

## Product datasheet for **SC205565**

### **BCKDHA (NM\_000709) Human 3' UTR Clone**

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** BCKDHA (NM\_000709) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** BCKDHA  
**Synonyms:** BCKDE1A; MSU; MSUD1; OVD1A  
**ACCN:** NM\_000709  
**Insert Size:** 424 bp  
**Insert Sequence:** >SC205565 3'UTR clone of NM\_000709  
The sequence shown below is from the reference sequence of NM\_000709. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG  
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC  
CACTACCCACTGGATCACTTCGATAAGTGAACCTGCTCAGCCCACCCACCCATCCTCAGCTACCCC  
GAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTGACAGCACACCACTGTCTCCCCAGTCAGCTC  
CCTCTAAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTCAACCCCTGCTCCTCCCGGCTGTTACATTGT  
CAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTGACCCCCCTTTCACCTGTTGTTACAGTGCCT  
TCTCCAGGGGCTGGGTGAGGGCACATTCAGGACTAGAAGCCCCTCTGGGCATGGGGTGGACATGGCAG  
GTCAGCCTGTGGAACCTGCGCAGGTGCGAGTGCCAGCAGAGGTCACGAATAAACTGCATCTCTGCGCC  
TGGCTCTCTA  
ACGCGTAAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA  
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000709.4](#)



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**Summary:**

The branched-chain alpha-keto acid (BCAA) dehydrogenase (BCKD) complex is an inner mitochondrial enzyme complex that catalyzes the second major step in the catabolism of the branched-chain amino acids leucine, isoleucine, and valine. The BCKD complex consists of three catalytic components: a heterotetrameric (alpha2-beta2) branched-chain alpha-keto acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide dehydrogenase (E3). This gene encodes the alpha subunit of the decarboxylase (E1) component. Mutations in this gene result in maple syrup urine disease, type IA. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

**Locus ID:**

593

**MW:**

15.4