

Product datasheet for MC227229

Bcat2 (NM_001243052) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcat2 (NM_001243052) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bcat2
Synonyms:	Bcat(m); Bcat-2; Eca40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227229 representing NM_001243052 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCAAAGAACCACAGAAGAAGCCAGCCCTAGCCAGGCACTGCTGTTGGGAAGACCTTCACAGACC
ACATGCTGATGGTGGAGTGAATAACAAGGCTGGATGGGGCCACCAAGGATCCAGCCCTCCAGAACCT
CACGCTACACCCAGCCTGCTCTGGTCTGCACTACTCTGCGAGCTCTTTGAGGGCTTGAAGCATAACAA
GGTGGAGACCAGCAGGTACGCCCTTCCGGCCCTGGCTCAACATGGACAGGATGCTACGTTCTGCTAGGC
GCCTCTGCCTGCCAGACTTTGACAAGCAGGAGCTGTTGGAGTGTATCCGCCAGCTCATTGAAGTAGACAA
AGACTGGGTTCCCGATGGCAACGGAACGAGCCTCTACGTGCGGCCGTGCTGATCGGGAATGAGCCCTCG
CTGGGTGTTGGTATGGTACACAAGCCCTCCTGTACGTACATTCTGTGCCCTGTGGCTCCTACTTCCCTG
GAGACTCCATGACACCTGTCTCCCTCCTGGCGGACCCCTCATTGTCAGAGCCTGGATAGCGGAGTCCGG
TGACTGCAAGTTGGGGGGAACATGGACCCACTGTGGCTGTGCAGCGAGAAGCCAGAAGAGAGGCTGC
GAGCAGGTCTCTGGCTGTACGGGCCAGACCAGCTCACTGAGGTGGGCACCATGAACATCTTTGTCT
ACTGGACCCATGAAGACGGAGTACTGGAGCTGGTAACCCCCCACTGAATGGCGTCATCTGCTGGAGT
ATGAAGGAATTGAAGCGGGCGCTGGAGGAAGCCGAGTGGAGAAGTCTTCGGCTCAGGCACTGCTTGTG
AGGTCTGCCCGGTGCACCAAATCCTGTATGAAGGCAAGCACTCCACATACCTACCATGGAGAACGGCCC
AGAGCTCATCCTGCGCTTCCAGAAGGAAGTGAAGGCTATTTCAGTACGGAGCCAGTCCCACGATTGGATG
TTTCGGGTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001243052
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_001243052.1</u> , <u>NP_001229981.1</u>
RefSeq Size:	1807 bp
RefSeq ORF:	1062 bp
Locus ID:	12036
Cytogenetics:	7 29.36 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.</p>