

## Product datasheet for RC225667

### BAAT (NM\_001127610) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BAAT (NM_001127610) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAAT
Synonyms:	BACAT; BACD1; BAT; HCHO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225667 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCAGTTGACAGCTACCCCTGTGAGTGCCTTGTGATGAGCCAGTGCATATCCAAGCTACAGGCC  
TGATTCCTTTTCAGATGGTGAGTTTTTCAGGCATCACTGGAAGATGAAAACGGAGACATGTTTTATTCTCA  
AGCCACTATAGGGCCAATGAATTCGGTGAGGTGGACCTGAATCATGCTTCTTCACTTGGAGGGGATTAT  
ATGGGAGTCCACCCCATGGTCTCTTCTGGTCTCTGAAACCTGAAAAGCTATTAACAAGACTGTTGAAAA  
GAGATGTGATGAATAGGCCTTTCCAGTCCAAGTAAAACCTTTATGACTTAGAGTTAATAGTGAACAATAA  
AGTTGCCAGTGTCCAAAGGCCAGCCTGACTTTGGAGAGGTGGTATGTGGCACCTGGTGTACACGAATT  
AAGTTTCGAGAAGGCCGCTTCGAGGAGCTCTTTCTCCCTCCAGGAGAGGGTCTTCCAGGGGTAA  
TTGATTTGTTGGTGGTTTGGTGGGCTGCTTGAATTTCCGGCCAGCCTCCTAGCCAGTCGTGGCTTCGC  
CTCCTTGGCCTTGGCTTACCATAACTATGAAGACCTGCCCCGAAACCAGAAGTAACAGATTTGGAATAT  
TTTGAGGAGGCTGCCAATTTCTCTGAGACATCCAAAGGTCTTTGGCTCAGGCGTTGGGGTAGTCTCTG  
TATGTCAAGGAGTACAGATTGGACTATCTATGGCTATTTACCTAAAGCAAGTCACAGCCACGGTACTTAT  
TAATGGGACCAACTTTCCCTTTGGCATTCCACAGGTATATCATGGTCAGATCCATCAGCCCTTCCCCAT  
TCTGCACAATTAATATCCACCAATGCCTTGGGGTACTAGAGCTCTATCGCACTTTTGAGACAACCAAG  
TTGGGGCCAGTCAATATTTGTTTCTATTGAAGAGGCCAGGGGCAATTCCTTTCATTGTAGGAGAAGG  
TGATAAGACTATCAACAGCAAAGCACACGCTGAACAAGCCATAGGACAGCTGAAGAGACATGGGAAGAAC  
AACTGGACCCTGTATCTTACCCTGGGGCAGGCCACCTGATAGAACCCTCCTATTCTCTGTGTGTG  
CCTCAACGACCCACGATTTGAGGTTACTGTTGGGAGGAGGTGATCCCACACGCAGCTGCACAGGAACA  
TGCTTGAAGGAGATCCAGAGATTTCTCAGGAAGCACCTCATTCCAGATGTGACCAGTCAACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC225667 protein sequence  
Red=Cloning site Green=Tags(s)

MIQLTATPVLSALVDEPVHIQATGLIPFQMVSFQASLEDENGDMFYSAHYRANEFGEVDLNHASSLGGDY  
 MGVHPMGLFWSLKPEKLLTRLLKRDVMNRPFQVQKLYDLELIVNNKVASAPKASLTLERWYVAPGVTRI  
 KVREGRLRGALFLPPGEGLFPGVIDLFGGLGGLLEFRASLLASRGFASLALAYHNYEDLPRKPEVTDLEY  
 FEEAANFLLRHPKVFSGSGVGVSVQCGVQIGLSMAIYLKQVTATVLLINGTNFPFGIPQVYHGQIHQPLPH  
 SAQLISTNALGELLELYRTFETTQVGASQYLFPIEEAQGQFLFIVGEGDKTINSKAHAEQAIGQLKRHGKN  
 NWTLLSYPGAGHLIEPPYSPLCCASTTHDLRLHWGGEVIPHAAAQEHAWKEIQRFLRKHLLIPDVTSQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6436\\_d08.zip](https://cdn.origene.com/chromatograms/mk6436_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001127610

**ORF Size:** 1254 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:**

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\\_001127610.1](#), [NP\\_001121082.1](#)

**RefSeq Size:** 3377 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 570

**UniProt ID:** [Q14032](#)

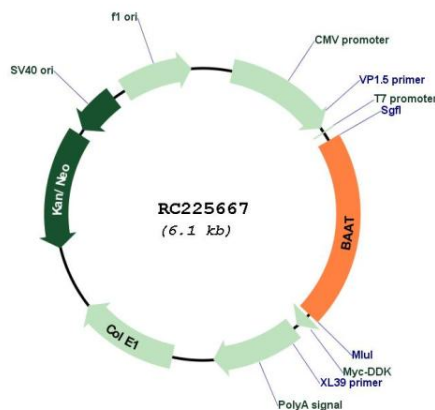
**Cytogenetics:** 9q31.1

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

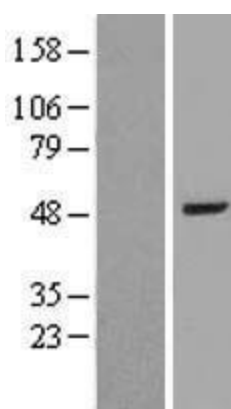
**MW:** 46.3 kDa

**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]

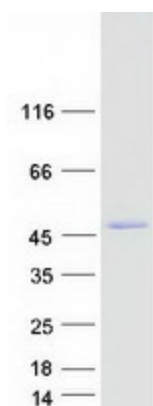
### Product images:



Circular map for RC225667



Western blot validation of overexpression lysate (Cat# [LY426822]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225667 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BAAT protein (Cat# [TP325667]). The protein was produced from HEK293T cells transfected with BAAT cDNA clone (Cat# RC225667) using MegaTran 2.0 (Cat# [TT210002]).