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Product datasheet for RC202722

BAAT (NM_001701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAAT (NM_001701) 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:

>RC202722 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCCAGTTGACAGCTACCCCTGTGAGTGCACTTGTTGATGAGCCAGTGCATATCCAAGCTACAGGCC
TGATTCCCTTTCAGATGGTGAGTTTTCAGGCATCACTGGAAGATGAAAACGGAGACATGTTTTATTCTCA
AGCCCACTATAGGGCCAATGAATTCGGTGAGGTGGACCTGAATCATGCTTCTTCACTTGGAGGGGATTAT
ATGGGAGTCCACCCCATGGGTCTCTTCTGGTCTCTGAAACCTGAAAAGCTATTAACAAGACTGTTGAAAA
GAGATGTGATGAATAGGCCTTTCCAGGTCCAAGTAAAACTTTATGACTTAGAGTTAATAGTGAACAATAA
AGTTGCCAGTGCTCCAAAGGCCAGCCTGACTTTGGAGAGGTGGTATGTGGCACCTGGTGTCACACGAATT
AAGGTTCGAGAAGGCCGCCTTCGAGGAGCTCTCTTTCTCCCTCCAGGAGAGGGTCTCTTCCCAGGGGTAA
TTGATTTGTTTGGTGGTTTGGGTGGGCTGCTTGAATTTCGGGCCAGCCTCCTAGCCAGTCGTGGCTTCGC
CTCCTTGGCCTTGGCTTACCATAACTATGAAGACCTGCCCCGCAAACCAGAAGTAACAGATTTGGAATAT
TTTGAGGAGGCTGCCAACTTTCTCCTGAGACATCCAAAGGTCTTTGGCTCAGGCGTTGGGGTAGTCTCTG
TATGTCAAGGAGTACAGATTGGACTATCTATGGCTATTTACCTAAAGCAAGTCACAGCCACGGTACTTAT
TAATGGGACCAACTTTCCTTTTGGCATTCCACAGGTATATCATGGTCAGATCCATCAGCCCCTTCCCCAT
TCTGCACAATTAATATCCACCAATGCCTTGGGGTTACTAGAGCTCTATCGCACTTTTGAGACAACTCAAG
TTGGGGCCAGTCAATATTTGTTTCCTATTGAAGAGGCCCAGGGGCAATTCCTCTTCATTGTAGGAGAAGG
TGATAAGACTATCAACAGCAAAGCACACGCTGAACAAGCCATAGGACAGCTGAAGAGACATGGGAAGAAC
AACTGGACCCTGCTATCTTACCCTGGGGCAGGCCACCTGATAGAACCTCCCTATTCTCCTCTGTGCTGTG
CCTCAACGACCCACGATTTGAGGTTACACTGGGGAGGAGAGGTGATCCCACACGCAGCTGCACAGGAACA
TGCTTGGAAGGAGATCCAGAGATTTCTCAGGAAGCACCTCATTCCAGATGTGACCAGTCAACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC202722 protein sequence
Red=Cloning site Green=Tags(s)

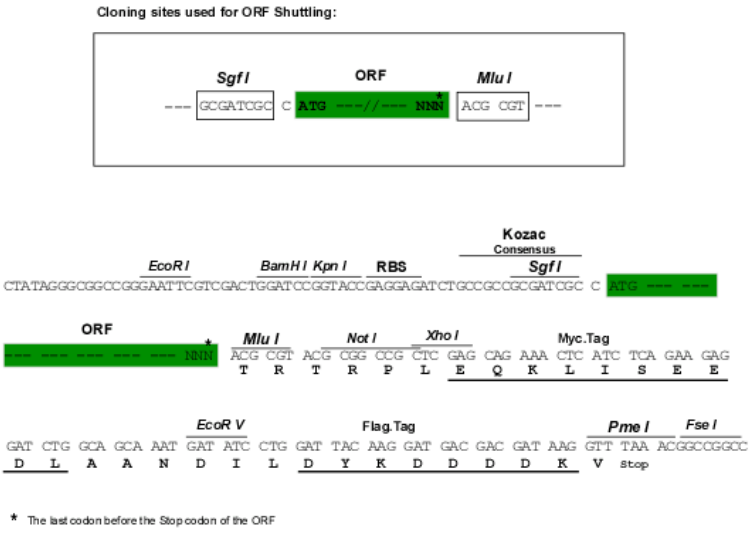
MIQLTATPVSALVDEPVHIQATGLIPFQMVSFQASLEDENGDMFYSQAHYRANEFGEVDLNHASSLGGDY
MGVHPMGLFWSLKPEKLLTRLLKRDVMNRPFQVQVKLYDLELIVNNKVASAPKASLTLERWYVAPGVTRI
KVREGRLRGALFLPPGEGLFPGVIDLFGGLGGLLEFRASLLASRGFASLALAYHNYEDLPRKPEVTDLEY
FEEAANFLLRHPKVFGSGVGVVSVCQGVQIGLSMAIYLKQVTATVLINGTNFPFGIPQVYHGQIHQPLPH
SAQLISTNALGLLELYRTFETTQVGASQYLFPIEEAQGQFLFIVGEGDKTINSKAHAEQAIGQLKRHGKN
NWTLLSYPGAGHLIEPPYSPLCCASTTHDLRLHWGGEVIPHAAAQEHAWKEIQRFLRKHLIPDVTSQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6436_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001701

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_001701.4

RefSeq Size: 3478 bp

RefSeq ORF: 1257 bp

Locus ID: 570

UniProt ID: Q14032

Cytogenetics: 9q31.1

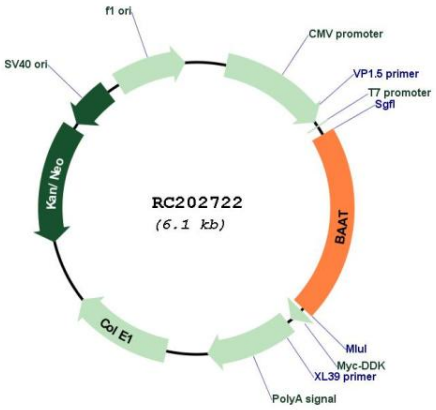
Domains: Bile_Hydr_Trans

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

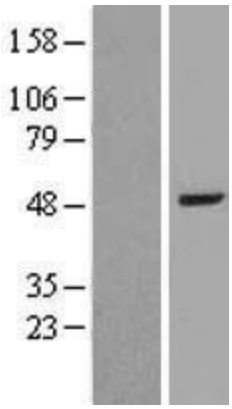
MW: 46.3 kDa

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 RC202722



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