

Product datasheet for **MC202068**

Bcat1 (NM_007532) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcat1 (NM_007532) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bcat1
Synonyms:	BCATc; Eca39
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC053706 sequence for NM_007532
AAGAGGTAATCCCGGACTGTAGCTCGCGCTGAGCCAGTCCGCTGCTGATGCAATCCGCAGCGGAGCGCGC
CCAGCTCTCCATCTTCCGCGCTTCCGACCCGACCTGAGCGCCACGTGTCACTGCACAGCCGCTCCTCC
AGAGGAGACTCACATTTGCACCCAGGAGCCGGAGCCACGACCCAAAGCCACGAGAAATGAAGGACTGCAGT
AATGGATGCTCCGCGCGTTTGTGGAGAAAGAGGATCAGAAGAAGTGGCGGAGACTTTTAGGGCCAAAG
ATCTCATCATCACACCAGCCACTGTCTTAAAAGAGAAGCCGACCCGGATTTCGCTGGTCTTTGGAGCTAC
GTTTACTGACCACATGCTGACGGTGGAGTGGCTCTCGCTTGGATGGGAGAAACCTCACATTAAGCCT
TTTGAAAACCTTGCCCATACATCCCGCTGCCTCTGTTTTGCACTACGCTGTGGAACGTTTTGAAGCCTTGA
AAGCCTTTCGGGGAGTTGATAACAAGATCCGATTGTTCCGGCCGACCTCAACATGGATAGAATGTGCCG
ATCTGCTGTGAGGACCACGCTGCCGATGTTTGACAAGGAGGAGCTCCTAAAGTGTATTCTTCAGCTTCTA
CAGATCGACCAAGAATGGGTTCCTACTCCACCTCTGCCAGCCTCTACATCCGCCCCACATTTATCGGAA
CTGAGCCATCTTTGGCGTCAAGAAGCCTTCCAAAGCCCTACTCTTTGTGATCCTGAGCCCCGTGGGACC
TTATTTTTCTAGTGGATCTTTACTCCGGTGTCCCTGTGGCCAAATCAAAGTATATCAGAGCCTGGAAA
GGTGGGACTGGAGACTGCAAGATGGGCGCAATTATGGAGCCTCCCTTCTGGCACAGTGCAGGCCCGCGG
AGAATGGCTGTCAGCAGTCTGTGGCTGTACGGCAAGGACAACCAGATAACTGAAGTAGGCACAATGAA
TCTTTTCCCTACTGGATAAACGAAGACGGAGAAGAGGAGCTGGCAACGCCCCACTAGATGGCATTCAAT
CTCCCAGGAGTGACCAGGCAGAGCATCCTGGAGCTGGCAACAAGTGGGGTGAGTTTAAGGTATGTGAGA
GACACCTACCATGGATGACCTGGCCACCCCTTGAGGGGAACAGAGTGAAGGAGATGTTCCGGCTCAGG
GACAGCCTGCGTGTCTGCCAGTCTCTGATATTCTGTACAAGGGCCAGATGCTGCATATCCAACGATG
GAGAATGGCCCCAAGCTTGAAGTGAATCCTGGGAAAGCTGACTGATATCCAGTATGGAAGGGTGGAGA
GTGACTGGACAATCGAGTACCCTGACGGCAAAGCTCAGGGTATCGGTGACGGTGCCACAGAAGAGCGAC
TCCTGCCCTCGAGCTGGGACCACCTGTGACCATCTAGTCTTGCACATTGTAGTCGGTTCCTCATGTGTT
ACCAAATGAGGTTTTTTTCTTGAGCCACAGAAAGTTGCCAGTGTCAATGCCACCTATATACATGGTAGC
AATTGCTTACTGTAGTCTCCCTCACCTGTACCAGATCCTTAGTAGGAGAATGGGTTCCCAAACCAATAA
GATGTCTATGTGCTGGAAGGGCTACTGAGGAAATGTCACAGGCGCCTCCCTGTGACTCATGGGACTCT
CAGAGCAGGACACTTTGTTTCTTTGCTGGTGAGGTTCTTTTGTTTTTTGTGGTTGTTTTTTTTTTG
TTTTTTTTTTCTAATTGGGGCAGATTTGGGCTCCCCATGCAGCCCTGCTGGCCTGGTGTCCCTAATGT
TCACCCCGGCTGGTCTCAGACTCAGAGCAGCCTTCCCGTCTCCCTCAGCCTTCTGGATGCTGGGGTATT
GACAGGCGTCTACCATGATTTGTTTTGTTTTTAAATCAAAGTTCGGTACCTGGATTTCTTTCTCC
GTTGGTCCCTGGGTCCACGCTAAGGTGACTGTCCCTTCTCGTATCACGGTCTGACTAATCTACCCAA
GGTGTCTGAGGCTGGTTGTCGCACTGCCCTTTTACGTAACATAACTGGCTGCTCACTGCGCTGCTAT
GAGACTAGGGGTCTGTGCCTTCTAGATCTTGCATCCTCAAAGCCAGCACATAGTAGGTATTTTCAGT
ACATGTTTACTCTAAGAATGAACATAGAAGTGTACTTTCTGTCTCTCCATGCTGAAACCCTTTCCGAAGC
CAGGCCTGATTTGGGCAGCATGTAGCAGTATTTACCTCAGGCTGTCTTCTGTCCATGGACTCCTCCAG
ACAGCACAGTCAGTTGGAAGAATTGTCTTATGTTTTAAGATTACTTGGAAATTGAAGCGATTGCCCTGGA
AAGATGAAATACTAACCCATGGAAGTGACAGATACTATACATTATGTGTTAAATGCCAAATAAAGGGTC
AGGTTGGGAGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG

Restriction Sites: RsrII-NotI

ACCN: NM_007532

Insert Size: 1161 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).

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: [BC053706](#), [AAH53706](#)

RefSeq Size: 2493 bp

RefSeq ORF: 1161 bp

Locus ID: 12035

UniProt ID: [P24288](#)

Cytogenetics: 6 77.27 cM

Gene Summary: Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) uses an alternate 5'-terminal exon, compared to variant 1. The resulting protein (isoform 2) has a shorter and unique N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.