

## Product datasheet for **SC319477**

### **BCAT2 (NM\_001190) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BCAT2 (NM_001190) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCAT2
Synonyms:	BCAM; BCATM; BCT2; HVLI; PP18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001190.2  
 CGCCGCACGGATCATGGCCGACGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTC  
 TGTCCCTTGGCTTCTGTGTGGTCCCAGAAGATATGCCTCCTCCAGTTTCAAGGCTGCAGA  
 CCTGCAGCTGAAATGACACAGAAGCCTCATAAGAAGCCTGGCCCCGGCGAGCCCTGGT  
 GTTTGGGAAGACATTTACCGACCACATGCTGATGGTGAATGGAATGACAAGGGCTGGGG  
 CCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCA  
 CTACTCCCTGCAGCTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAGACCAGCAGGTGCG  
 CCTCTTCCGCCCCGCTCAACATGGACCGGATGCTGCGCTCAGCCATGCGCCTGTGCT  
 GCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGGCTCATCGAAGTGACAA  
 GGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTATTGGGAA  
 CGAGCCCTCGTGGGTGTCAGCCAGCCCACGCGCGCTCCTGTTGCTATTCTCTGCC  
 AGTGGGTGCTACTTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCTGGCCGACCCAGC  
 CTTTCATCCGGCCTGGGTGGCGGGGTCCGCAACTACAAGTTAGGTGGGAATTATGGGCC  
 CACCGTGTAGTGCAACAGGAGGCACTCAAGCGGGCTGTGAACAGGTCCTCTGGCTGTA  
 TGGGCCCGACACCAGCTCACCGAGGTGGGAACCATGAACATCTTGTCTACTGGACCCA  
 CGAAGATGGGGTCTGGAGCTGGTGACGCCCCCGCTGAATGGTGTATCCTGCCTGGAGT  
 GGTGACAGAGTCTACTGGACATGGCTCAGACCTGGGGTGAATCCGGGTGGTGGAGCG  
 CACGATACCATGAAGCAGTTGCTGCGGGCCCTGGAGGAGGGCCGCTGCGGGAAGTCTT  
 TGGCTCGGGCACCCTTGCCAGGTCTGCCAGTGACCCGAATCCTGTACAAAGACAGGAA  
 CCTCCACATCCCACCATGGAAAATGGGCTGAGCTGATCCTCCGCTTCCAGAAGGAGCT  
 GAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGTGTGAAGCTGCAG  
 GCTGTGCTCCAGATCCACCGACCCGTAGCATCTCGTACGCCAGCACTCGCTCCCTACC  
 AATGACTCACCTGAAGTGAATACGAAAATAAAAGGCCAGCGGGCGCGTCTGGGTCTGTG  
 GCGCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAGGGCCGACCCAGGCATCTTGCC  
 CCCAGCCCTCGTCGCGGGTTCAGGTCCGCCATTACTCCTTGTGCTGCGGTCAAGGATA  
 CACCTTGCCCGGATTCCGGATCTCTCGTTCTCAGGCCAGACCCTGGTGTGCGGTTG  
 ATTTTTTTTTCTGTCTTTGCTGCAATTTTGAATAAAATGCCAAAGAACAAAAA  
 AAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001190

**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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001190.2</a></u> , <u><a href="#">NP_001181.2</a></u>
<b>RefSeq Size:</b>	1595 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	587
<b>UniProt ID:</b>	<u><a href="#">O15382</a></u>
<b>Cytogenetics:</b>	19q13.33
<b>Domains:</b>	aminotran_4
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine biosynthesis, Valine, leucine and isoleucine degradation
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (a) encodes the longest isoform (a), also known as PP18a.</p>