

Product datasheet for RC228875

LENG4 (MBOAT7) (NM_001146083) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LENG4 (MBOAT7) (NM_001146083) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LENG4
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)
ORF Nucleotide Sequence:	>RC228875 representing NM_001146083 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGCAGCCGCTGTGGGCTGGGGCTCACCTGTTACCTGTGGCCCCACACTTTGCATTCTCTG
GTCACCATCCTCGGGACCTGGGCCCTATTAGGCCAGCCCTGCTGGTGAGCCTGGCCAGTGAAGTCCA
GGACCTGCATCTGGCCAGAGGAAGAAATGGCCTCAGGCTTACGAAGGGGCCACCTGGGGCTGCTG
CCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGGCCGT
TCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCGGGGCAGTGGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCCTGGCCGGCCCCGCTCTTCGGCCTGCTGTTCTCTGCTCTCCTCTCACCTCTTCCCG
CTGGAGGCCGTGCGCGAGGACGCCTTCTACGCCGCCCGCTGCCCGCCCGCTTCTACATGATCCCCG
TCTTCTTCGCCTTCCGCATGCGCTTCTACGTGGCCTGGATTGCCGCCGAGTGCGGCTGCATTGCCGCCGG
CTTTGGGGCCTACCCCGTGGCCGCCAAAGCCCGGGCCGGAGGCCGCCACCCCTCCAATGCCACCCCC
AGCAGTCCGGAGAAGGCGGCTTCTTGGAGTACTGACTATGAGACCATCCGCAACATCGACTGCTACAGCA
CAGATTCTGCGTGCGGGTGCAGATGGCATGCCGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCA
GTATATCTACAAGAGCGCACCTGCCCGTTCCTATGTCTGCGGAGCGCCTGGACCATGCTGCTGAGCGCC
TACTGGCAGGCCCTCACCCGGGCTACTACCTGAGCTTCTGACCATCCCGCTGTGCTGGCTGCCGAGG
GCCGGCTGGAGTCAGCCCTGCGGGGCGGCTGAGCCAGGGGGCCAGAAGGCCTGGGACTGGGTGCACTG
GTTCTGAAGATGCGCGCCTATGACTACATGTGCATGGGCTTCGTGCTGCTCTCCTTGGCCGACACCCTT
CGGTAAGTGGCCCTCCATCTACTTCTGTATCCACTTCTGGCCCTGGCAGCCCTGGGGCTGGGGCTGGCTT
TAGGTGGGGCAGCCCCAGCCGGCGGAAGGCAGCATCCCAGCCCACCAGCCTTGGCCCGGAGAAGCTCCG
GGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC228875 representing NM_001146083
Red=Cloning site Green=Tags(s)

MGSSRCGPGAHPVHLWPPHFAFSGHPRDLGPHSGPALLVSLASEVQDLHLAQRKEMASGFSKGPTLGLL
 PDVPSLMETLSYSYCYVGIMTGPFPRYRTYLDWLEQPPGAVPSLRPLLRRAWPAPLFGLLFLLSSHLFP
 LEAVREDAFYARPLPARLFYMIPIVFFAFRMRFYVAWIAAECGIAAGFGAYPVAAKARAGGGPTLQCPPP
 SSPEKAASLEYDYETIRNIDCYSTDFCVRVRDGMRYWNMTVQWLAQYIYKSAPARSYVLRSAWTMLLSA
 YWHGLHPGYLFLTIPLCLAAEGRLESALRGRLSPGGQKAWDWVHWFLKMRAYDYMCMGFVLLSLADTL
 RYWASIYFCIHFLAALGLGLALGGGSPSRKKAASQPTSLAPEKLREE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001146083

ORF Size: 1197 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_001146083.2](#)

RefSeq ORF: 1200 bp

Locus ID: 79143

UniProt ID: [Q96N66](#)

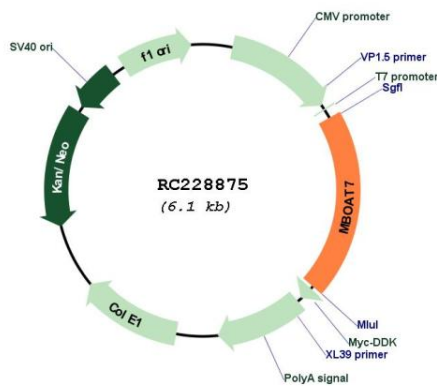
Cytogenetics: 19q13.42

Protein Families: Transmembrane

MW: 44.6 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]

Product images:



Circular map for RC228875