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Product datasheet for SC309352

HIBCH (NM_198047) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIBCH (NM_198047) Human Untagged Clone
Tag:	Tag Free
Symbol:	HIBCH
Synonyms:	HIBYLCOAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309352 representing NM_198047. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGGGCAGCGCGAGATGTGGAGGCTCATGTCGAGGTTTAATGCATTCAAAAGGACTAATACCATACTG CACCATTTGAGAATGTCCAAGCACACAGATGCAGCAGAAGAGGTGCTATTGGAAAAAAAAGGTTGCACG GGAGTCATAACACTAAACAGACCAAAGTTCCTCAATGCACTGACTCTTAATATGATTCGGCAGATTTAT CCACAGCTAAAGAAGTGGGAACAAGATCCTGAAACTTTCCTGATCATTATAAAGGGAGCAGGAGGAAAG GCTTTCTGTGCCGGGGGTGATATCAGAGTGATCTCGGAAGCTGAAAAGGCAAAACAGAAGATAGCTCCA GTTTTCTTCAGAGAAGAATATATGCTGAATAATGCTGTTGGTTCTTGCCAGAAACCTTATGTTGCACTT ATTCATGGAATTACAATGGGTGGGGGAGTTGGTCTCTCAGTCCATGGGCAATTTCGAGTGGCTACAGAA AAGTGTCTTTTTGCTATGCCAGAAACTGCAATAGGACTGTTCCCTGATGTGGGTGGAGGTTATTTCTTG CCACGACTCCAAGGAAAACTTGGTTACTTCCTTGCATTAACAGGATTCAGACTAAAAGGAAGAGATGTG TACAGAGCAGGAATTGCTACACACTTTGTAGATTCTGAAAAGTTGGCCATGTTAGAGGAAGATTTGTTA GCCTTGAAATCTCCTTCAAAAGAAAATATTGCATCTGTCTTAGAAAATTACCATACAGAGTCTAAGATT GATCGAGACAAGTCTTTTATACTTGAGGAACACATGGACAAAATAAACAGTTGTTTTTCAGCCAATACT GTGGAAGAAATTATTGAAAACTTACAGCAAGATGGTTCATCTTTTGCCCTAGAGCAATTGAAGGTAATT AATAAAATGTCTCCAACATCTCTAAAGATCACACTAAGGCAACTCATGGAGGGGTCTTCAAAGACCTTG CAAGAAGTACTAACTATGGAGTATCGGCTAAGTCAAGCTTGTATGTTTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
Plasmid Map:	
ACCN:	NM_198047

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Insert Size:	1017 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_198047.2
RefSeq Size:	1924 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:	38 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-hyroxyisobutyryl-CoA hydrolase deficiency. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010] Transcript Variant: This variant (2) lacks an exon in the 3' coding region, which results in a frameshift and an early stop codon, compared to variant 1. The encoded isoform (2) has a distinct C-terminus, compared to isoform 1.