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Product datasheet for SC127912

MBOAT2 (NM_138799) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MBOAT2
Synonyms:	LPAAT; LPCAT4; LPEAT; LPLAT 2; OACT2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC127912 sequence for NM_138799 edited (data generated by NextGen Sequencing)

ATGGCCACCACCAGCACCACGGGCTCCACCCTGCTGCAGCCCCTCAGCAACGCCGTGCAG
CTGCCCATCGACCAGGTCAACTTTGTAGTGTGCCAACTCTTTGCCTTGCTAGCAGCCATT
TGGTTTCGAACTTATCTACATTCAAGCAAAACTAGCTCTTTTATAAGACATGTAGTTGCT
ACCCTTTTGGGCCTTTATCTTGCACTTTTTTGCTTTGGATGGTATGCCTTACACTTTCTT
GTACAAAGTGGAATTTCCTACTGTATCATGATCATCATAGGAGTGGAGAACATGCACAAT
TACTGCTTTGTGTTTGCTCTGGGATACCTCACAGTGTGCCAAGTTACTCGAGTCTATATC
TTTGACTATGGACAATATTCTGCTGATTTTTCAGGCCCAATGATGATCATTACTCAGAAG
ATCACTAGTTTGGCTTGCGAAATTCATGATGGGATGTTTCGGAAGGATGAAGAACTGACT
TCCTCACAGAGGGATTTAGCTGTAAGGCGCATGCCAAGCTTACTGGAGTATTTGAGTTAC
AACTGTAACTTCATGGGGATCCTGGCAGGCCCACTTTGCTCTTACAAAGACTACATTACT
TTCATTGAAGGCAGATCATACCATATCACACAATCTGGTGAAAATGGAAAAGAAGAGACA
CAGTATGAAAGAACAGAGCCATCTCCAAATACTGCGGTTGTTCAGAAGCTCTTAGTTTGT
GGGCTGTCCTTGTTATTTCACTTGACCATCTGTACAACATTACCTGTGGAGTACAACATT
GATGAGCATTTTCAAGCTACAGCTTCGTGGCCAACAAAGATTATCTATCTGTATATCTCT
CTTTTGGCTGCCAGACCCAAATACTATTTTGCATGGACGCTAGCTGATGCCATTAATAAT
GCTGCAGGCTTTGGTTTCAGAGGGTATGACGAAAATGGAGCAGCTCGCTGGGACTTAATT
TCCAATTTGAGAATTCAACAAATAGAGATGTCAACAAGTTTCAAGATGTTTCTTGATAAT
TGGAATATTCAGACAGCTCTTTGGCTCAAAAGGGTGTGTTATGAACGAACCTCCTTCAGT
CCAACTATCCAGACGTTCATTCTCTCTGCCATTTGGCACGGGGTATACCCAGGATATTAT
CTAACGTTTCTAACAGGGGTGTTAATGACATTAGCAGCAAGAGCTATGAGAAATAACTTT
AGACATTATTTCATTGAACCTTCCCAACTGAAATTATTTTATGATGTTATAACATGGATA
GTAACTCAAGTAGCAATAAGTTACACAGTTGTGCCATTTGTGCTTCTTTCTATAAAACCA
TCACTCACGTTTTACAGCTCCTGGTATTATTGCCTGCACATTCTTGGTATCTTAGTATTA
TTGTTGTTGCCAGTGAAAAAAACTCAAAGAAGAAAGAATACACATGAAAACATTCAGCTC
TCACAATCCAAAAAGTTTGATGAAGGAGAAAATTCTTTGGGACAGAACAGTTTTTCTACA
ACAAACAATGTTTGCAATCAGAATCAAGAAATAGCCTCGAGACATTCATCACTAAAGCAG
TGA

Clone variation with respect to NM_138799.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138799 unedited

