

## Product datasheet for **MC200818**

### **Baat (NM\_007519) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Baat (NM_007519) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Baat
Synonyms:	AI118337; AI158864; BAT
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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<b>Fully Sequenced ORF:</b>	<p>&gt;BC012683 sequence for NM_007519</p> <pre>CCACGCGTCGCCCACGCGTCCGCGAATAGTCTGCATTTTTAAAACTCTCCATTATCTACAGTGTGTG AGAGCCTTGGTTTGAGAGTCTCTGAGAAGTCTGGGCATCTGTGCTGACCGACAGGGCCTCTTCTCTAG AGCACACCACGTTCTGAGGGTGTCTGTAAGTACTGTTTTGGTGAAAAATTCCTGAAGAATTGTCCA AGATCCCTCTGCAAAAAATGGCCAAGTGCACAGCTGTTCTCTCAGTGTCTTGTGATGAGCCTGTGC ACATCCAGGTACAGGCCTGGCCCCCTTCAGGTGGTGTGCCTTCAGGCATCACTGAAAGATGAGAAGGG AAACCTGTTTAGTTCTCAGGCCTTCTACAGGGCCAGTGAAGTGGGTGAGGTAGACTGGAGCATGACCCC TCACTTGAGGAGACTATATGGGGTCCACCCCATGGGCCTTTCTGGTCTTGAACCTGAAAAGCTAT TGGGTAGATTGATAAAAAAGAGATGTGATGAATAGCCCCTACCAAAATCCACATAAAAAGCTTCCCATCCATA CTTTCCATTACAAGACATAGTCGTGAGTCTCCCTGGATAGCCTGACTCTGAAAAGGTGGTATGTGGCA CCTGGGGTCAAGAGGATCCAGGTAAAGGAAAGCCGCATCCGGGGAGCCCTGTTTCTGCCTCCAGGAGAAG GTCCTTTTCCAGGGTCAATTGACTTGTGGAGGTGCTGGTGGATTGATGGAGTCCGGGCCAGTCTTCT GGCAAGTCGTGGCTTGGCCACTTAGCTCTGGCTTACTGGAATATGATGACCTGCCTTCTCGACTGGAG AAGGTAGATCTAGAATATTTGAAGAAGGTGTAGAGTTTCTCCTGAGACATCCTAAGGTCCTCGGCCAG GTGTTGGCATCCTTCTGTATGCATTGGAGCAGAGATTGGACTTCTATGGCTATTAACCTAAAACAAAT AAGAGCCACTGTACTTATCAATGGGCCTAATTTGTTTCTCAAAGTCCACATGTATATCATGGTCAGGTC TACCCACCTGTACCCAGTAATGAAGAGTTGTAGTCACCAATGCCTTGGGACTTGTAGAATTCTATCGAA CCTTTCAGGAACTGCAGATAAGGACAGCAAAATATTGTTTTCCATTGAAAAAGCTCATGGACATTTCTT TTTTGTGGTTGGAGAAGATGATAAAAAATCTCAACAGCAAAGTGCATGCTAATCAAGCCATAGCACAGCTG ATGAAAAATGGAAAGAAGATTGGACTCTGCTGTCTTACCCTGGGGCAGGTCACCTGATTGAGCCTCCCT ATACCCCACTGTGCCAAGCCTCAAGGATGCCCATTTTGTATCCCAAGCCTCAGCTGGGGAGGAGAGTTAT CCCCATGCAGCTGCACAGGAGCATTCTTGAAGGAGATACAGAAATTTCTCAAGCAGCATCTCCTTCCA GATTTGAGCAGTCAGCTCTGAGTGGACTTGATTATATTCCTGGAAGTGGAGCTGGGCATCTCCTGGCCA GCACCCTCCTCACTTCCATAGAGGAATGCTTTGATCTTATCTGGCAAGGAAGGAGAGTACCAACAAG AAAATACAGGAGGATGGAGAGTATAACGTCTTGAATTTGGAAGGGGAAACATGTTTTCCATGGAATGAA ATGTCATGCAGTGAGAGCCCTATATCTACATGAATAAAATCGTAGGCCTTCTCTAAAATGTTCAACATCA TAGCAACTTTCTGTTATGATAATTATCAGGGAAATATCAGTGATAAACCCACAGAATACTTTTGTATATA AAAGAAACATGAAAATAAAAAAAAAAAAAA</pre>
<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	NM_007519
<b>Insert Size:</b>	684 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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="#">BC012683</a></u>

RefSeq Size: 1851 bp

RefSeq ORF: 684 bp

Locus ID: 12012

UniProt ID: [Q91X34](#)

Cytogenetics: 4 26.51 cM

**Gene Summary:** Involved in bile acid metabolism. In liver hepatocytes catalyzes the second step in the conjugation of C24 bile acids (choloneates) to taurine before excretion into bile canaliculi. The major components of bile are cholic acid and chenodeoxycholic acid. In a first step the bile acids are converted to an acyl-CoA thioester, either in peroxisomes (primary bile acids deriving from the cholesterol pathway), or cytoplasmic at the endoplasmic reticulum (secondary bile acids). May catalyze the conjugation of primary or secondary bile acids, or both. The conjugation increases the detergent properties of bile acids in the intestine, which facilitates lipid and fat-soluble vitamin absorption. In turn, bile acids are deconjugated by bacteria in the intestine and are recycled back to the liver for reconjugation (secondary bile acids). May also act as an acyl-CoA thioesterase that regulates intracellular levels of free fatty acids. In vitro, catalyzes the hydrolysis of long- and very long-chain saturated acyl-CoAs to the free fatty acid and coenzyme A (CoASH), and conjugates glycine to these acyl-CoAs. [UniProtKB/Swiss-Prot Function]