

## Product datasheet for **MR207891**

### **Mboat1 (NM\_153546) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mboat1 (NM_153546) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mboat1
Synonyms:	9130215M02Rik; BC023845; LPEAT1; Moact1; Oact1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207891 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCACGGCCGCCCGCCAGCCTCTCTTACCGTACCACCGGCTCCACCTGCCTGCACCCGCTCAGCC  
 AGCTCCTGGGCATCCCGCTGGATCAGGTTAACTTTGTGGCTTGCCAGCTCTTTGCCTTGTCTGCTGCTTT  
 CTGGTTCAGAATCTACTTACATCCTGGTAAAGCCAGCCCTGAGGTCGGGCACACCTTGGCCACCATTTTG  
 GGCATCTATTTTGTGTGTTTTGTTTTGGTTGGTATGCTGTACATCTCTTTGTGCTGGTGTGTATGTGTT  
 ATGGGGTCATGGTCACTGCAAGTGTATCCAATATTACAGGATTCCTTTTTTGTAGCCATGGGCTACCT  
 TACGATATGCCACATCAGCCGATTTACATCTTCCACTATGGAATTCCTACTACAGATTTTTCTGGGCC  
 CTGATGATTGTCCTCAGAAGATCAGCAGTTGGCTTTCCAAGTTCATGATGGATTGGGTCGAAAAGCTG  
 AAGACCTTCTGCTGAGCAACACCGACTTGTGTGAAAGCGAAGCCCTCGCTTCTGGAATACTTAAGCTA  
 CCATCTCAACTTTATGAGTGTCTAGCCGGCCCTTGAACAATTTCAAGGACTACGTAGCCTTCATCGAA  
 GGGAGACATATACACATGAAGTTGCTGGAAGTGAAGTGGACGCAAGGGGTTCCAGAGTTTCCAGAGC  
 TTCTCCCATGGGAGCTGTGATACAGAAGTTGTGTGTGACCTTGATGTCTCTCCTGTTGTTTTGACGCT  
 CTCCAAGTCTTTCCCGTCACTTCTTATTGATGACTGGTTGTACATAAGGCCAACTTTCTGAGTCGT  
 CTCTGGTACTTATATGTCGTCTATGCAAGCCGCAAGCCCAAGTATTACTTTGCGTGGACATTAGCAGATG  
 CGGTGCACAAATGCAGCTGGATTCCGGTTCAATGGCATGGACACGGATGGGAACTCCTGCTGGGATTTACT  
 ATCTAACCTGAACATCTGGAAGATTGAGACTGCCACGAGTTTCAAATGTACTTGGAAAAGTGGAAATATT  
 CAGACATCTACGTGGCTGAAATGTGTGTCTATGAGCGGGTCCCTGGTACCCACAGTGCCTCACCTTCC  
 TCCTGTCTGCTGTGGCACGGCTCTACCTGGATACTTCTCACATTCTCACTGGAGTCCCTGTCAC  
 ATTGGCAGCCAGAGCGGTGAGGAACAACACTACAGACACCCTTCCCTCTTCCAAAGCTCGAAAGATTGCC  
 TATGACGTGGTGACCTGGGCTGTCACTCAGTTGGCTGTCTTTACACGGCAGCGCCTTTCGTCTGTTGG  
 CAGTCGAGCCAACCATCAGTTTATAACAAGTCCGTGTTCTTTTTTTTACACATCATATGCTGCTGATAAT  
 CCTTTTCTGCCAATCAAACCACACCAGCTCAAAGGCAGTCTCGGAGTCCAAATCTGTAAGAAGAAG  
 GCAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207891 protein sequence  
 Red=Cloning site Green=Tags(s)

MAARPPASLSYRTTGSTCLHPLSQLLGIPLDQVNFVACQLFALSAAFWFRIYLHPGKASPEVRHTLATIL  
 GIYFVFCFGWYAVHLFVLVLMCYGVMVTASVSNIHRYSFVAMGYLTICHISRIYIFHYGILTTDFSGP  
 LMIVTQKITTAFQVHDGLGRKAEDLSAEQHLAVKAKPSLLEYSYHLNFMFSVIAGPCNFKDYVAFIE  
 GRHIHMKLLLEVNTQRGFQSLPEPSPMGAVIQKLCVTLMSLLLFLTLKSFVPTFLIDDWFVHKANFLSR  
 LWYLYVVMQAAKPKYYFAWTLADAVHNAAGFGFNGMDTDGKSRWDLNLSNLIWKIETATSFKMYLENWNI  
 QTSTWLKVCYERVPWYPTVLFLLSALWHGVYPGYFTFLTGPVTLAARAVRNNYRHHFLSSKARKIA  
 YDVVTWAVTQLAVSYTAAPFVMLAVEPTISLYKSVFFLHIICLLIILFLPIKPHQPQRQSRSPNSVKKK  
 AD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_153546

**ORF Size:** 1479 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\\_153546.4](#)

**RefSeq Size:** 2881 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 218121

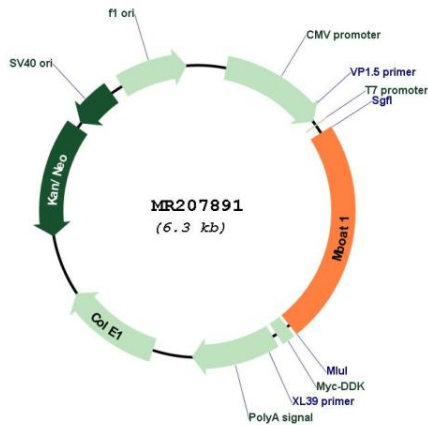
**UniProt ID:** [Q8BH98](#)

**Cytogenetics:** 13 A3.2

**MW:** 56.2 kDa

**Gene Summary:** Acyltransferase which mediates the conversion of lysophosphatidylethanolamine (1-acyl-sn-glycero-3-phosphoethanolamine or LPE) into phosphatidylethanolamine (1,2-diacyl-sn-glycero-3-phosphoethanolamine or PE) (LPEAT activity). Catalyzes also the acylation of lysophosphatidylserine (1-acyl-2-hydroxy-sn-glycero-3-phospho-L-serine or LPS) into phosphatidylserine (1,2-diacyl-sn-glycero-3-phospho-L-serine or PS) (LPSAT 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]

**Product images:**



Circular map for MR207891