

Product datasheet for MR206019

Hibch (NM_146108) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hibch (NM_146108) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hibch
Synonyms:	2610509I15Rik; HIBYL-COA-H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206019 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGCCATATGCGTGGCGGCTCCTGTGCGAGGGTCAGCTCCTTCAGAAGAGCCAGCGTTATTCTGC
AACATCTGAGAATGTCCATGCACACAGAAGCTGCAGAAGTGTCTGGAGAGGAGAGGCTGTGGAGGCGT
CATAACGCTCAACAGACCAAGTTCCTCAACGCACTGAGTCTGAATATGATCCGGCAGATCTATCCACAG
CTAAAGACATGGGAACAAGACCCCTGACACATTCCTGATCATCATAAAGGGAGCCGGAGGAAAGGCCCTTCT
GTGCTGGAGGGGACATCAAAGCACTCTCAGAAGCTAAAAAGCAAGACAGAATTTAACTCAAGATTTATT
CAGAGAAGAATACATCTTGAACAATGCAATTGCATCTTGTGAGAAACCATATGTTGCCCTTATTGATGGA
ATCACAATGGGTGGGGGAGTTGGTCTTTTCAGTCCATGGTCAATTCGAGTGGCTACAGAAAGGTCTCTCT
TTGCTATGCCAGAAACGGGAATAGGACTATTTCTGATGTGGGTGGAGGTTATTTCTTGCCAAGACTTCA
AGGAAAACCTCGGTTACTTCTTGCAGTACAGGATACAGACTAAAGGGAAGAGATGTGCACAGAGCGGGA
ATTGCCACACTTTGTAGATTCGAAAAGTTGCGTGTGTTGGAGGAGGAGCTGTTAGCCTTAAAGTAC
CTTCAGCTGAGGATGTTGCAGGTGTCTTAGAAAGCTATCATGCCAAGTCCAAGATGGATCAAGACAAATC
TATCATATTTGAGGAACACATGGACAAAATAAACAGTTGTTTTTCAGCCAATACCGTGAACAGATAATT
GAAAACCTACGGCAAGATGGGTACCTTTTGCCATAGAACAGATGAAGGTAATTAATAAAATGTCTCCGA
CATCACTAAAGATCACACTAAGGCAACTCATGGAGGGCTCTTCAAAGACTTTGCAAGAGGTAAGTATCAT
GGAATATCGGATAACTCAAGCATGTATGGAAGGCATGACTTTTCATGAAGGTGTTAGAGCTGTTCTCATT
GACAAAGACCAGACTCCAAAATGAAAACCGCAATCTAAAAGATGTTACGGATGAAGACTTGAATAGTT
ACTTTAAATCTCTGGGAAGCAGTGATTTGAAATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206019 protein sequence
Red=Cloning site Green=Tags(s)

MGQPYAWRLLSRVSSFRRASVILQHLRMSMHTAAEVLLERRGCGGVITLNRPKFLNALSLNMIRQIYPQ
 LKTWEQDPDTFLIIKAGGKAF CAGGDIKALSEAKKARQNL TQDLFREEYILNNAIASCQKPYVALIDG
 ITMGGGVGLSVHGQFRVATERSL FAMPETGIGLFPDVGGGYFLPRLQGGKLYFLAL TGYRLKGRDVHRAG
 IATHFVDSEKLRVLEEEELLALKSPSAEDVAGVLESYHAKSKMDQKSIIFEEHMDKINSCF SANTVEQII
 ENLRQDGSPPFAIEQMKVINKMSPTSLK I TLRQLMEGSSKTLQEVLI MEYRITQACMEGHDFHEGVRVLI
 DKDQTPKWKPANLKDVTD EDLNSYFKSLGSSDLKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_146108

ORF Size: 1158 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_146108.2](#)

RefSeq Size: 1720 bp

RefSeq ORF: 1158 bp

Locus ID: 227095

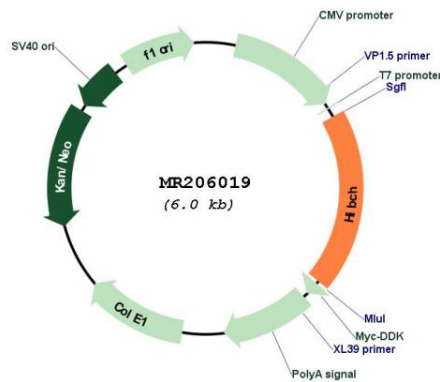
UniProt ID: [Q8QZS1](#)

Cytogenetics: 1 C1.1

MW: 43 kDa

Gene Summary: Hydrolyzes 3-hydroxyisobutyryl-CoA (HIBYL-CoA), a saline catabolite. Has high activity toward isobutyryl-CoA. Could be an isobutyryl-CoA dehydrogenase that functions in valine catabolism. Also hydrolyzes 3-hydroxypropanoyl-CoA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206019