

Product datasheet for SC112712

BAAT (NM_001701) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAAT (NM_001701) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAAT
Synonyms:	BACAT; BACD1; BAT; HCHO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112712 sequence for NM_001701 edited (data generated by NextGen Sequencing)

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ATGATCCAGTTGACAGCTACCCCTGTGAGTGCACCTTGTGATGAGCCAGTGCATATCCAA
GCTACAGGCCTGATTCCCTTTCAGATGGTGGAGTTTTTCAGGCATCACTGGAAGATGAAAAC
GGAGACATGTTTTATTCTCAAGCCCACTATAGGGCCAATGAATTCGGTGAGGTGGACCTG
AATCATGCTTCTTCACTTGGAGGGGATTATATGGGAGTCCACCCCATGGGTCTCTTCTGG
TCTCTGAAACCTGAAAAGCTATTAACAAGACTGTTGAAAAGAGATGTGATGAATAGGCCCT
TTCCAGGTCCAAGTAAAACCTTTATGACTTAGAGTTAATAGTGAACAATAAAGTTGCCAGT
GCTCCAAAGGCCAGCCTGACTTTGGAGAGGTGGTATGTGGCACCTGGTGTACACGAATT
AAGGTTTCGAGAAGGCCCTTCGAGGAGCTCTCTTCTCCCTCCAGGAGAGGGTCTCTTC
CCAGGGTAATTGATTTGTTGGTGGTTTGGGTGGCTGCTTGAATTTTCGGGCCAGCCTC
CTAGCCAGTCGTGGCTTCGCCTCCTTGGCCTTGGCTTACCATAACTATGAAGACCTGCC
CGCAAACCAAGTAACAGATTTGGAATATTTTGAGGAGGCTGCCAACTTTCTCCTGAGA
CATCCAAGGTCTTTGGCTCAGGCGTTGGGGTAGTCTCTGTATGTCAAGGAGTACAGATT
GGACTATCTATGGCTATTTACCTAAAGCAAGTCACAGCCACGGTACTTATTAATGGGACC
AACTTTCTTTTGGCATTCCACAGGTATATCATGGTCAGATCCATCAGCCCTTCCCAT
TCTGCACAATTAATCCACCAATGCCTTGGGGTACTAGAGCTCTATCGCACTTTTGAG
ACAACCTCAAGTTGGGCCAGTCAATATTTGTTTCTATTGAAGAGGCCAGGGGCAATTC
CTCTTCATTGTAGGAGAAGGTGATAAGACTATCAACAGCAAAGCACACGCTGAACAAGCC
ATAGGACAGCTGAAGAGACATGGGAAGAACAACCTGGACCCTGCTATCTTACCCTGGGCA
GGCCACCTGATAGAACCTCCCTATTCTCCTCTGTGCTGTGCCCAACGACCCACGATTTG
AGGTTACTACTGGGAGGAGAGGTGATCCCACACGCAGCTGCACAGGAACATGCTTGAAG
GAGATCCAGAGATTTCTCAGGAAGCACCTCATTCCAGATGTGACCAGTCAACTCTAA

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Clone variation with respect to NM_001701.3

