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Product datasheet for MR206664

Baat (NM_007519) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Baat (NM_007519) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Baat
Synonyms:	AI118337; AI158864; BAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206664 representing NM_007519
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAAGCTGACAGCTGTTCCTCTCAGTGCTCTTGTTGATGAGCCTGTGCACATCCAGGTCACAGGCC
TGGCCCCCTTTCAGGTGGTGTGCCTTCAGGCATCACTGAAAGATGAGAAGGGAAACCTGTTTAGTTCTCA
GGCCTTCTACAGGGCCAGTGAAGTGGGTGAGGTAGATCTGGAGCATGACCCCTCACTTGGAGGAGACTAT
ATGGGGGTCCACCCCATGGGCCTTTTCTGGTCCTTGAAACCTGAAAAGCTATTGGGTAGATTGATAAAAA
GAGATGTGATGAATAGCCCCTACCAAATCCACATAAAAGCTTGCCATCCATACTTTCCATTACAAGACAT
AGTCGTCAGTCCTCCCTTGGATAGCCTGACTCTGGAAAGGTGGTATGTGGCACCTGGGGTCAAGAGGATC
CAGGTAAAGGAAAGCCGCATCCGGGGAGCCCTGTTTCTGCCTCCAGGAGAAGGTCCTTTTCCAGGGGTCA
TTGACTTGTTTGGAGGTGCTGGTGGATTGATGGAGTTCCGGGCCAGTCTTCTGGCAAGTCGTGGCTTTGC
CACCTTAGCTCTGGCTTACTGGAACTATGATGACCTGCCTTCTCGACTGGAGAAGGTAGATCTAGAATAT
TTTGAAGAAGGTGTAGAGTTTCTCCTGAGACATCCTAAGGTCCTCGGCCCAGGTGTTGGCATCCTTTCTG
TATGCATTGGAGCAGAGATTGGACTTTCTATGGCTATTAACCTAAAACAAATAAGAGCCACTGTACTTAT
CAATGGGCCTAATTTTGTTTCTCAAAGTCCACATGTATATCATGGTCAGGTCTACCCACCTGTACCCAGT
AATGAAGAGTTTGTAGTCACCAATGCCTTGGGACTTGTAGAATTCTATCGAACCTTTCAGGAAACTGCAG
ATAAGGACAGCAAATATTGTTTTCCCATTGAAAAAGCTCATGGACATTTCCTTTTTGTGGTTGGAGAAGA
TGATAAAAATCTCAACAGCAAAGTGCATGCTAATCAAGCCATAGCACAGCTGATGAAAAATGGAAAGAAG
AATTGGACTCTGCTGTCTTACCCTGGGGCAGGTCACCTGATTGAGCCTCCCTATACCCCACTGTGCCAAG
CCTCAAGGATGCCCATTTTGATCCCAAGCCTCAGCTGGGGAGGAGAGGTTATCCCCCATGCAGCTGCACA
GGAGCATTCTTGGAAGGAGATACAGAAATTTCTCAAGCAGCATCTCCTTCCAGATTTGAGCAGTCAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR206664 representing NM_007519
Red=Cloning site Green=Tags(s)

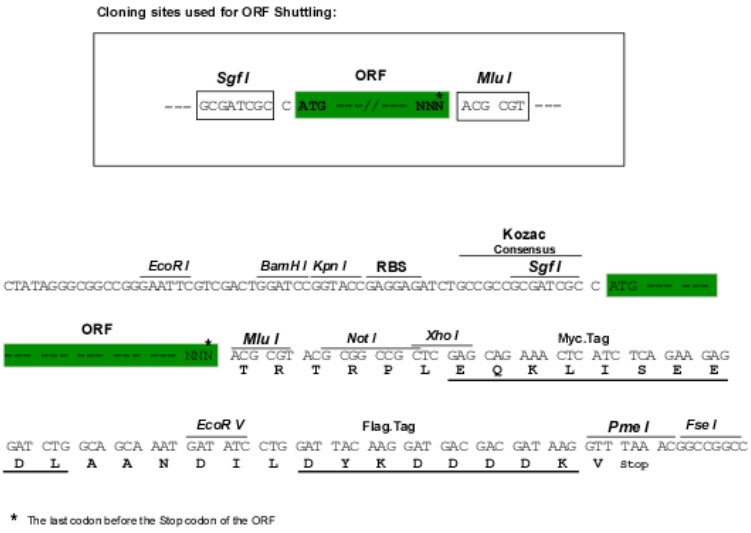
MAKLTAVPLSALVDEPVHIQVTGLAPFQVVCLQASLKDEKGNLFSSQAFYRASEVGEVDLEHDPSLGGDY
MGVHPMGLFWSLKPEKLLGRLIKRDVMNSPYQIHIKACHPYFPLQDIVVSPPLDSLTLERWYVAPGVKRI
QVKESRIRGALFLPPGEGPFPGVIDLFGGAGGLMEFRASLLASRGFATLALAYWNYDDLPSRLEKVDLEY
FEEGVEFLLRHPKVLGPGVGILSVCIGAEIGLSMAINLKQIRATVLINGPNFVSQSPHVYHGQVYPPVPS
NEEFVVTNALGLVEFYRTFQETADKDSKYCFPIEKAHGHFLFVVGEDDKNLNSKVHANQAIAQLMKNGKK
NWTLLSYPGAGHLIEPPYTPLCQASRMPILIPSLSWGGEVIPHAAAQEHSWKEIQKFLKQHLLPDLSSQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9057_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007519

ORF Size: 1260 bp

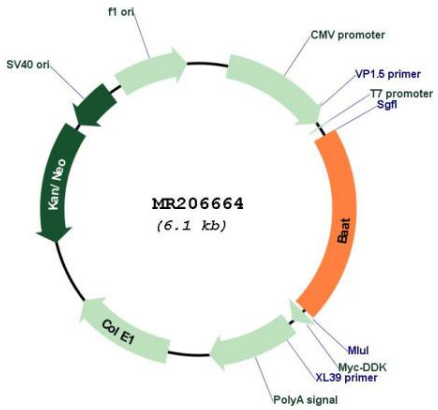
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_007519.3, NP_031545.2
RefSeq Size:	1961 bp
RefSeq ORF:	1263 bp
Locus ID:	12012
UniProt ID:	Q91X34
Cytogenetics:	4 26.51 cM
MW:	46.5 kDa
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]

Product images:



Circular map for MR206664