

Product datasheet for **MR218043**

Bcat1 (NM_001024468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcat1 (NM_001024468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bcat1
Synonyms:	BCATc; Eca39
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218043 representing NM_001024468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCATCGGCTGCGCTCGCCCTGCGCCGGTGTCTGCTGGTGGCTCTCCCATCGTACCTCTTTAC
 CCGCCACGCCAAACTGCAGTCCCGGGTGTCTGGGATCCGCGGTGCGCCACGAGTCCCGCTGTGCCACGT
 ATTCCACGCTCCCGCAGCTTCTGCATGGCCTGCTTGCCAGAGCAACTGCAACCCTGGCCCGCCAGGAC
 TGCAGTAATGGATGCTCCGCGCGTTTGTCTGGAGAAAGAGGATCAGAAGAAGTGGCGGAGACTTTTAGGG
 CCAAAGATCTCATCATCACACCAGCCACTGTCTTAAAAGAGAAGCCGGACCCGGATTCTGCTGGTCTTTGG
 AGCTACGTTTACTGACCACATGCTGACGGTGGAGTGGTCTCTGCGTCTGGATGGGAGAAACCTCACATT
 AAGCCTTTGGAACTTGCCATACATCCCGCTGCCTCTGTTTTGCACTACGCTGTGGAAGTGTGTTGAAG
 GCTTGAAGCCTTTCGGGGAGTTGATAACAAGATCCGATTGTTCCGGCCGGACCTCAACATGGATAGAAT
 GTGCCGATCTGCTGTGAGGACCAGCTGCCGATGTTTGACAAGGAGGAGCTCCTAAAGTGTATTCTTCAG
 CTCTACAGATCGACCAAGAATGGTTCCCTACTCCACCTCTGCCAGCCTCTACATCCGCCCCACATTTA
 TCGGAACTGAGCCATCTCTTGGCGTCAAGAAGCCTTCCAAGCCCTACTCTTTGTGATCCTGAGCCCGT
 GGGACCTATTTTTCTAGTGGATCTTTTACTCCGGTGTCCCTGTGGGCAATCCAAAGTACATCAGAGCC
 TGGAAAGTGGGACTGGAGACTGCAAGATGGGCGCAATTATGGAGCCTCCCTTCTGGCAGAGTGGCAGG
 CCGTGGAGAAATGGCTGTCAGCAGGTCTGTGGCTGTACGGCAAGGACAACCAGATAACTGAAGTAGGCAC
 AATGAATCTTTTCTCTACTGGATAAACGAAGACGGAGAAGAGGAGCTGGCAACGCCCCACTAGATGGC
 ATCATTCTCCAGGAGTGACCAGGCAGAGCATCCTGGAGCTGGCACAACAGTGGGGTGGTAAAGTAT
 GTGAGAGACACCTCACCATGGATGACCTGGCCACCGCCCTTGAGGGGAACAGAGTGAAGGAGATGTTCCG
 CTCAGGGACAGCCTGCGTTGCTGCCCCAGTCTCTGATATTCTGTACAAGGGCCAGATGCTGCATATTCCA
 ACGATGGAGAATGGCCCCAAGCTTGAAGTCAATCCTGGGAAAGCTGACTGATATCCAGTATGGAAGG
 TGGAGAGTACTGGACAATCGAGCTACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218043 representing NM_001024468
 Red=Cloning site Green=Tags(s)

MLHRLRSPLRRVLAGGSPIVPLSPATPNCSPGLSGSAVRHESPLCHVFPRSRFVMAACLPRATATLARQD
 CSNGCSAPFAGERGSEEAETFRAKDLIITPATVLEKEKPDPSLVFGATFTDHMLTVEWSSASGWEKPHI
 KPFGNLPIHPAASVLHYAVELFEGLKAFRGVDNKIRLFRPDLNMDRMCRAVVRTLPMFDKEELLKCILQ
 LLQIDQEWVYSTSASLYIRPTFIGTEPSLGVKKPSKALLFVILSPVGPYFSSGSFTPVSLWANPKYIRA
 WKGGTGDCKMGGNYGASLLAQCEAVENGCCQVLWLYGKDNQITEVGTMNLFLYWINEDGEEELATPPLDG
 IILPGVTRQSILELAQQWGEFKVCERHLTMDDLATALEGNRVKEMFSGTACVVCVPSDILYKQMLHIP
 TMENGPKLASRILGKLDIYQYGRVESDWTIELP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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: [NM_001024468.3](#), [NP_001019639.1](#)

RefSeq Size: 7849 bp

RefSeq ORF: 1362 bp

Locus ID: 12035

Cytogenetics: 6 77.27 cM

MW: 50.4 kDa

Gene Summary: Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine.[UniProtKB/Swiss-Prot Function]