

Product datasheet for **MG206019**

Hibch (NM_146108) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hibch (NM_146108) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hibch
Synonyms:	2610509I15Rik; HIBYL-COA-H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206019 representing NM_146108 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGCCATATGCGTGGCGGCTCCTGTGCGAGGGTCAGCTCCTTCAGAAGAGCCAGCGTTATTCTGC
AACATCTGAGAATGTCCATGCACACAGAAGCTGCAGAAGTGTCTGGAGAGGAGAGGCTGTGGAGGCGT
CATAACGCTCAACAGACCCAAGTTCCTCAACGCACTGAGTCTGAATATGATCCGGCAGATCTATCCACAG
CTAAAGACATGGGAACAAGACCCTGACACATTCCTGATCATCATAAAGGGAGCCGGAGGAAAGGCCCTTCT
GTGCTGGAGGGGACATCAAAGCACTCTCAGAAGCTAAAAAGCAAGACAGAATTTAACTCAAGATTTATT
CAGAGAAGAATACATCTTGAACAATGCAATTGCATCTTGTGAGAAACCATATGTTGCCCTTATTGATGGA
ATCACAATGGGTGGGGGAGTTGGTCTTTTCAGTCCATGGTCAATTCGAGTGGCTACAGAAAGGTCTCTCT
TTGCTATGCCAGAAACGGGAATAGGACTATTTCTGATGTGGGTGGAGGTTATTTCTTGCCAAGACTTCA
AGGAAAACCTCGTTACTTCTTGCAGTACAGGATACAGACTAAAGGGAAGAGATGTGCACAGAGCGGGA
ATTGCCACACTTTGTAGATTCGAAAAGTTGCGTGTGTTGGAGGAGGAGCTGTAGCCTTAAAGTAC
CTTCAGCTGAGGATGTTGCAGGTGTCTTAGAAAGCTATCATGCCAAGTCCAAGATGGATCAAGACAAATC
TATCATATTTGAGGAACACATGGACAAAATAAACAGTTGTTTTTCAGCCAATACCGTGAACAGATAATT
GAAAACCTACGGCAAGATGGGTACCTTTTCCATAGAACAGATGAAGGTAATTAATAAAATGTCTCCGA
CATCACTAAAGATCACACTAAGGCAACTCATGGAGGGCTTCAAAGACTTTGCAAGAGGTTACTGATCAT
GGAATATCGGATAACTCAAGCATGTATGGAAGGCATGACTTTTCATGAAGGTGTTAGAGCTGTTCTCATT
GACAAAGACCAGACTCCAAAATGAAAACCGCAATCTAAAAGATGTTACGGATGAAGACTTGAATAGTT
ACTTTAAATCTCTGGGAAGCAGTGATTTGAAATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206019 representing NM_146108
 Red=Cloning site Green=Tags(s)

MGQPYAWRLLSRVSSFRRASVILQHLRMSMHTEAAEVLLERRGCGGVITLNRPKFLNALSLNMIRQIYPQ
 LKTWEQDPDTFLIIKIGAGGKAF CAGGDIKALSEAKKARQNL TQDLFREEYILNNAIASCQKPYVALIDG
 ITMGGGVGLSVHGQFRVATERSL FAMPETGIGLFPDVGGGYFLPRLQGKLG YFLALTGYRLKGRDVHRAG
 IATHFVDSEKLRVLEEEELLALKSPSAEDVAGVLESYHAKSKMDQDKSIIIFEEHMDKINSCF SANTVEQII
 ENLRQDGSPPFAIEQMKVINKMSPTSLK I TLRQLMEGSSKTLQEVLI MEYRITQACMEGHDFHEGVRVLI
 DKDQTPKWKPANLKDVTDEDLNSYFKSLGSSDLKF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146108

ORF Size: 1155 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

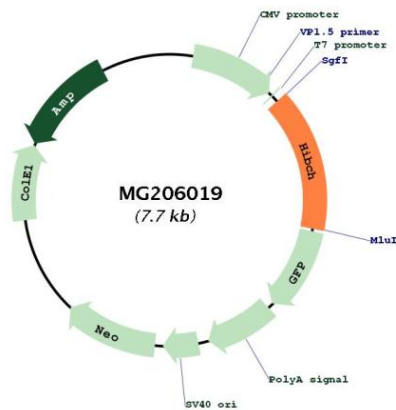
Locus ID: 227095

UniProt ID: [Q8QZS1](#)

Cytogenetics: 1 C1.1

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 MG206019