

Product datasheet for **MR229441**

Bcat2 (NM_001243053) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bcat2 (NM_001243053) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bcat2
Synonyms: Bcat-2; Eca40
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229441 representing NM_001243053
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCAAGAACCACAGAAGAAGCCAGCCCCTAGCCAGGCACTGCTGTTGGGAAGACCTTCACAGACC
ACATGCTGATGGTGGAGTGAATAACAAGGCTGGATGGGGCCACCAAGGATCCAGCCCTCCAGAACCT
CACGCTACACCCAGCCTGCTCTGGTCTGCACTACTCTCTGCAGCTCTTTGAGGGCTTGAAGCATACAAA
GGTGGAGACCAGCAGGTACGCCTTCCGGCCCTGGCTCAACATGGACAGGATGCTACGTTCTGCTAGGC
GCCTCTGCCTGCCAGACTTTGACAAGCAGGAGCTGTTGGAGTGTATCCGCCAGCTCATTGAAGTAGACAA
AGACTGGGTTCCCGATGGCAACGGAACGAGCCTCTACGTGCGGCCGTGCTGATCGGGAATGAGCCCTCG
CTGGGTGTTGGTATGGTCACACAAGCCCTCCTGTACGTACATTCTGTGCCCTGTGGGCTCCTACTTCCCTG
GAGACTCCATGACACCTGTCTCCCTCCTGGCGGACCCTTCATTTCGTGAGCCTGGATAGGCGGAGTCGG
TGACTGCAAGTTGGGGGGAACATGGACCCACTGTGGCTGTGCAGCGAGAAGCCAGAAGAGAGGCTGC
GAGCAGGTCTCTGGCTGTACGGGCCAGACCACCAGCTCACTGAGGTGGCACCATGAACATCTTTGTCT
ACTGGACCCATGAAGACGGAGTACTGGAGCTGGTAACCCCCCACTGAATGGCGTCATCTTGCCTGGAGT
AGTTTCGACAAAGTCTGCTGGATCTGGCCAGGACTTGGGGTGGTTCGGGTGGCAGAACGCAAGGTCAC
ATGAAGGAATTGAAGCGGGCGCTGGAGGAAGGCCGAGTGCAGAGAAGTCTTCGGCTCAGGCACTGCTTGT
AGGTCTGCCCGGTGCACCAAATCCTGTATGAAGGCAAGCAACTCCACATACCTACCATGGAGAACGGCCC
AGAGCTCATCCTGCGCTTCCAGAAGGAAGTGAAGGCTATTTCAGTACGGAGCCAGTGGCCACGATTGGATG
TTTCGGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229441 representing NM_001243053
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MTKEPQKKPAPSQALLFGKTFTDHMLMVEWNNKAGWGPPIQPFQNLTLHPACSLHYSLQLFEGLKAYK
 GGDQQVRLFRPWLNMDRMLRSARRLCLPDFDKQELLECI RQLIEVDKDWVPDNGTSLYVRPVLIGNEPS
 LGVGMVTQALLYVILCPVGSYFPGDSMTPVSL LADPSFVRAWIGGVGDCKLGGNYGPTVAVQREAQKRGK
 EQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVTPPLNGVILPGVVRQSLDLARTWGEFRVAERKVT
 MKELKRALEEGRVREVFSGGTACQVCPVHQILYEKQLHIPTMENGPELILRFQKELKAIQYGASAHDMW
 FRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

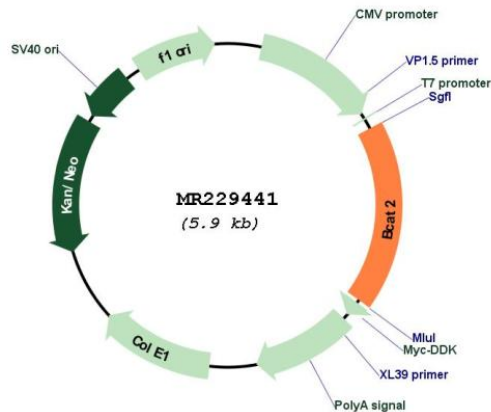
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243053

ORF Size:	1059 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001243053.1 , NP_001229982.1
RefSeq Size:	1692 bp
RefSeq ORF:	1062 bp
Locus ID:	12036
Cytogenetics:	7 29.36 cM
MW:	40.2 kDa
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]