

Product datasheet for **RN210830**

Mboat4 (NM_001107317) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mboat4 (NM_001107317) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mboat4
Synonyms:	RGD1566335
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN210830 representing NM_001107317
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTGGCTCCAGTTCTTCTTCTCCATCCTGTATCACTTTATCAAGGGGCTGCTTCCCTTCGCGC
 TTCTGTTAATTATCTCTGCATCACGGAATCCTTTCCACCCGGCCAGGTACCTCTTCTCCTGGCTGG
 AGGAGGTGCTCCTGGCTTTGGCCGCATGGGTCCCTACGCTCTGCTCATTTTCATCCCTGCTCTGTGCC
 GTGGCTATGATCTCCTCCCTCAGTCCACAGGAAGTCCATGGGCTGACTTTCTTCTTTCAGATGGGTGGC
 AAACCCTGTGCCACCTGGGTCTTCACTACAAGGAGTACTACCTGTGTGAGCCTCCCCCTGTGAGTTCTA
 CATCACTCTTCTTCCCTCATGCTTTGACGCAGAGAGTACGCTCTCTCCCTGGACATTTCTGAAGGG
 AAGGTGGAGGCAGCGTGGAGGGGACCAGGAGCAGGAGTCTTTGTGTGAGCACCTGTGGATGCTCTAC
 CCTATATCAGCTATTTGCTCTTTTCCCTGCCTCCTGGGAGGCTCCCTGTGTTCTTTCAGAGATTTCA
 GGCTTGCCTTCAAAGACCAAGGTCTTTGTATCCCAGTATCTTTCTGGGCTCTGACCTGGAGGGGTCTG
 CAGATCCTTGGGCTGGAGTGCCTCAAGGTGGCGCTGAGGAGGGTGGTGTGCTGGCGCTGGACTGGATG
 ATTGCCAGCGACTGGAGTGCATCTACATCATGTGGTCCACCGCTGGGCTCTTAAACTCACCTACTACTC
 CCACTGGATCCTGGACGACTCTCTCTTACGCGCGGGCTTTGGATCTGAGGCTGGCCAGAGGCCTGGA
 GAGGAGAGATACGTCCTGGATGTGGACATTTGGACATTGGAAACTACCCACAGGATCTCCCTGTTCCGCA
 GGCAGTGAACCGAAGCAGCTCAGTGGCTCAAGAGGCTTGTCTTCCAGAGGAGCCGGCGCTGGCCCGT
 GCTGCAGACTTTTGCCTTCTCTGCTGGTGGCAGGACTCCACCCAGGACAGGTGTTGGCTTCTGTGC
 TGGTCTGTGATGGTGAAGCCGACTATCTGATCCACACTTTTGCCAAATGGATGTATCAGATCCTGGCCCC
 TGCGGCTGCTTTATAGATCCCTCACTTGGGCCACACTCAGATCATATTGCTTACGTAATGCTGGCCGT
 GGAGGGCCGGAGCTTTTCTCTCTCTGCGGCTGTGCTGTTCTTACAACAGTATCTTCCCTGTAACGTAC
 TGCCTTTTGCTTTTTCTATTAGCGAGGAGAAAACAAGTGAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2124_d04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001107317

Insert Size: 1308 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_001107317.2</u> , <u>NP_001100787.2</u>
RefSeq Size:	1308 bp
RefSeq ORF:	1308 bp
Locus ID:	306515
UniProt ID:	<u>B1Q005</u>
Cytogenetics:	16q12.2
Gene Summary:	Mediates the octanoylation of ghrelin at 'Ser-3'. Can use a variety of fatty acids as substrates including octanoic acid, decanoic acid and tetradecanoic acid.[UniProtKB/Swiss-Prot Function]