

Product datasheet for **RR211069**

Hibch (NM_001013112) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hibch (NM_001013112) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hibch
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211069 representing NM_001013112
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGCAGTTTGTGTGGCGCTCCAGTCGAGTTTCAGCTCAATCAGAAGAGCCAGTGTATTCTGC
AACATCTGAGAATGTCCAAGCACACAGAGACTGCAGAAGTCTGCTGGAGAGGAGGCTGTGCAGGGGT
CATAACGCTCAACAGACCCAAGTTACTCAACGCTCTGAGTCTGAATATGATCCGGCAGATCTATCCGCAG
CTAAAGAAGTGGGAACGAGACCCAGATACATTCCTGATCATCATAAAGGGAGCTGGAGGAAAGGCCCTTCT
GTGCTGGAGGGGACATCAAGCACTCTCAGAAGCTAAAAAAGCAGGGCAGACTTTGAGTCAAGATTTATT
CAGAGAAGAATATATCCTGAACAATGCCATTGCGTCTTGTGAGAAACCGTATGTTGCCCTTATTGATGGA
ATCACAATGGGTGGGGAGTTGGTCTTTCAGTCCATGGTCAATTCGAGTGGCTACAGAAAGATCTCTCT
TTGCTATGCCAGAAACGGGAATAGGACTGTTTCCTGATGTGGCGGAGGTTATTTCTTGCCAAGACTTCA
AGGAAAAGTGGTTACTTCTTGCACTGACAGGATTCAGACTAAAAGGAAGAGATGTGCACAGAGCGGGA
ATCGCCACACACTTTGTAGATTCAGAAAAGTTGCATGTACTGGAGGAGGAGTTGTTAGCCTTAAAGTCCC
CTTCAGCTGAGGATGTTGCTGGTGTCTTAGAAAGCTATCATGCCAAGTCCAAGATGGGTCAAGACAAGTC
TATCATATTTGAGGAACACATGGACAAAATAAACAGTTGTTTTTCAGCCAATACTGTGGAACAGATTCTT
GAAAACCTACGGCAAGATGGTTACCTTTTGCTATGGAACAGATTAAGTTCTCATTGACAAAGACCAGAC
TCCAAAATGAAAACAGCTGATC

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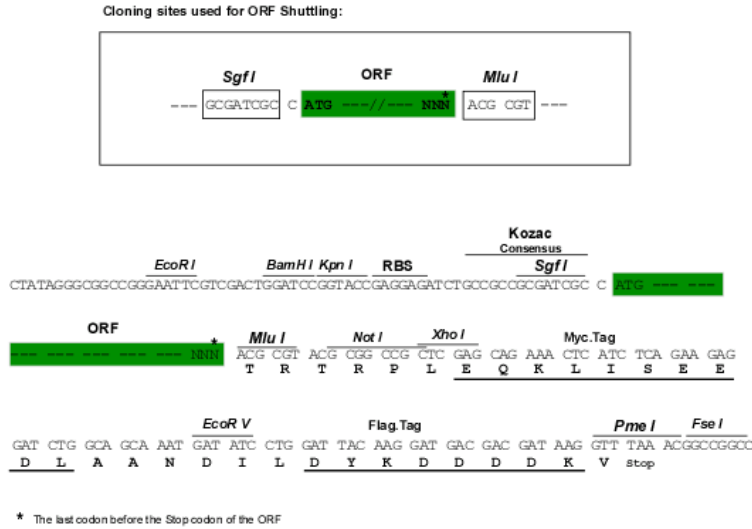
Protein Sequence: >RR211069 representing NM_001013112
 Red=Cloning site Green=Tags(s)

MGQQFVWRLQSRFSSIRRASVILQHLRMSKHTETAEVLLERRGCAGVITLNRPKLLNALSLNMRQIYPQ
 LKKWERDPDTFLIIKAGGKAF CAGGDIKALSEAKKAGQTLSQLDFREEYILNNAIASCQKPYVALIDG
 ITMGGGVGLSVHGQFRVATERSL FAMPETGIGLFPDVGGGYFLPRLQGLGYFLALTGFRLKGRDVHRAG
 IATHFVDSEKLHVLEEEELLALKSPSAEDVAGVLESYHAKSKMGQDKSII FEEHMDKINSCF SANTVEQIL
 ENLRQDGSPFAMEQIKFSLTKTRLQNGNQLI

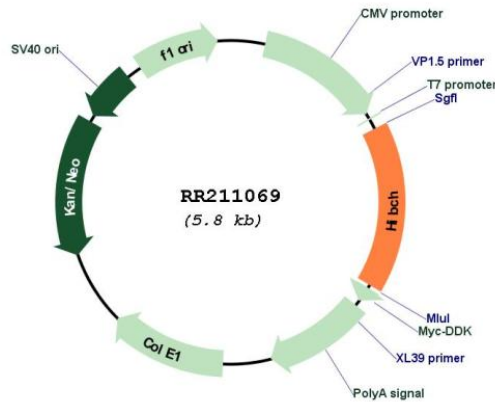
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013112

ORF Size:	933 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:	<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:	NM_001013112.1 , NP_001013130.1
RefSeq Size:	1738 bp
RefSeq ORF:	936 bp
Locus ID:	301384
UniProt ID:	Q5XIE6
Cytogenetics:	9q22
MW:	34.5 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]