GCGAATTCGGCACCAGGCACAGCGCGAGCGGGCGAGCGGCGCGGGCGGCCGGAGCGCCGA
GGCCCGGCCATGGCCACCACCAGCACCACGGGCTCCACCCTGCTGCAGCCCCTCAGCAAC
GCCGTGCAGCTGCCCATCGACCAGGTCAACTTTGTAGTGTGCCAACTCTTTGCCTTGCTA
GCAGCCATTTGGTTTCGAACTTATCTACATTCAAGCAAAACTAGCTCTTTTATAAGACAT
GTAGTTGCTACCCTTTTGGGCCTTTATCTTGCACTTTTTTGCTTTGGATGGTATGCCTTA
CACTTTCTTGTACAAAGTGGAATTTCCTACTGTATCATGATCATCATAGGAGTGGAGAAC
ATGCACAATTACTGCTTTGTGTTTGCTCTGGGATACCTCACAGTGTGCCAAGTTACTCGA
GTCTATATCTTTGACTATGGACAATATTCTGCTGATTTTTCAGGCCCAATGATGATCATT
ACTCAGAAGATCACTAGTTTGGCTTGCGAAATTCATGATGGGATGTTTCGGAAGGATGAA
GAACTGACTTCCTCACAGAGGGATTTAGCTGTAAGGCGCATNGCCAGCTTACTGGAGTAT
TTGAGTTACAACTGTAACTTCATGGGGATCCTGGCAGGCCCACTTTGCTCTTACAAGACT
ACATTACTTTGCATTGAGGCAGATCATACCATATCACACAATCTGGGTGAAAATGGAAAG
AAGAGACACAGTATGAAAGACAGAGCCATCTCAATACTGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_138799 unedited
NAGGAACTCGTGTATGGCAACTTCCTGTCCAGNANAGCACTGCCGGAGGGTCACAGGGAT
GCCACCCGGGNATCTCGTTCAGGTAAACAGCTATGACCGCGGCCGCAATCTANAGTCGAG
TTTTTTTTTTTTTTTTTTGTGAGACGGAGTCTTCCTCTGTCACCCGGGCTGGAGTGCATT
CGCACAATTTTAACTCATTGCATCCCCCACCTCCCATGTTTTTTTAATTCCCCTGCCTCA
TCCTCCCAAGTTGCTGTTATTACAACCGCGCTCCACCTCGCCCGTCTAATTTTCGTGCTC
CCAATAAATACCTCCATTACCCACTTTTGCCCCGCTGGCCTTTAACCCCTGCCCCATCGT
GATCCGTCCCACTCTGCATCCCATTATCCGAAGAATCCCGGCGAAAGCCACCACCCCTCA
CGGAGAATCATCTTACTCCTTTGTCACACTATTTGCCCATCACATAACCCTCATTTCCCC
CCTTGCGGCGGCTCATCATCATAGAATCCGCCCCGCGTCCCTGTTTAGCCCCTCAAACCA
ATCAATCCACTATTTAACCCCCCAAATTTCTCCCGCCGCGCCATAATGTGGCATCTCCCC
CCCATTGTCCAGCCGCTCCGCGGCTCTGCCGATTCCCCCATCCGCCACCTCCGCTCTTCC
ACGCCTTTCCCCAACCGGCACGCCGTTATTACTATACCTCTCATTATACCCGACCCCTCT
TCTCTATTTCACCCCCATGCTCACCGCCCGTCTTCTTTCACATCCATCCTCATCCTCACA
CCTTCTCTATCATAATTACACAGCACGTTGCCTCTCGCTTGTCACCCGCTCTNTGTCTCC
CCCCCTCTTTATTATTTCTGTCTATTTCCAGACACTCCCGATGGTACTCCACTGCACACC
GGTGTATGCGTCTCCTCCACCCAACTTCTATTTTTAGACCTCCTTACTTATTTCCCCCTC
GCCGCCCG

Restriction Sites: NotI-NotI

ACCN: NM_138799

Insert Size: 4100 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: NM_138799.2, NP_620154.2

RefSeq Size: 3804 bp

RefSeq ORF: 1563 bp

Locus ID: 129642

UniProt ID:	Q6ZWT7
Cytogenetics:	2p25.1
Domains:	MBOAT
Protein Families:	Transmembrane
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 lysophosphatidic acid (LPA) into phosphatidic acid (PA) (LPAAT activity). Has also a very weak lysophosphatidylcholine acyltransferase (LPCAT 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]