

## Product datasheet for **MC204787**

### Bckdhb (NM\_199195) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bckdhb (NM\_199195) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Bckdhb  
**Synonyms:** BCKDE1B; BCKDH E1-beta  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC064099  
 CAGAATTGGATGGCTGAATTTGAACAGATCCTTCGGGAATTGAGACTTCAGGTCAACTCCACGCGCTTGG  
 ACCTGTTCGCTGACCAAAGGATTACCCAATTGGATCTCCTCAGCATTTTCTTTCTTTAAAAATAGGGCAA  
 ACTCAGAAGATGAACCTCTCCAGTCAATAACAAGTGCCCTGGATAACTCATTAGCCAAAGACCCCACTG  
 CAGTAATATTTGGTGAAGATGTTGCCTTTGGTGGAGTCTCCGATGCACTGTTGGTTTACGAGACAATA  
 CGGAAAAGATAGAGTGTAAACACCCCGTTGTGTGAACAAGGAATAGTTGGATTTGGCATTGGAATCGCG  
 GTCACCGGTGCTACAGCTATTGCGGAAATCCAGTTTGGCGACTATATTTCCCTGCCTTTGATCAGATTG  
 TCAACGAAGCTGCCAAGTATCGCTACCGCTCAGGTGATCTTTCAACTGTGGGAGCCTCACCATCCGGGC  
 CCCGTGGGTTGTGGGCCATGGGGCTCTCTACCATTCTCAGAGTCTGAAGCCTTTTTTGCCATTGC  
 CCAGGGATCAAGGTGGTAATACCCCGAAGCCCTTCCAGGCCAAGGACTTCTGTTGTCATGCATAGAAG  
 ATAAAAATCCATGTATATTTTTGAACCTAAAATACTTTACCGGGCAGCAGTGGAACAGGTCCCAGTAGA  
 ACCCTACAAGATCCCCTTGTCTCAGGCTGAAGTCATCCAGGAGGGCAGCGATGTGACTCTGGTTGCCTGG  
 GGCACTCAGGTTTCATGTCATCCGGGAGGTGGCTTCCATGGCCCAAGAAAAGCTTGGAGTATCTTGTGAAG  
 TCATCGATCTGCGGACAATTGTGCCTTTGGGATGTGGATACAGTTTGCAAGTCTGTGATCAAAACCGGGCG  
 ACTGTTGATCAGCCACGAGGCTCCCTTAACAGGCGGCTTTGCCTCTGAGATCAGCTCCACGGTCCAGGAA  
 GAATGTTTCTTGAACCTAGAGGCTCCAATATCTCGAGTTTGGGATATGACACCCCGTTTCTCACATCT  
 TTGAGCCCTTTTATATCCAGACAAATGGAAGTGTACGATGCCCTTCGCAAGATGATCAACTATTGACG  
 ACAGAGAAAACCAGGAAGATCATGACCAGACATGGAATATTTTTCTGAAACCTTTTTATATTTCCCTTAT  
 ACTTCTTTCTTTACATATAGTTTTATGCAACGAACTGTCAATGGATATTGGCTGATGAGCTGCGAATTA  
 CTTATCATGTTAATAAATGGATTGAGTGCACAGGAGGAATGCTTTAAGGAGTGGCTGGGCGGTGATCT  
 TAAGACTGTTTTCATGACTATAAATACCGGTGGTGTGATTCAATAAAGCCAAATTACATCGCCTCAAA  
 AAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI  
**ACCN:** NM\_199195  
**Insert Size:** 969 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC064099</a> , <a href="#">AAH64099</a>
<b>RefSeq Size:</b>	1419 bp
<b>RefSeq ORF:</b>	969 bp
<b>Locus ID:</b>	12040
<b>UniProt ID:</b>	<a href="#">Q6P3A8</a>
<b>Cytogenetics:</b>	9 E2
<b>Gene Summary:</b>	<p>This gene encodes the beta chain of the branched chain alpha ketoacid dehydrogenase (Bckdh) complex. The encoded protein exists in a heterotetrameric complex containing the Bckdh alpha subunit to form the E1 catalytic component of Bckdh complex. The Bckdh complex catalyzes the oxidative decarboxylation of branched chain ketoacids to their corresponding acyl-CoA esters, during the catabolism of leucine, isoleucine and valine. In humans, certain mutations in this gene cause maple syrup urine disease. Alternative splicing results in multiple transcript variants encoding different isoforms. A pseudogene for this gene has been identified. [provided by RefSeq, Apr 2015]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon and uses a downstream start codon compared to variant 1. It encodes isoform 2 which has a shorter N-terminus compared to isoform 1.</p>