

## Product datasheet for **RC214581**

### **HIBCH (NM\_198047) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HIBCH (NM\_198047) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** HIBCH  
**Synonyms:** HIBYLCOAH  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC214581 representing NM\_198047  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCAGCGGAGATGTGGAGGCTCATGTCGAGGTTTAAATGCATTCAAAAGGACTAATACCATACTGC  
ACCATTTGAGAATGTCCAAGCACACAGATGCAGCAGAAGAGGTGCTATTGGAAAAAAGGTTGCACGGG  
AGTCATAACACTAAACAGACCAAAGTTCCTCAATGCACTGACTCTTAATATGATTCGGCAGATTTATCCA  
CAGCTAAAGAAGTGGGAACAAGATCCTGAACTTTCCTGATCATTATAAAGGGAGCAGGAGGAAAGGCTT  
TCTGTGCCGGGGTGATATCAGAGTGATCTCGGAAGCTGAAAAGGCAAAACAGAAGATAGCTCCAGTTTT  
CTTCAGAGAAGAATATATGCTGAATAATGCTGTTGGTTCTTGCCAGAAACCTTATGTTGCACTTATTCAT  
GGAATTACAATGGGTGGGGAGTTGGTCTCTCAGTCCATGGGCAATTCGAGTGGCTACAGAAAAGTGTC  
TTTTTGCTATGCCAGAACTGCAATAGGACTGTTCCCTGATGTGGGTGGAGGTTATTTCTTGCCACGACT  
CCAAGGAAAACCTGGTTACTTCTTGCATTAACAGGATTCAGACTAAAAGGAAGAGATGTGTACAGAGCA  
GGAATTGCTACACACTTTGTAGATTCTGAAAAGTTGGCCATGTTAGAGGAAGATTTGTTAGCCTTGAAT  
CTCCTTCAAAGAAAATATTGCATCTGTCTTAGAAAATTACCATACAGAGTCTAAGATTGATCGAGACAA  
GTCTTTTATACTTGAGGAACACATGGACAAAATAAACAGTTGTTTTTCAGCCAATACTGTGGAAGAAATT  
ATTGAAAACCTTACAGCAAGATGGTTCATCTTTTGCCTAGAGCAATTGAAGGTAATTAATAAAATGTCTC  
CAACATCTCTAAAAGATCACACTAAGGCAACTCATGGAGGGTCTTCAAAGACCTTGAAGAAGTACTAAC  
TATGGAGTATCGGCTAAGTCAAGCTTGTATGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC214581 representing NM\_198047  
Red=Cloning site Green=Tags(s)

MGQREMWRMSRFNAFKRTNTILHHLRMSKHTDAAEEVLEKKGCTGVITLNRPKFLNALTLNMIRQIYP  
 QLKKEWQDPETFLIIKAGGKAF CAGGDIRVISEAEKAKQKIAPVFFREEYMLNNAVGCQKPYVALIH  
 GITMGGVGLSVHGQFRVATEKCLFAMPETAIGLFPDVGGGYFLPRLQGLKGYFLALTFGRLKGRDVYRA  
 GIATHFVDSEKLAMLEEDLLALKSPSKENIASVLENYHTESKIDRDKSFIL EEHMDKINSCFSANTVEEI  
 IENLQQDGSFALEQLKVINKMSPTSLKITLRQLMEGSSKTLQEVLTMEYRLSQACMF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8053\\_b09.zip](https://cdn.origene.com/chromatograms/mk8053_b09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_198047

**ORF Size:** 1014 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\\_198047.3](#)

**RefSeq Size:** 1710 bp

**RefSeq ORF:** 1017 bp

**Locus ID:** 26275

**UniProt ID:** [Q6NVY1](#)

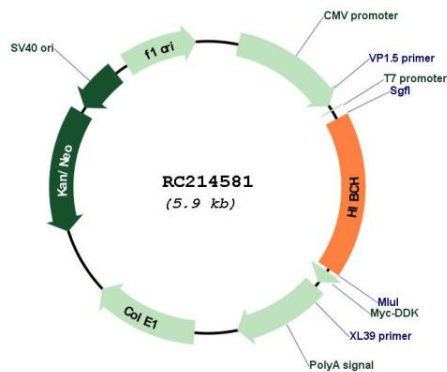
**Cytogenetics:** 2q32.2

**Protein Pathways:** beta-Alanine metabolism, Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation

**MW:** 34 kDa

**Gene Summary:** This gene encodes the enzyme responsible for hydrolysis of both HIBYL-CoA and beta-hydroxypropionyl-CoA. Mutations in this gene have been associated with 3-hydroxyisobutyryl-CoA hydrolase deficiency. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

### Product images:



Circular map for RC214581