAGATGACCAAAGGCTCTTG
 GTGAAGAACCACAAAGGAGAGGCGAGTGCCTCTGGGAGTGAGCCTGCTGGGGACAGTGACAGGGGAGG
 GGGCCCGTTGAGCATTACACCTCCATCTGTCTAGTTGCCACGAGTGTCTGGAACCTTGAGAACAGCACC
 ATTGAGTCAGTCAAGTTTGGCTGCTGCCGAGAACATTCCAGACCTTCCCTACGATTATAGCAGCAGTTTGG
 AGAGTGTGTCTGATGAGACCTCCCCGAAAGAGAAGGGAGGAGAGTCAACCTCACGGGAAAGGCACCCAA
 CATCCTCCTCTATGTGGCTCCGACTCCAGGAAGCCCTCGGCCGGTCCACGAGGTCCGGTCTGTGCTG
 GCCGACTGTGTGGACATTGACAGTTATATTCTCTACCACCTGCTGGAGGACAGTGTCTCAGAGACCCGT
 GGACGGACAACCTGTCTGCTGTTGGTCATTGCTACCAGGGAGTCCATTCCCGAAGACCTGTACCAGAAGTT
 CATGGCCATCTTTCTCAGGGAGGGAAGGTGTTGGGCCTGTCTTCATCCTTACCTTTGGTGGCTTTCAG
 GTGACAAGCAAGGGTGCCTGCACAAGACAGTCCAGAACTTGGTTTTCTCCAAGGCTGACCAGAGTGAGG
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 TTAACCTGTCTCAAGTCAAGCAATTTAGAAGATACGAAGTCTTAGAGAGATTCTGACAACCTTGGCCT
 CAGCTGTGACATGAAACAAGTTCTGCCTTAACCTCTTACTTGTCTGTCAGTGCAGTCCGGGAAATCAGG
 GATCCTCTTATGCAGTGGCTTGGGAAACATGTGGACTCCGAGGGAGAAATAAAATCCGGCCAGCTCTCTC
 TTAGATTTGTTTCATCCTACGTGTCTGAAGTAGAAATAACCCCATCTTGTATACCTGTGGTGACCAACAT
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 CGCAGGAAATGGGCTTAATAGTGATCGCGGCCCGCAGACCGAGGGCAAAGGACGGGGAGGGAATGTGTG
 GCTGAGCCCTGTGGATGTGCTTTTCTACTCTGCTCATCTCCATTCCACTGAGATCCCAGCTGGGACAG
 AGGATCCCGTTTGTCCAGCATCTGATGTCCGTGGCTGTCGTGGAAGCAGTGAGGTCCATTCCCGAGTATC
 AGGATATCAACTACGAGTGAAGTGGCCCAACGATATTTATTACAGTGACCTCATGAAGATCGGCGGAGT
 TCTGGTTAACTCAACACTCATGGGAGAAACATTTATATACTTATTGGCTGTGGATTAATGTGACTAAC
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 CAAAGGGCCCAACAGCGTCTTCCCCTTATTACCGATACTGGGTCCACAGTGGTCAGCAAGTCCATCTG
 GGCAGCGCAGAGGGACCAAAGGTGTCCATCGTTGGCCTGGACGATTCTGGCTTCTCCAGGTTACCAGG
 AGGGCGCGAGGTTGTGACTGTGCACCCGGACGGCAACTCCTTCGACATGCTGAGAAACCTCATCTCC
 CAAACGGCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233104 protein sequence
Red=Cloning site Green=Tags(s)

XWKIDSTWIMDWYPKRLCRCTCRTP***R**KLRIRSQTSKPRS*SRSLNLLLRLSLSRTVWSMLAEMTQRLL
 VKNPNKGEAVPLGVSLGLTGTGEGAPLSIITSICLVATSVWNLRTAPLSQSSLRLPRTFQTFPTIIAAVW
 RVLLMRPPPKEKGGESTSRERHPTSSSMWAPT**P**RKPSAGSTRSGLCWPTVWTLTVIFSTTCWRTVLSETR
 GRTTVCCWSLLPGSPFPK**T**CTRSSWIFLREGRCWACLHPSPLVAFR***Q**ARVHCTRQSRWFSPRLTRVR
 *SSAS*AVAAGTRKAPSGSAPAGSRATWRMRTRTG***L**CMCLLELAGEKLFFARCT***N**YLPAPT***C**KLQKI
 LTCSSQAILEDTKSLERF***Q**PLASAVT***N**KFLP***L**LFTCCQLRRKSGILLCSGLGNMWT**P**REK***N**PASSL
 LDLFHPTCLK***K*****P**HLVYLW***P**TWRPSHQ**N**IST***R**SI**A**KICRPSSWGK***F**CLPK***P**PQRCVSWMG***C**FRH
 RRKWA***SRPGR**P**RAKDGE**G**MCG***A**LWDVL**F**LLC**S**SPFH***D**PSWDRGSRL**S**SI***C**PWLSWKQ***G**PFPSI
 RISTYE***S**GP**T**IFITVTS***R**SAEFWL**T**QHSWEKHFIYLLAVDLM***L**TVTLPSAST**S**SQ**T**IN**N**TRQN***S**
 P***E**PI**S**SPES***L**CWRN***S**K**S**FR**T**K**G**PT**A**S**F**PFITDTG**S**TVV**S**K**S**I**W**AA**Q**R**D**Q**R**C**P**SL**A**W**I**L**A**SS**R**FR**T**
 RAARL***L**CT**R**TAT**P**STC***E**T**S**SS**P**NG

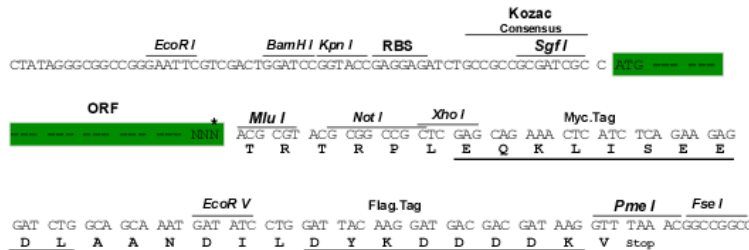
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001242785

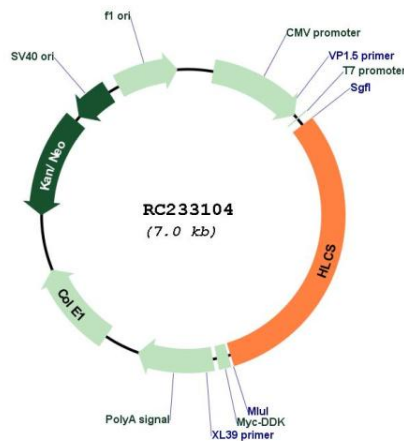
ORF Size: 2178 bp

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.

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| 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_001242785.1, NP_001229714.1</u> |
| RefSeq Size: | 6112 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 RC233104