

Product datasheet for **MG218043**

Bcat1 (NM_001024468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcat1 (NM_001024468) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bcat1
Synonyms:	BCATc; Eca39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218043 representing NM_001024468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCATCGGCTGCGCTCGCCCTGCGCCGGTGTCTGCTGGTGGCTCTCCCATCGTACCTCTTTAC
 CCGCCACGCCAAACTGCAGTCCCGGGCTGTCGGGATCCGCGGTGCGCCACGAGTCCCGCTGTGCCACGT
 ATTCCACGCTCCCGCAGCTTCTGCATGGCCTGCTTGCCAGAGCAACTGCAACCCTGGCCCGCCAGGAC
 TGCAGTAATGGATGCTCCGCGCGTTTGTGGAGAAAAGAGGATCAGAAGAAGTGGCGGAGACTTTTAGGG
 CCAAAGATCTCATCATCACACCAGCCACTGTCTTAAAAGAGAAGCCGGACCCGGATTGCTGGTCTTTGG
 AGCTACGTTTACTGACCACATGCTGACGGTGGAGTGGTCTCTGCGTCTGGATGGGAGAAACCTCACATT
 AAGCCTTTTGAAACTTGCCATACATCCCGCTGCCTCTGTTTTGCACTACGCTGTGGAAGTGTGTTGAAG
 GCTTGAAGCCTTTCGGGGAGTTGATAACAAGATCCGATTGTTCCGGCCGGACCTCAACATGGATAGAAT
 GTGCCGATCTGCTGTGAGGACCAGCTGCCGATGTTTGACAAGGAGGAGCTCCTAAAGTGTATTCTTCAG
 CTCTACAGATCGACCAAGAATGGTTCCCTACTCCACCTCTGCCAGCCTCTACATCCGCCCCACATTTA
 TCGGAAGTGAAGCCATCTCTTGGCGTCAAGAAGCCTTCAAAGCCCTACTCTTTGTGATCCTGAGCCCGT
 GGGACCTATTTTTCTAGTGGATCTTTTACTCCGGTGTCCCTGTGGGCAATCAAAGTACATCAGAGCC
 TGGAAAGTGGGACTGGAGACTGCAAGATGGGCGCAATTATGGAGCCTCCCTTCTGGCAGAGTGGCAGG
 CCGTGGAGAAATGGCTGTGACGAGTCTGTGGCTGTACGGCAAGGACAACCAGATAACTGAAGTAGGCAC
 AATGAATCTTTTCTACTGGATAAACGAAGACGGAGAAGAGGAGCTGGCAACGCCCCACTAGATGGC
 ATCATTCTCCAGGAGTACCAGGACAGCATCCTGGAGCTGGCACAACAGTGGGTGAGTTAAGGTAT
 GTGAGAGACACCTCACCATGGATGACCTGGCCACCGCCCTTGAGGGGAACAGAGTGAAGGAGATGTTCCG
 CTCAGGGACAGCCTGCGTTGCTGCCCCAGTCTCTGATATTCTGTACAAGGCCAGATGCTGCATATTCCA
 ACGATGGAGAATGGCCCCAAGCTTGAAGTCAATCCTGGGAAAGCTGACTGATATCCAGTATGGAAGG
 TGGAGAGTACTGGACAATCGAGTACCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218043 representing NM_001024468
 Red=Cloning site Green=Tags(s)

MLHRLRSPLRRVLAGGSPIVPLSPATPNCSPGLSGSAVRHESPLCHVFPRSRSFVMACLPRATATLARQD
 CSNGCSAPFAGERGSEEAETFRAKDLIITPATVLKEKPDPSLVFGATFDHMLTVEWSSASGWEKPHI
 KPFGNLPIHPAASVLHYAVELFEGLKAFRGVDNKIRLFRPDLNMDRMCRSAVRTTLPMPDKEELLKCILQ
 LLQIDQEWVYPYSTASLYIRPTFIGTEPSLGVKKPSKALLFVILSPVGPYFSSGSFTPVSLWANPKYIRA
 WKGGTGDCKMGGNYGASLLAQCEAVENGCCQVLWLYGKDNQITEVGTMNLFYWINEDGEEELATPPLDG
 IILPGVTRQSILELAQQWGEFKVCRHLTMDDLATALEGNRVKEMFGSGTACVVCVPVSDILYKGMHLHIP
 TMENGPKLASRILGKLTDIQYGRVESDWTIELP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_001024468.3</u> , <u>NP_001019639.1</u>
RefSeq Size:	7849 bp
RefSeq ORF:	1362 bp
Locus ID:	12035
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]