

Product datasheet for **SC327468**

LENG4 (MBOAT7) (NM_001146082) Human Untagged Clone

Product data:

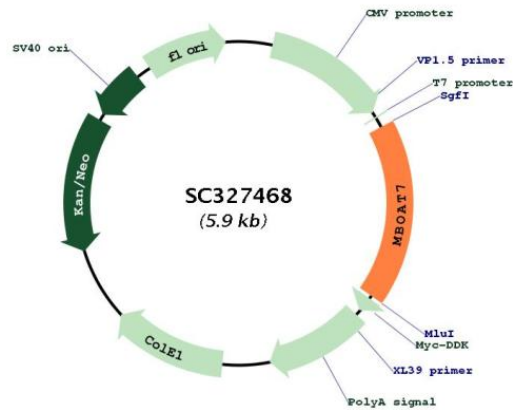
Product Type:	Expression Plasmids
Product Name:	LENG4 (MBOAT7) (NM_001146082) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBOAT7
Synonyms:	BB1; hMBOA-7; LENG4; LPIAT; LPLAT; LRC4; MBOA7; MRT57; OACT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327468 representing NM_001146082. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTCCATCCCCATCGGCTTCTCTTTAAG
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GCCAGTGAAGTCCAGGACCTGCATCTGGCCAGAGGAAGAAATGGCCTCAGGCTCAGCAAGGGGCC
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GTGCCAGCCTGCGGCCCTGCTGCGCCGCGCCTGGCCGGCCCGCTCTTCGGCCTGCTGTTCTGCTC
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CTTTCTACATGATCCCGTCTTCTTCGCTTCCGATGCGCTTCTACGTGGCCTGGATTGCCGCCGAG
TGCGGCTGCATTGCCCGCGCTTGGGGCTACCCCGTGGCCGCAAGCCCGGGCCGAGGCGGCC
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CGCAACATCGACTGCTACAGCACAGATTTCTGCGTGGGGTGGCGATGGCATGCCGTAAGGACATG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001146082

Insert Size: 1035 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001146082.2](#)

RefSeq Size: 2085 bp

RefSeq ORF: 1035 bp

Locus ID: 79143

UniProt ID: [Q96N66](#)

Cytogenetics: 19q13.42

Protein Families: Transmembrane

MW: 38.5 kDa

Gene Summary: This gene encodes a member of the membrane-bound O-acyltransferases family of integral membrane proteins that have acyltransferase activity. The encoded protein is a lysophosphatidylinositol acyltransferase that has specificity for arachidonoyl-CoA as an acyl donor. This protein is involved in the reacylation of phospholipids as part of the phospholipid remodeling pathway known as the Land cycle. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]
Transcript Variant: This variant (4) differs in the 3' UTR and coding region, compared to variant 1. The encoded isoform (3) has a shorter and distinct C-terminus, compared to isoform 1.