

## Product datasheet for **MG206664**

### Baat (NM\_007519) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Baat (NM_007519) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Baat
Synonyms:	AI118337; AI158864; BAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206664 representing NM_007519 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAAGCTGACAGCTGTTCTCTCAGTGCTCTTGTGATGAGCCTGTGCACATCCAGGTCACAGGCC  
TGGCCCCCTTTCAGGTGGTGTGCCTTCAGGCATCACTGAAAGATGAGAAGGAAACCTGTTTAGTCTCA  
GGCCTTCTACAGGGCCAGTGAAGTGGGTAGGTAGATCTGGAGCATGACCCCTCACTTGGAGGAGACTAT  
ATGGGGTCCACCCATGGCCCTTTCTGGTCTTGAACCTGAAAGCTATTGGGTAGATTGATAAAAA  
GAGATGTGATGAATAGCCCTACCAAATCCACATAAAAGCTTGCCATCCATACTTCCATTACAAGACAT  
AGTCGTCAGTCCCTTGGATAGCCTGACTCTGGAAAGGTGGTATGTGGCACCTGGGGTCAAGAGGATC  
CAGGTAAGGAAAGCCGATCCGGGGAGCCCTGTTTCTGCCTCCAGGAGAAGGTCCTTTCCAGGGGTCA  
TTGACTTGTGGAGGTGCTGGTGGATTGATGGAGTCCGGGCCAGTCTTCTGGCAAGTCGTGGCTTTGC  
CACCTTAGCTCTGGCTTACTGGAATAATGATGACCTGCCTTCTCGACTGGAGAAGGTAGACTAGAATAT  
TTTGAAGAAGGTGATAGATTTCTCCTGAGACATCCTAAGTCTCGGCCAGGTGTTGGCATCCTTTCTG  
TATGCATTGGAGCAGAGATTGGACTTTCTATGGCTATTAACCTAAAACAATAAGAGCCACTGTACTTAT  
CAATGGGCCTAATTTTGTCTCAAAGTCCACATGTATATCATGGTCAGGTCTACCCACCTGTACCCAGT  
AATGAAGAGTTTGTAGTCAACATGCCTTGGACTTGTAGAATTCTATCGAACCTTTCAGGAAACTGCAG  
ATAAGGACAGCAAATATTGTTTTCCATTGAAAAGCTCATGGACATTTCTTTTTGTGGTTGGAGAAGA  
TGATAAAAATCTCAACAGCAAAGTGCATGCTAATCAAGCCATAGCACAGCTGATGAAAAATGGAAAGAAG  
AATTGGACTCTGCTGTCTTACCCTGGGGCAGGTACCTGATTGAGCCTCCCTATACCCCACTGTGCCAAG  
CCTCAAGGATGCCATTTTATCCCAAGCCTCAGCTGGGGAGGAGAGTTATCCCCATGCAGCTGCACA  
GGAGCATTTTGGAAAGGAGATACAGAAATTTCTCAAGCAGCATCTCCTCCAGATTTGAGCAGTCAGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206664 representing NM\_007519  
 Red=Cloning site Green=Tags(s)

MAKLTAVPLSALVDEPVHIQVTGLAPFQVVCLQASLKDEKGNLFSSQAFYRASEVGEVDLEHDP SLGGDY  
 MGVHPMGLFWSLKPEKLLGRLIKRDVMNSPYQIHIKACHPYFPLQDIVVSPPLDSLTLERWYVAPGVKRI  
 QVKESRIRGALFLPPGEGPFPGVIDLFGGAGGLMEFRASLLASRGFATLALAYWNYDDLPSRLEKVDLEY  
 FEEGVEFLLRHPKVLGPGVGILSVCIGAEIGLSMAINLKQIRATV LINGPNFVSQSPHVVHGQVYPPVPS  
 NEEFVVTNALGLVEFYRTFQETADKDSKYCFPIEKAHGHFLFVVGEDDKNLNSKVHANQAI AQLMKNK  
 NWTLLSYPGAGHLIEPPYTPLCQASRMPILIPSLSWGGEVIPHAAAQEHSWKEIQKFLKQHLLPDLSSQL

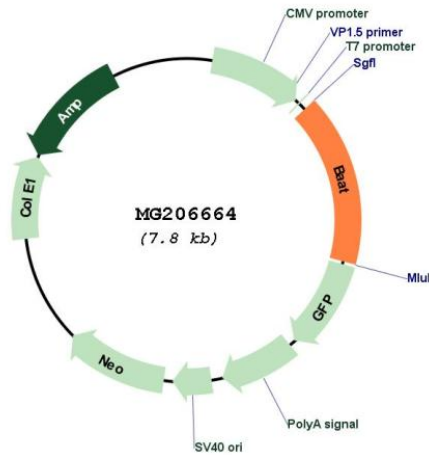
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_007519

<b>ORF Size:</b>	1260 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_007519.3</a> , <a href="#">NP_031545.2</a>
<b>RefSeq Size:</b>	1961 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	12012
<b>UniProt ID:</b>	<a href="#">Q91X34</a>
<b>Cytogenetics:</b>	4 26.51 cM
<b>Gene Summary:</b>	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]