

## Product datasheet for **RG228234**

### **BCAT2 (NM\_001164773) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BCAT2 (NM\_001164773) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** BCAT2  
**Synonyms:** BCAM; BCATM; BCT2; HVLI; PP18  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228234 representing NM\_001164773  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCCGAGCCGCTCTGGGGCAGCTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGC  
GCCTCTTCGCCCTGGCTCAACATGGACCGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTT  
CGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGCTCATCGAAGTGACAAGGACTGGGTCCCCGATGCC  
GCCGGCACCAGCCTCTATGTGCGGCTGTGCTCATTGGGAACGAGCCCTCGTGGGTGTCAGCCAGCCCA  
CGCGCGCTCCTGTTTCGTCATTCTCTGCCAGTGGGTGCCTACTCCCTGGAGGCTCCGTGACCCCGGT  
CTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCTGGGTGGGCGGGTCGGCAACTACAAGTTAGGTGGG  
AATTATGGGCCACCGTGTAGTGCAACAGGAGGCACTCAAGCGGGCTGTGAACAGTCCCTCTGGCTGT  
ATGGGCCGACCCAGCTCACCAGGTGGGAACCATGAACATCTTTGTCTACTGGACCCACGAAGATGG  
GGTGTGGAGCTGGTGACGCCCCGCTGAATGGTGTATCCTGCCTGGAGTGGTCAGACAGAGTCTACTG  
GACATGGCTCAGACCTGGGTGAGTTCGGGTGGTGGAGCGCACGATCACCATGAAGCAGTTGCTGCGGG  
CCCTGGAGGAGGGCCGCTGCGGAAGTCTTTGGCTCGGCACCCTTCCAGGTCTGCCAGTGCACCG  
AATCCTGTACAAAGACAGGAACCTCCACATCCACCATGGAAAATGGGCTGAGCTGATCCTCCGCTTC  
CAGAAGGAGCTGAAGGAGATCCAGTACGGAATCAGAGCCACGAGTGGATGTTCCCGGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**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\\_001164773.2](#)

**RefSeq Size:** 1340 bp

**RefSeq ORF:** 903 bp

**Locus ID:** 587

**UniProt ID:** [O15382](#)

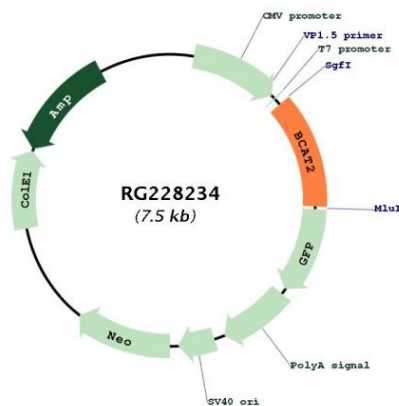
**Cytogenetics:** 19q13.33

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine biosynthesis, Valine, leucine and isoleucine degradation

**Gene Summary:** This gene encodes a branched chain aminotransferase found in mitochondria. The encoded protein forms a dimer that catalyzes the first step in the production of the branched chain amino acids leucine, isoleucine, and valine. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

### Product images:



Circular map for RG228234