

Product datasheet for **RG228833**

LENG4 (MBOAT7) (NM_001146082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LENG4 (MBOAT7) (NM_001146082) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MBOAT7
Synonyms:	BB1; hMBOA-7; LENG4; LPIAT; LPLAT; LRC4; MBOA7; MRT57; OACT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228833 representing NM_001146082 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTCCATCCCCATCGGCTTCTCTTTAAGA
AAGCCGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGCCTGGGGCTCACCTGTTACCTGTGG
CCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTATTAGGCCACGCCCTGCTCC
TGCCACGCCCTGGCTCTGGCCTGGACTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAGCCTCCTGGCC
TGCCCACTCCCAGCCCTCACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCTGGCCAG
TGAAGTCCAGGACCTGCATCTGGCCAGAGGAAGGAAATGGCCTCAGGCTTCAGCAAGGGGCCACCCCTG
GGGCTGCTGCCCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGA
CAGGCCGGTCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCAGGGCAGTGCCAG
CCTGCGGCCCTGCTGCGCCGCGCTGGCCGGCCCCGCTCTTGGCCTGCTGTTCTGCTCTCCTCTCAC
CTTCCCCTGGAGGCCGTGCGCGAGGACGCCTTACGCCCGCCGCTGCCCGCCGCTCTTCTACA
TGATCCCGTCTTCTCGCTCCGCATGCGCTTCTACGTGGCCTGGATTGCCCGGAGTGCGGCTGCAT
TGCCCGCGCCTTGGGGCTACCCGTGGCCGCAAAGCCCGGGCGGAGCGGCCCCACCTCCAATGC
CCACCCCGCAGTCCGAGAAGCGGCTTCTTGGAGTATGACTATGAGACCATCCGCAACATCGACT
GCTACAGCACAGATTTCTGCGTGCGGGTGCGCGATGGCATGCGGTACTGGAACATGACGGTGCAGTGGT
GCTGGCGCAGTATATCTACAAGAGCGCACCTGCCGTTCTATGTCTGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228833 representing NM_001146082
 Red=Cloning site Green=Tags(s)

MSPEEWTYLVLLISIPIGFLFKKAGPGLKRWGAAAVGLGLTLFTCGPHTLHSLVTILGTWALIQAPCS
 CHALALAWTFSYLLFFRALSLGLPTPTPFTNAVQLLLTLKLVSLASEVQDLHLAQRKEMASGFSGPTL
 GLLPDVPSLMETLSYSYCVGIMTGPFFRFRYTYLDWLEQPFPGAVPSLRPLLRRAWPAPLFGLLFLSSH
 LFPLEAVREDAFYARPLPARLFYMIPIVFFAFRMRFYVAWIAAECGCIAGLGAYPVAAKARAGGGPTLQC
 PPPSSPEKAASLEYDYETIRNIDCYSTDFCVRVRDGMRYWNMTVQWLLAQYIYKSAPARSYVLR

TRTRPLE - GFP Tag - V

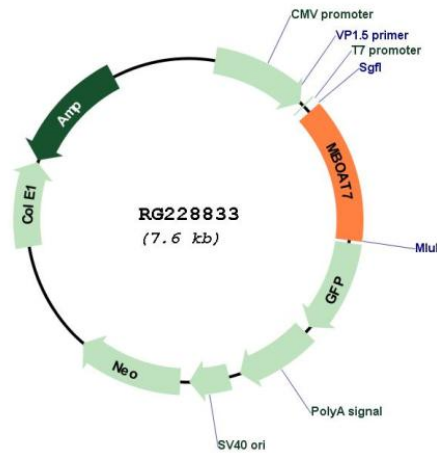
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001146082

ORF Size: 1032 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:	<ol style="list-style-type: none">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_001146082.1 , NP_001139554.1
RefSeq Size:	2038 bp
RefSeq ORF:	1035 bp
Locus ID:	79143
UniProt ID:	Q96N66
Cytogenetics:	19q13.42
Protein Families:	Transmembrane
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]