

## Product datasheet for **MC202351**

### **Dbt (NM\_010022) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dbt (NM_010022) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dbt
Synonyms:	BCKAD-E2; D3Wsu60e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC055890 sequence for NM\_010022  
 GGCTATTTCCGGAGTAAAATGGCTGCAGCGCGTGTACTGAGGACCTGGAGCCAGAACGCTGTCAGACTGA  
 CCTGTGTTTCGCTATTTTCAGACATTTAATAGCGCCCGTGTGTTTGAAGCCAAAATGTGTGTCTGTGGG  
 TTATCCATTGTTCAAGTACAGTACAGCCAGTCACTCCCTGAGAACAGCGGCCGTGCTCCAGGGACAGGTT  
 GTTCAGTTCAAACTCTCCGACATCGGAGAAGGAATTCGAGAAGTAACTATTAAGAATGGTATGTAAAAG  
 AAGGAGATACGGTGTCTCAGTTTGACAGCATCTGTGAAGTTCAAAGTGACAAGGCCTCTGTCAACATCAC  
 CAGCCGTTACGATGGCATCATTAAGAGGCTCTATTACAATCTAGATGATATCGCTTATGTGGGAAACCA  
 CTGATCGACATTGAGACAGAAGCTTTAAAGGATTAGAGGAAGATGTTGTTGAAAACCCCGCTGTGTCCC  
 ATGATGAGCACACTACCAAGAGATAAAAAGGCCAGAAAACACTAGCAACGCCTGCAGTGCCTCGGCTGGC  
 AATGAAAAACAATATTAAGCTGAGTGAAGTTGTTGGCTCAGGAAAAGATGGCAGAATACTTAAAGAAGAT  
 ATTCTCAGCTTTTGGAAAAGCAGACAGGAGCCATACTGCCTCCCTACCAAAAATCTGAAATCACACCAC  
 CTCCACCACAGCCCAAAGACAGGACCTTTCCACGCCGATAGCAAAGCCTCCAGTGTTCACAGGCAAAGA  
 CCGAACAGAGCCAGTACAGGCTTCCAGAAGGCAATGGTGAAGACCATGTCTGCAGCCCTGAAGATTCCC  
 CACTTCGGGTATTGTGATGAGATTGACCTTACTCAACTGGTTAAGCTTCGAGAAGAGCTGAAACCTGTTG  
 CTTTGGCGCGTGAATCAAACCTCCTTCATGCCCTTCTTCTTAAAGGCTGCTTCTCTGGGACTCCTGCA  
 GTTTCCTATCCTCAATGCCTCCGTGGACGAGAAGTCCAGAACATCACCTACAAGCTTCTCACAAACATT  
 GGGATAGCAATGGACACTGAGCTGGGGTTAATTGTCCCAATGTGAAGAACGTTCAAGTCCGCTCTGTAT  
 TTGAGATCGCCATGGAAGTGAACCGCTCCAGAAAAGTGGGCTCTTCCGGTCAGCTCGGTACCACCGACCT  
 TACAGGAGGGACATTTACTCTTTCACCAATTGGATCAATCGGTGGAACCTATGCCAAGCCAGTGATTTG  
 CCACCGGAAGTAGCCATTGGTGCCTGGGAGCGATTAAGGCTCTTCCCGATTTGACCAGAAAGGAGACG  
 TTTATAAAGCACAGATAATGAATGTGAGCTGGTCAGCGGATCACAGGGTCATCGATGGGGCCACCATGTC  
 ACGCTTCTCTAATTTGTGAAAATCCTACTTAGAAAACCCAGCGTTTATGCTGTGGATCTGAAATAATGG  
 CAAACAGGACATCTGTGAACCTTTTCGATTTCCAAAGAGTGTGTGAGGCCCTCGCTGAGCCAGCACACT  
 CTGGTTGCGGCTGCATTAGAAAATGGTTTGTGCTGCCTTGGTAGGGCTTTAAAGCACAGTATTTCTCACTG  
 ACACATTGGGCTTCTGCTGAAAAGGAGCGGTGGGTAAGGCTCCCTGGGTATCACATTGTGTAGGTCAG  
 AGCGGGGCTTCCATTATGGTGTGAGATCTATGTGTGAGTGAACAAGCAACAAAACAAAATTGA  
 TGTCACTAAATGTCACTAATGCCACTGAAGGCGAGTAGCAGTATACATGCAGAAGTGGCCCTTTCTTT  
 TTAATTTTAACTGATTTTTTAAATGAACTTTTAAATTATACTTAATCGGGGAAAAGACTCTGTATGCA  
 AGTATGTTTTTCAATCCCTACAATCGAAGTAACTAATGTACAAAATAAGTGAATTTCTGTTATCTCTTC  
 AGCTTATGAGACATATACCCTTGCCTTATGTGTAAGTATCATCTATAAATGTCTTATAGCTATAAATTA  
 GCATTTGAAAGGGGGAGTTAAGTGGTCTTAATTGGAGGTTACAACCAAAAAGCTGTTAAGAGT  
 AGATGTGTAGATGGTGGATGTGACAGAGCTGTGAGCGAGCTTCCGCATTTGCTGGGAAATACTGACTT  
 TGCAAACCTCATTTTGTGATATAAAATACCAATAAGCATAGCATCACTGTCTTTTTTTCTTTTAACTTAG  
 AGATTTGTTGCCTTTGATTTCAAGTACCTTACAGCGAGACACGAGAAAAGGCTTTGGAGTCTGTTCTGTC  
 CTCCCAGCCCTCAGTAGGAGCACGTATTAATAAGAAGAGCCACATGGGAAATTAAGGCATAAAAATTAAT  
 TTATACAGAAATGCTACTAATGATCATCTTGAAGGCTTACTTTAATCAGATAGCTTCAAGGGGATTC  
 TAATTCAGGCTGAGAAAAGCCTTATTTCAAGCACTTGAAGAAACAAGACAAGTGGATCTCTGAGTTGCA  
 GGCCAGCCTGGTCTACAGAGTGAAGTTCACAGACAGCCAGAGCTATGTAGAGAAACCCTGTATTTAAAAAG  
 AAAAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAG  
 AAAGAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_010022

**Insert Size:** 1449 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).

<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>	<u><a href="#">BC055890</a></u> , <u><a href="#">AAH55890</a></u>
<b>RefSeq Size:</b>	2679 bp
<b>RefSeq ORF:</b>	1449 bp
<b>Locus ID:</b>	13171
<b>UniProt ID:</b>	<u><a href="#">P53395</a></u>
<b>Cytogenetics:</b>	3 50.37 cM
<b>Gene Summary:</b>	The branched-chain alpha-keto dehydrogenase complex catalyzes the overall conversion of alpha-keto acids to acyl-CoA and CO <sub>2</sub> . It contains multiple copies of three enzymatic components: branched-chain alpha-keto acid decarboxylase (E1), lipoamide acyltransferase (E2) and lipoamide dehydrogenase (E3). Within this complex, the catalytic function of this enzyme is to accept, and to transfer to coenzyme A, acyl groups that are generated by the branched-chain alpha-keto acid decarboxylase component.[UniProtKB/Swiss-Prot Function]