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Product datasheet for MR207548

Mboat7 (NM_029934) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mboat7 (NM_029934) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mboat7
Synonyms:	5730589L02Rik; BB1; Leng4; Lpiat; Lpiat1; mBB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR207548 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACCCGAAGAATGGACATATCTAATGGTCCTTCTTATCTCCATCCCTGTTGGCTTCCTCTTTAAGA
AAGCTGGACCTGGGCTGAAGAGATGGGGGGCAGCAGCTGTGGGCCTGGGGCTCACCTTATTCACCTGTGG
CCCCCACAGTTTGCATTCTCTGATCACCATCTTGGGAACCTGGGCCCTCATTCAGGCCCAGCCCTGCTCC
TGCCATGCCCTGGCTCTTGCCTGGACCTTCTCCTATCTCCTCTTCTTCCGAGCCCTCAGCCTGCTGGGCC
TGCCCACTCCCACGCCCTTCACCAATGCTGTCCAGCTGCTGTTGACACTGAAGTTGGTGAGTCTAGCTAG
TGAAGTCCAGGATCTGCATCTGGCTCAGAGAAAGGAAATAGCCTCCGGCTTCCACAAGGAGCCTACGCTG
GGCCTCCTCCCTGAGGTCCCCTCTTTGATGGAGACACTCAGCTATAGCTACTGTTACGTGGGAATCATGA
CAGGCCCATTCTTCCGCTACCGCACCTACCTGGATTGGCTGGAACAGCCCTTCCCGGAAGCCGTGCCCAG
CCTGAGGCCCCTGCTGCGCCGCGCCTGGCCAGCCCCGCTCTTTGGCCTGCTCTTCCTGCTGTCCTCCCAT
CTCTTCCCACTGGAAGCTGTGCGTGAGGACGCCTTCTACGCCCGCCCGCTGCCCACCCGCCTCTTCTACA
TGATCCCGGTCTTCTTCGCCTTCCGCATGCGCTTCTACGTTGCCTGGATTGCGGCCGAGTGCGGTTGCAT
TGCCGCGGGCTTCGGGGCCTACCCTGTGGCTGCCAAAGCCCGGGCCGGGGGCGGCCCCACCCTCCAATGC
CCACCCCCTAGCAGTCCGGAGATTGCAGCTTCCCTGGAGTATGACTATGAGACCATCCGTAACATCGACT
GCTATGGCACAGACTTCTGCGTGCGTGTGCGGGATGGCATGCGATACTGGAACATGACCGTGCAGTGGTG
GCTGGCACAGTACATCTACAAGAGCGCACCTTTCTGCTCCTACGTTTTGAGGAGTGCCTGGACCATGCTG
TTGAGTGCCTACTGGCATGGCCTCCACCCTGGTTACTACCTAAGCTTCATGACCATCCCGCTGTGCCTGG
CTGCTGAGGGCTATTTGGAGTCAGCCTTGCGGAGACACCTGAGCCCCGGGGGCCAGAAAGCCTGGGACTG
GGTCCACTGGTTCCTGAAGATGCGTGCCTACGACTACATGTGCATGGGCTTTGTGCTCCTTTCCATGGCT
GACACACTCCGGTACTGGGCCTCCATCTACTTCTGGGTCCACTTTCTAGCCCTGGCCTGCTTGGGGCTGG
GGCTGGTTTTGGGTGGGGGCAGCCCCAGCAAGAGGAAGACACCATCCCAGGCTACCAGCAGCCAAGCGAA
GGAAAAGCTCCGGGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

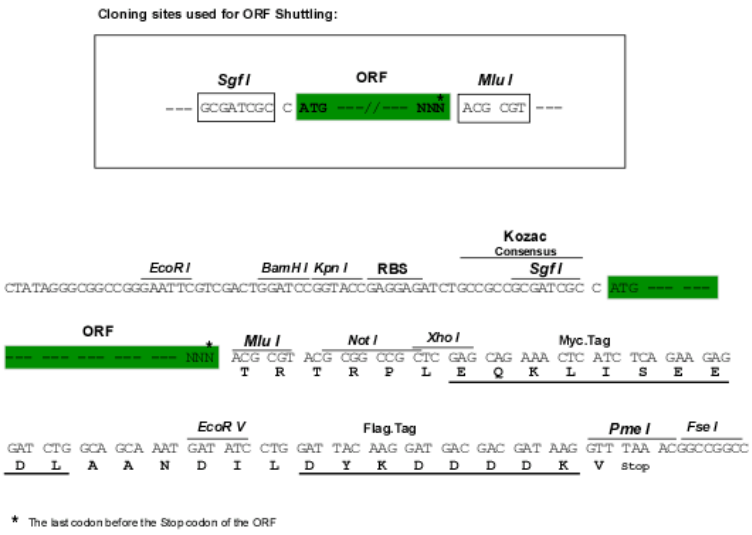
>MR207548 protein sequence
Red=Cloning site Green=Tags(s)

MTPEEWTYLMVLLISIPVGFLFKKAGPGLKRWGAAAVGLGLTLFTCGPHSLHSLITILGTWALIQAQPCS
CHALALAWTFSYLLFFRALSLLGLPTPTPFTNAVQLLLTLKLVSLASEVQDLHLAQRKEIASGFHKEPTL
GLLPEVPSLMETLSYSYCYVGIMTGPFFRYRTYLDWLEQPFPEAVPSLRPLLRRAWPAPLFGLLFLLSSH
LFPLEAVREDAFYARPLPTRLFYMIPVFFAFRMRFYVAWIAAECGCIAAGFGAYPVAAKARAGGGPTLQC
PPPSSPEIAASLEYDYETIRNIDCYGTDFCVRVRDGMRYWNMTVQWWLAQYIYKSAPFCSYVLRSAWTML
LSAYWHGLHPGYYLSFMTIPLCLAAEGYLESALRRHLSPGGQKAWDWVHWFLKMRAYDYMCMGFVLLSMA
DTLRYWASIYFWVHFLALACLGLGLVLGGGSPSKRKTPSQATSSQAKEKLREE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029934

ORF Size: 1422 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_029934.1, NM_029934.2, NM_029934.3, NP_084210.2

RefSeq Size: 2880 bp

RefSeq ORF: 1422 bp

Locus ID: 77582

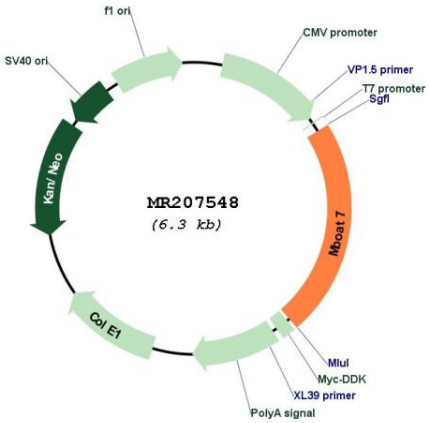
UniProt ID: Q8CHK3

Cytogenetics: 7 A1

MW: 53.4 kDa

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]

Product images:



Circular map for MR207548