59 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001701 unedited</p> <pre>CGCCAGAAATTTGTATACGACTCATATAGGCGGCCGCGACATTCGCACCAGGTGACATCAC CCCCGGAGGCCAGCTGTAAATTCCTCTCTTTGTACTCTTTCTCTTTATTTCTCAGACCA GCCGACACTTAGGGAAAAAGAACCTACGCTGAAATTTGGGGGCAGGTTCTCTTGCTAG GTTTTGAGGTTTTGTGAAGATATTCTGAAGAATCATCCAGGTGCCACACTAAAAAAA TGATCCAGTTGACAGCTACCCCTGTGAGTGCACCTGTTGATGAGCCAGTGCATATCCAAG CTACAGGCCTGATCCCTTTTCAGATGGTGTGAGTTTTTCAGGCATCACTGGAAGATGAAAACG GAGACATGTTTTATTCTCAAGCCACTATAGGGCCAATGAATTCGGTGAAGTGGACCTGA ATCATGCTTCTTCACTTGAGGGGATTATATGGGAGTCCACCCCATGGTCTCTTCTGGT CTCTGAAACCTGAAAAGCTATTAACAAGACTGTTGAAAAGAGATGTGATGAATAGGCCTT TCCAGGTCCAAGTAAAACTTTATGACTTAGAGTTAATAGTGAACAATAAAGTTGCCAGTG CTCCAAAGGCCAGCCTGACTTTGGAGAGGTGGTATGTGGCACCTGGTGTACACGAATTA AGGTTTCGAGAAGGCCGCTTCGAGGAGCTCTTTCTCCCTCCAGGAGAGGGTCTCTTCC CAGGGTAATTGATTTGTTGGTGGTTAGGGTAGGGCTGCTTGAATTTTCAGGCCAGCCTC CTAGCCAGTCGTGGCTTCGCCTCCTTGGCCTTGGCTTACCATAACTATGAAGACCTGCC CGCAACCAAGAAGTACAGATTTGGAATATTCTTGAGGAGCTGCCAACTTTCTCTGAGACA NCCAAAGTCTTAGGCTCANGCGNTGGAGGTAGTCTCTGTATGTCAAGGNAGTC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001701 unedited</p> <pre>NTTTTTNNNNNNNTTATCTATGNACCGCGNCCGCAATCTANGATCGAGTTTTTTTTT TTTTTTTTTACTTTTATTAATTTTATTTTAAACAGATTTTCAGTAAGGGGCATTTTC AACCTAATTGGTCTATTTTCTGTATTTCCATTTAATTTGCTTCATAACTTAAACCA AGGCTCTTCCAGTCTTAGTTATTATGTCTCAGTTATGTGCCAATGGGCATGTTTTAAGA ACTGAAGAGGTAATTTATTGCAATGAACTAACTGACCTCCTCCATTCCTTCTTCTTTT TGACATGAATTTTACTACCCACAAATGAAAAATGATGTTGCAAAGTTACTGTGGTGAAG TTGAAAAATATCACTAAAATGATTATAATTTAGTATTAATTTTCTCTGTGCTCTAATC TGATAAATTTCTACTATATAGTGTTTTCTGACATGGTATTTGGTTTTATCTGTACTT TGGGGCTATTNNCTGTTGCCTTTTCTTATTTTTGCCAGTGTACTATACCTCAGTCTATT TAGAAGACCTGATGGNAAGAAAAGTCATGTAATAATAAAGTAAATGATTTGGTTTATGAT TTATCACCATGTCCAGTTTGGNTAAGCTGGTATGCAGAAAAGTAAAAATCAGTTTTTACC CTATGCTTTTTTAAATTTTAAATAATCAAATGTGTTGTCAGCTGGGGAAACCTCCCG CCTGAAAATGAGAAAAGGCCTGGTAAGAGATTTGCGTCTTATTTTCTAGGATATCTAGN CTTCTAGAGNTGACTGGCACATCTGGATGGAGGGCTTTCTGAGAATTCCTTGGATTNCTT TCAGCATGCTCTGACGTGCTGGGGATCACTCTCTCCAGTGTACTCAATCGTGGGTC GTGAGGCCAGACAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001701
Insert Size:	2170 bp
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).
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:

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_001701.2](#), [NP_001692.1](#)

RefSeq Size: 3108 bp

RefSeq ORF: 1257 bp

Locus ID: 570

UniProt ID: [Q14032](#)

Cytogenetics: 9q31.1

Domains: Bile_Hydr_Trans

Protein Pathways: Biosynthesis of unsaturated fatty acids, Metabolic pathways, Primary bile acid biosynthesis, Taurine and hypotaurine metabolism

Gene Summary: The protein encoded by this gene is a liver enzyme that catalyzes the transfer of C24 bile acids from the acyl-CoA thioester to either glycine or taurine, the second step in the formation of bile acid-amino acid conjugates. The bile acid conjugates then act as a detergent in the gastrointestinal tract, which enhances lipid and fat-soluble vitamin absorption. Defects in this gene are a cause of familial hypercholanemia (FHCA). Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.