

Product datasheet for **MC203010**

Mboat7 (NM_029934) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mboat7 (NM_029934) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mboat7
Synonyms:	5730589L02Rik; BB1; Leng4; Lpiat; Lpiat1; mBB1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC023417
 GGGACCTCCTAGAAAAGATCGCGACAGGCATCTTGCGGCAGACTGGTGTCTGGGTACCTTTCTTGCGGTG
 CTGTAACCTCGTACAGCCGCGGCTCTCGGGGCTGGACCGCGCAGCCCTGCCGGCGCCGTCCAGAACGGGC
 AGTGCGGGGGCGTGCTGAGCTGGGGAGGCGTGGCGCGAGCCGAGGCGGCCCTCGAAAAGGAGCTCCGCAGT
 TTTCTGGCCACGGACGGTTTACACCATGACACCCGAAGAATGGACATATCTAATGGTCTTCTTATCTC
 CATCCCTGTTGGCTTCTCTTTAAGAAAAGCTGGACCTGGGCTGAAGAGATGGGGGCGAGCAGCTGTGGGC
 CTGGGGCTCACCTTATTACCTGTGCCCCACAGTTTGCATTCTCTGATCACCATCTTGGGAACCTGGG
 CCCTCATTCAAGCCAGCCCTGCTCCTGCCATGCCCTGGCTCTTGCTGGACCTTCTCTATCTCCTCTT
 CTTCCGAGCCCTCAGCCTGCTGGCCTGCCACTCCCACGCCCTTACCAATGCTGTCCAGCTGCTGTTG
 ACACTGAAGTTGGTGAGTCTAGCTAGTGAAGTCCAGGATCTGCATCTGGCTCAGAGAAAGGAAATAGCCT
 CCGGCTTCCACAAGGAGCCTACGCTGGGCTCCTCCCTGAGGTCCCCTCTTTGATGGAGACTCAGCTA
 TAGCTACTGTTACGTGGGAATCATGACAGGCCATTCTCCGCTACCGCACCTACCTGGATTGGTGAA
 CAGCCCTTCCCGAAGCCGTGCCAGCCTGAGGCCCTGCTGCGCCGCGCCTGGCCAGCCCCGCTTTTG
 GCCTGCTCTTCTGCTGCTCCTCCATCTCTTCCACTGGAAGCTGTGCGTGAGGACGCCCTTACGCCCC
 CCCGCTGCCACCCGCTTCTACATGATCCCGTCTTCTTCCGCTTCCGATGCGCTTCTACGTTGCC
 TGGATTGCGGCCGAGTGCAGTTCATTGCGCGGGCTTCGGGGCTACCTGTGGCTGCCAAAGCCCGGG
 CCGGGGGCGGCCACCCTCCAATGCCACCCCTAGCAGTCCGGAGATTGCAGCTTCCCTGGAGTATGA
 CTATGAGACCATCCGTAACATCGACTGCTATGGCACAGACTTCTGCGTGCCTGTGCGGGATGGCATGCGA
 TACTGGAACATGACCGTGCAGTGGTGGCTGGCACAGTACATCTACAAGAGCGCACCTTTCTGCTCCTACG
 TTTTGAGGAGTGCCTGGACCATGCTGTTGAGTGCCTACTGGCATGGCCTCCACCTGGTTACTACCTAAG
 CTTTATGACCATCCCGCTGTGCCTGGCTGCTGAGGGCTATTTGGAGTCAGCCTTGGGAGACACCTGAGC
 CCCGGGGCCAGAAAGCCTGGGACTGGTCCACTGGTTCCTGAAGATGCGTGCCTACGACTACATGTGCA
 TGGGCTTTGTGCTCCTTTCCATGGCTGACACACTCCGGTACTGGGCTCCATCTACTTCTGGGTCCACTT
 TCTAGCCCTGGCCTGCTTGGGGCTGGGGCTGGTTTTGGGTGGGGCAGCCCCAGCAAGAGGAAGACACCA
 TCCCAGGCTACAGCAGCAAGCGAAGGAAAAGCTCCGGGAAGAGTGAGCTCTGCTGCATTGGCCTGCCT
 TCCAGTTCAAGCTTTTTTGGGAATTCATGAACCAGGCTGTTTGGTTGGGGTTTTTGGTTTGGTTTGT
 TTGTTTCTTTACCCAGCAAGAATCCCTTGTGGCTAAGAGCCTGGAGAGGATCCCTCTTCCCAAATA
 ATTCTCTGCCTTCTATTTAAAGCTAAGGTATCCTTCTCTTGGGCTCTCTCAGCATCTTGACCTTTTCAG
 ACCTTCTCTGCTAACATCAGGGTATTACTATCCACTCTTGAACCTATTATCTCTGCAACAATCTTCAGA
 TGTTCAAAAAGCCACACTTCCAAAAATGCCCTTGCAGGGACAGTGGTATCTGGCATCTTAGACAGAC
 TCCAGTGGGTCCCAGTATGGGGCAGGAACCTCAGGGCCAGGTTCTGGGAGAGGGGAGGGATAGCCTT
 CTTGTTTTCTCTTTGTTTTATCATCACACCAGTGTTCAGAGACCATGGTCTTACACATGCTGAAGGA
 GAAGCTAAAATGTGAGAAGCCCCAGGGAGCTTGTCTTACAGCAGCTTCTGCCTGAGCCATTTCTGGGC
 TCCCCATAACAACCTACCACCCAGTGCATCCTTGGCCTGTGACAGGCCAGAATGTATAAAGCTTTCCCAA
 TAAAGTGTACACATGCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_029934

Insert Size: 1422 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.

RefSeq: [BC023417](#), [AAH23417](#)

RefSeq Size: 2342 bp

RefSeq ORF: 1422 bp

Locus ID: 77582

UniProt ID: [Q8CHK3](#)

Cytogenetics: 7 A1

Gene Summary: Acyltransferase which contributes to the regulation of free arachidonic acid (AA) in the cell through the remodeling of phospholipids. Mediates the conversion of lysophosphatidylinositol (1-acylglycerophosphatidylinositol or LPI) into phosphatidylinositol (1,2-diacyl-sn-glycero-3-phosphoinositol or PI) (LPIAT activity). Prefers arachidonoyl-CoA as the acyl donor (PubMed:23097495). Lysophospholipid acyltransferases (LPLATs) catalyze the reacylation step of the phospholipid remodeling pathway also known as the Lands cycle (By similarity). Required for cortical lamination during brain development (PubMed:23097495). [UniProtKB/Swiss-Prot Function]