

Product datasheet for **RG209197**

HLCS (NM_000411) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | HLCS (NM_000411) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | HLCS |
| Synonyms: | HCS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG209197 representing NM_000411
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGATAGACTCCACATGGATAATGGACTGGTACCCCAAAGATTGTGTCGGTGCCTTGCAGGACT
 CCACTCTGAAGGAAGTTAAGGATCAGGTCTCAAACAAGCAAGCCAGATCCTAGAGCCGAAGCCTGAACC
 TTCTCTTGAGATTAAGCCTGAGCAGGACGGTATGGAGCATGTTGGCAGAGATGACCCAAAGGCTCTTGTT
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 GACAAGCAAGGGTGCCTGCACAAGACAGTCCAGAACCTGGTTTTCTCCAAGGCTGACCAGAGTGAGGTG
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 TAACCCTACCATCTGCATCAACGACCTCATCACAGAATAACAATAACAACAAGGCAGAAGTGAAGCCC
 TTAAGAGCCGATTATCTCATCGCCAGAGTCTGACTGTGCTGGAGAACTGATCAAAGAGTTTCAGGACA
 AAGGGCCCAACAGCGTCTTCCCCTTTATTACCGATACTGGGTCCACAGTGGTCAGCAAGTCCATCTGGG
 CAGCGCAGAGGGACCAAGGTGTCCATCGTTGGCTGGACGATTCTGGCTTCTCCAGGTTACACAGGAG
 GGCGCGAGGTTGTGACTGTGCACCCGGACGGCAACTCCTTCGACATGCTGAGAACTCATCTCCCA
 AACGGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209197 representing NM_000411
Red=Cloning site Green=Tags(s)

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MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDGMHEVGRDDPKALG
EEPQRSGASGSEPAAGSDRGGGPVEHYHLHLSSCHECLELENSTIESVKFASAENIPDLPYDYSSSLE
SVADETSPEREGRRVNLTKAPNILLVYVSDSQEALGRFHEVRSVLADCVIDSYILYHLLSDALSALRDPW
TDNCLLLVIATRESIPEDLYQKFMAYLSQGGKVLGLSSSFTFGGFQVTSKALHKTQNLVFSKADQSEV
KLSVLSGGCRYQEGPVRVLSQGRVQGHLENEKDRMIVHVPFGTRGGEAVLCQVHLELPPSSNIVQTPEDF
NLLKSSNFRRYEVLEILTTGLSCDMKQVPALTPYL LLSAAEEIRDPLMQWLGKHDVSEGEIKSGQLSL
RFVSSYVSEVEITPSCIPVVTNMEAFSSEHFNLEIYRQNLQTKLQKLVILFAEVTPTMRLLDGLMFQTP
QEMGLIVIAARQTEGKGRGGNVWVSPVGCALSTLLISIPLRSQLGQRIPFVQHLMSVAVVEAVRSIPEYQ
DINLRVKWPNDIYSDLMKIGGVLVNSTLMGETFYILIGCGFNVTNSNPTICINDLITEYNKQHKAEKLP
LRADYL IARVVTVLEKLIKEFQDKGPNVLPYRYWVHSGQQVHLGSAEGPKVSI VGLDDSGFLQVHQE
GGEVVTVHPDGN SFDMLRNLILPKRR
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000411

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:

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](#)

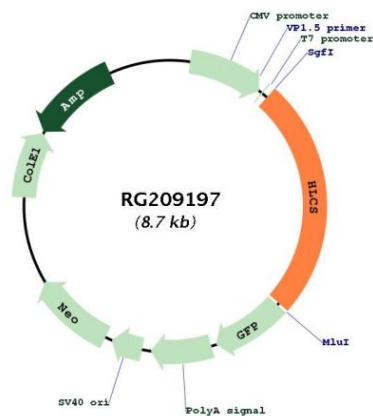
Cytogenetics: 21q22.13

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]

Product images:



Circular map for RG209197