

Product datasheet for **MC201694**

Mboat2 (NM_001083341) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Mboat2
Synonyms:	2810049G06Rik; AU022889; AW547221; LPCAT4; Moact2; Oact2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:	>BC025020 sequence for NM_001083341 AAGCAAGCGGCGCTGGCCGGAGCGAGCGGACGCGCGGAGGCCCGGCCATGGCCACCACCAGCACCA CGGGCTCCACCCTGCTGCAGCCCTCAGCAACGCCGTGCAACTGCCATCGATCAGGTCAACTTTGTAGT GTGCCAGCTCTTTGCCTTGTTAGCAGCCGTTTGGTTTCGAACTTATCTACACTCAAGCAAACTAGCTCT TTTATCAGACACGTAGTTGCTACCTTTTGGCCTTTATCTTGCATTTTTTGCTTTGGATGGTATGCCT TACACTTTCTGTACAAAGTGGGATTTCTACTGCATCATGATCATAGCAGGAGTGGAGAGCATGCAGCA CCCAATGATGATCATTACGCAGAAGATCACTAGTTTGGCTTACGAAATTCACGACGGGATGTTTCGGAAG GATGAAGAACTGACTCCGTCGCAGAGGGGATTAGCTGTGAGGCGCATGCCAAGTCTCCTGGAGTATGTAA GTTATACCTGCAACTTCATGGGCATCCTGGCAGGCCCACTGTGCTCCTACAAAGACTACATTGCCTTCAT TGAAGGCAGAGCATCCACGTGGCAGACGCCAGTGAATGGAAGAGCAGCAGCATGGGAAGCAGAT CCATCTCCAAATGCAGCAGTTACGGAGAAGCTCCTGGTCTGTGGACTCTCCTTATTATCCACCTGACCA TCTCCAACATGCTACCCGTGGAGTACAACATCGATGAGCATTTCGAAGCACTGCGTGTGGCCGACTAA AGCCACCTATCTGTACGTCTCTCTTGGCTGCCAGACCTAAGTACTATTTGCATGGACCTTAGCTGAC GCCATTAACAATGCTGCGGGCTTCGGTTTCAGAGGATACGACAAGAATGGAGTGGCTCGTGGGACTTAA TTTCCAACCTTGAGAATTCAGCAATAGAGATGTCAACAAGTTTAAAGATGTTTCTTGATAACTGGAATAT CCAGACAGCTCTTTGGCTCAAAAGGGTGTGCTATGAACGAGCAACCTTCAGTCCGACAATCCAGACATTC TTTCTCTCTGCCATTTGGCATGGGGTCTACCCAGGATACTATCTGACATTCCTAACGGGAGTGCTAATGA CGTTAGCAGCTCGGGCTGTGAGAAATACTTTAGGCACTATTTCTGGAGCCCCCTCAACTTAAGTTATT TTATGACCTCATAACCTGGGTGGCCACCCAGATAACAATAAGTTACACAGTTGTTCCGTTTGTGCTCCTC TCCATAAAACCGTCGTTACGTTTTACAGCTCCTGGTATTACTGCCTTCACGTCTGTAGTATCTTGGTGT TGCTGTTGCTGCCTGTGAAAAAGTCTCAAAGAAGAACGAGCACACAGGAAATGTTTCATCTCTACAGGC CAAAAGTTTGACGAAAGGGACAATCCTCTGGGACAGAACAGTTTTTCCACGATGAATAACGTTTGCAAT CAGAACCGAGACACTGGCTCCAGACACTCGTCACTAACACAGTGACTGCGAGAGCGTGTGATGGCTGTTT CCCGGCTGTGAACAGAGCCAGTCTTGAGGCCCTTGCAGAGCCTCTGTTTAAGGAAGAGAGACTAACTG GGTGGAAGGGATGGTCTCGGATAGGGGGTTTCTATACACTAGATTGGAATGGAAGAGATAACCCCT CCCATGCCATGTTCTGTGGGTACGCCTTATACAAATCTTCCCTTGTTCATAGGGCACTCTGACCT CAGCATCTGCCCTCAAGGTATCTGTGTACCCTGTTGCTGAATGTACACTGCGTATCCCAAGGCACTGAA GAGGTGGAATAATCATGTCTGTCTGGATGATTAACTTTTCCAAATGAATGTCTTGCTTAAATCTTCC TAAATGTTGTTCCCGATGGTATTTCAGGTGTAATCGTGAGGAGACGATTTAGTATTCGATATGG TGTGCTACAGAGAGGATTAGGGAAGTCTAAACAGATACTTAAGATCGTGGGTACTTTAAAAATGCAA TAAACATCTCAGTATTCGAAGGGTTTCTTAAGGTATCTTAGAGGACTGTGTGCATGGTGGGACTGTAA CAGTCAGGGCTTAATTACAGGTGTCAGTCAGGGGCCCTTCTAGGAGGACTTTCTTAACATAATTAAG GTTGTAATGTGATATTTAGGCTATTTTCTTAAGAACAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_001083341
Insert Size:	1464 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC025020, AAH25020</u>
RefSeq Size:	2224 bp
RefSeq ORF:	1464 bp
Locus ID:	67216
UniProt ID:	<u>Q8R3I2</u>
Cytogenetics:	12 A1.3
Gene Summary:	Acyltransferase which mediates the conversion of lysophosphatidylcholine (1-acyl-sn-glycero-3-phosphocholine or LPC) into phosphatidylcholine (1,2-diacyl-sn-glycero-3-phosphocholine or PC) (LPCAT activity). To a lesser extent, also catalyzes the acylation of lysophosphatidylethanolamine (1-acyl-sn-glycero-3-phosphoethanolamine or LPE) into phosphatidylethanolamine (1,2-diacyl-sn-glycero-3-phosphoethanolamine or PE) (LPEAT activity). Prefers oleoyl-CoA as the acyl donor. Lysophospholipid acyltransferases (LPLATs) catalyze the reacylation step of the phospholipid remodeling pathway also known as the Lands cycle.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (b), that is missing an internal segment compared to isoform a.