

Product datasheet for **MC227230**

Bcat2 (NM_001243053) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bcat2 (NM_001243053) Mouse Untagged Clone
Tag: Tag Free
Symbol: Bcat2
Synonyms: Bcat-2; Eca40
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227230 representing NM_001243053
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAAGAACCACAGAAGAAGCCAGCCCCTAGCCAGGCACTGCTGTTGGGAAGACCTTCACAGACC
 ACATGCTGATGGTGGAGTGAATAACAAGGCTGGATGGGGCCACCAAGGATCCAGCCCTCCAGAACCT
 CACGCTACACCCAGCCTGCTCTGGTCTGCACTACTCTCTGCAGCTCTTTGAGGGCTTGAAGCATACAAA
 GGTGGAGACCAGCAGGTACGCCTCTCCGGCCCTGGCTCAACATGGACAGGATGCTACGTTCTGCTAGGC
 GCCTCTGCCTGCCAGACTTTGACAAGCAGGAGCTGTTGGAGTGTATCCGCCAGCTCATTGAAGTAGACAA
 AGACTGGGTTCCCGATGGCAACGGAACGAGCCTCTACGTGCGGCCGTGCTGATCGGGAATGAGCCCTCG
 CTGGGTGTTGGTATGGTCACACAAGCCCTCCTGTACGTCATTCTGTGCCCTGTGGGCTCCTACTTCCCTG
 GAGACTCCATGACACCTGTCTCCCTCCTGGCGGACCCTTCATTTCGTCAGAGCCTGGATAGGCGGAGTCGG
 TGACTGCAAGTTGGGGGGAACATGGACCCACTGTGGCTGTGCAGCGAGAAGCCAGAAGAGAGGCTGC
 GAGCAGGTCTCTGGCTGTACGGCCAGACCACCAGCTCACTGAGGTGGCACCATGAACATCTTTGTCT
 ACTGGACCCATGAAGACGGAGTACTGGAGCTGGTAACCCCCACTGAATGGCGTCATCTGCCTGGAGT
 AGTTCGACAAAGTCTGCTGGATCTGGCCAGGACTTGGGGTGAAGTTCGGGTGGCAGAACGCAAGGTCAT
 ATGAAGGAATTGAAGCGGGCGCTGGAGGAAGGCCGAGTGCAGAGAAGTCTTCGGCTCAGGCACTGCTGTG
 AGGTCTGCCCGGTGCACCAAATCCTGTATGAAGGCAAGCAACTCCACATACCTACCATGGAGAACGGCCC
 AGAGCTCATCCTGCGCTTCCAGAAGGAAGTGAAGGCTATTCAAGTACGGAGCCAGTCCCACGATTGGATG
 TTTCGGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001243053



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Insert Size:	1062 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001243053.1, NP_001229982.1</u>
RefSeq Size:	1692 bp
RefSeq ORF:	1062 bp
Locus ID:	12036
Cytogenetics:	7 29.36 cM
Gene Summary:	Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine. May also function as a transporter of branched chain alpha-keto acids.[UniProtKB/Swiss-Prot Function]