

Product datasheet for **MG207891**

Mboat1 (NM_153546) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mboat1 (NM_153546) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mboat1
Synonyms:	9130215M02Rik; BC023845; LPEAT1; Moact1; Oact1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207891 representing NM_153546
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCACGGCCGCCAGCCTCTTACCGTACCACCGGCTCCACCTGCCTGCACCCGCTCAGCC
 AGCTCCTGGGCATCCCGCTGGATCAGGTTAACTTTGTGGCTTGCCAGCTCTTTGCCCTTGTCTGCTGCTTT
 CTGGTTCAAGATCTACTTACATCCTGGTAAAGCCAGCCCTGAGGTCGGGCACACCTTGGCCACCATTTTG
 GGCATCTATTTTGTGTGTTTTGTTTGGTTGGTATGCTGTACATCTCTTTGTGCTGGTGTGTATGTGTT
 ATGGGGTCATGGTCACTGCAAGTGTATCCAATATTACAGGATTCCTTTTTGTAGCCATGGGCTACCT
 TACGATATGCCACATCAGCCGATTTACATCTTCCACTATGGAATTCCTACTACAGATTTTTCTGGGCC
 CTGATGATTGTCCTCAGAAGATCAGACGTTGGCTTTCCAAGTTCATGATGGATTGGGTCGAAAAGCTG
 AAGACCTTCTGCTGAGCAACACCGACTTGTGTGAAAGCGAAGCCCTCGCTTCTGGAATACTTAAGCTA
 CCATCTCAACTTTATGAGTGTCTAGCCGCCCCTTGCAACAATTTCAAGGACTACGTAGCCTTCATCGAA
 GGGAGACATATACACATGAAGTTGCTGGAAGTGAAGTGGACGCAAGGGGTTCCAGAGTTTCCAGAGC
 TTCTCCCATGGGAGCTGTGATACAGAAGTTGTGTGTGACCTTGATGTCTCTCCTGTTGTTTTGACGCT
 CTCCAAGTCTTTCCCGTCACTTCTTATTGATGACTGGTTGTACATAAGGCCAACTTTCTGAGTCGT
 CTCTGGTACTTATATGTCGTCTATGCAAGCCGAAAGCCAAAGTATTACTTTGCGTGGACATTAGCAGATG
 CGGTGCACAAATGCAGCTGGATTCCGGTTCAATGGCATGGACACGGATGGGAAGTCTCGCTGGGATTTACT
 ATCTAACCTGAACATCTGGAAGATTGAGACTGCCACGAGTTTCAAATGTAAGTGGAAAAGTGGAAATATT
 CAGACATCTACGTGGCTGAAATGTGTGTCTATGAGCGGGTCCCTGGTACCCACAGTGTCCACCTTCC
 TCCTGTCTGCTGTGGCACGGCTCTACCTGGATACTACTTACATTCCTAACTGGAGTCCCTGTCAC
 ATTGGCAGCCAGAGCGGTGAGGAACAACACTACAGACACCCTTCCCTCTTCCAAAGCTCGAAAGATTGCC
 TATGACGTGGTGACCTGGGCTGTCACTCAGTTGGCTGTCTTTACACGGCAGCGCCTTTCGTCTGTTGG
 CAGTCGAGCCAACCATCAGTTTATAACAAGTCCGTGTTCTTTTTTTTACACATCATATGCTGCTGATAAT
 CCTTTTCTGCCAATCAAACCACACCAGCTCAAAGGCAGTCTCGGAGTCCAAATCTGTAAGAAGAAG
 GCAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

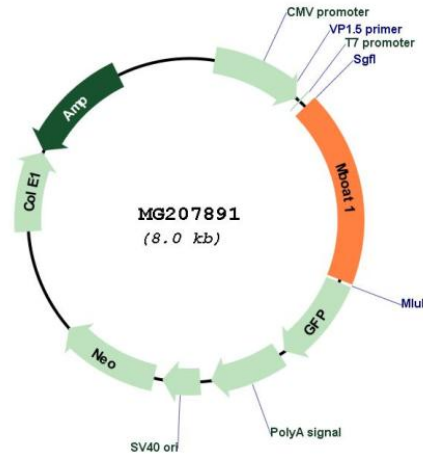
>MG207891 representing NM_153546
 Red=Cloning site Green=Tags(s)

MAARPPASLSYRTTGSTCLHPLSQLLGIPLDQVNFVACQLFALSAAFWFRIYLHPGKASPEVRHTLATIL
 GIYFVVFVCFGWYAVHLFVLVLMCYGVMVTASVSNIHRYSFVAMGYLTICHISRIYIFHYGILTTDFSGP
 LMIVTQKITTLAFQVHDGLGRKAEDLSAEQHLAVKAKPSLLELYSYHLNFMMSVIAGPCNNFKDYAFIE
 GRHIHMKLLLEVNWTQRGFQSLPEPSPMGAVIQKLCVTLMSLLLFLTLKSFVPTFLIDDFVHKANFLSR
 LWYLYVVMQAAKPKYYFAWTLADAVHNAAGFGFNGMDTDGKSRWDLNLSNLIWKIETATSFKMYLENWNI
 QTSTWLKVCYERVPWYPTVLTFLLSALWHGVYPGYFTFLTGPVTLAARAVRNNYRHHFLSSKARKIA
 YDVVTVAVTQLAVSYTAAPFVMLAVEPTISLYKSVFFLHIICLLIILFLPIKPHQPQRQSRSPNSVKKK
 AD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:


ACCN: NM_153546

ORF Size: 1476 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: 2900 bp

RefSeq ORF: 1479 bp

Locus ID: 218121

UniProt ID: [Q8BH98](#)

Cytogenetics: 13 A3.2

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]