

## Product datasheet for **RG228876**

### **LENG4 (MBOAT7) (NM\_001146056) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LENG4 (MBOAT7) (NM_001146056) 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:	>RG228876 representing NM_001146056 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAGCAGCCGCTGTGGCCTGGGGCTCACCTGTTACCTGTGGCCCCACACTTTGCATTCTCTG  
GTCACCATCCTCGGGACCTGGGCCCTATTAGGCCAGCCCTGCTGGTGGAGCTGGCCAGTGAAGTCCA  
GGACCTGCATCTGGCCAGAGGAAGAAATGGCCTCAGGCTTACGCAAGGGGCCACCTGGGGCTGCTG  
CCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGGCCGT  
TCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCGGGGCAGTGGCCAGCCTGCGGCC  
CCTGCTGCGCCGCGCCTGGCCGGCCCGCTCTTGGCCTGCTGTTCTGCTCTCCTCTCACCTCTTCCCG  
CTGGAGGCCGTGCGCGAGGACGCCTTCTACGCCCGCCCGCTGCCCGCCCGCTTCTACATGATCCCCG  
TCTTCTTGCCTTCCGCATGCGCTTCTACGTGGCTGGATTGCCGCCGAGTGGCGCTGCATTGCCCGCG  
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AGCAGTCCGGAAGGCGGCTTCTTGGAGTACTGACTATGAGACCATCCGCAACATCGACTGCTACAGCA  
CAGATTTCTGCGTGGGGTGGCGATGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCA  
GTATATCTACAAGAGCGCACCTGCCCGTTCCTATGTCTGCGGAGCGCTGGACCATGCTGCTGAGCGCC  
TACTGGCAGGCCCTCACCCGGCTACTACCTGAGCTTCTGACCATCCCGCTGTGCTGGCTGCCGAGG  
GCCGGCTGGAGTCAGCCCTGCGGGGCGGCTGAGCCAGGGGCCAGAAGGCCTGGGACTGGGTGCACTG  
GTTCTGAAGATGCGCGCTATGACTACATGTGCATGGGCTTCGTGCTGCTCTCCTTGGCCGACACCCTT  
CGGTACTGGCCCTCCATCTACTTCTGTATCCACTTCTGGCCCTGGCAGCCCTGGGGCTGGGGCTGGCTT  
TAGGTGGGGCAGCCCCAGCCGGCGGAAGGCAGCATCCCAGCCCACCAGCCTTGGCCCGAGAAGCTCCG  
GGAGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228876 representing NM\_001146056  
 Red=Cloning site Green=Tags(s)

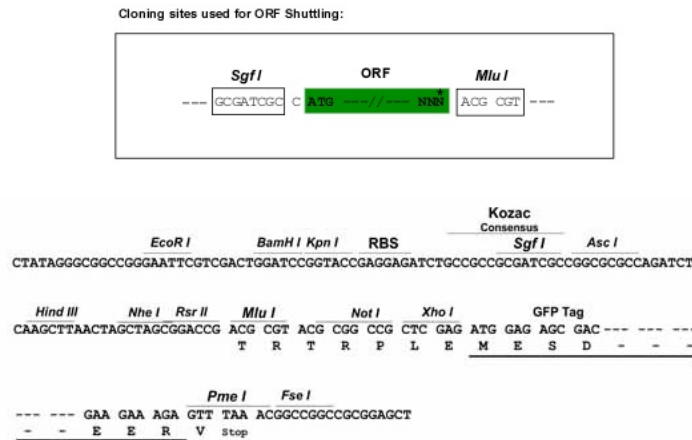
MGSSRCGPGAHPVHLWPPHFAFSGHHPDLGPHSGPALLVSLASEVQDLHLAQRKEMASGFSKGPTLGLL  
 PDVPSLMETLSYSYCYVGIMTGPFPRYRTYLDWLEQPPGAVPSLRPLLRRWPAPLFGLLFLLSSHLFP  
 LEAVREDAFYARPLPARLFYMIPVFFAFRMRFYVAWIAAECGIAAGFGAYPVAAKARAGGGPTLQCPPP  
 SSPEKAASLEYDYETIRNIDCYSTDFCVRVRDGMRYWNMTVQWLAQYIYKSAPARSYVLRSAWTMLLSA  
 YWHGLHPGYLSFLTIPCLAAEGRLESALRGRLSPGGQKAWDWWHFLKMRAYDYMCMGFVLLSLADTL  
 RYWASIYFCIHFLAALGLGLALGGGSPSRKAASQPTSLAPEKLREE

TRTRPLE - GFP Tag - V

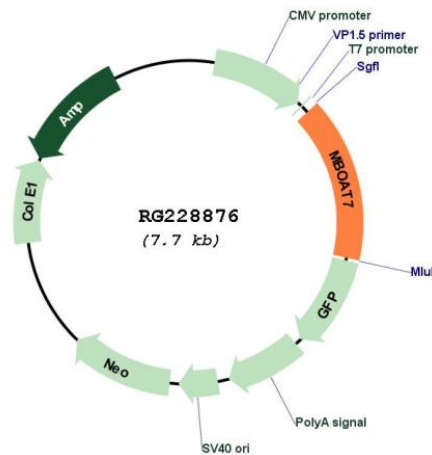
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001146056

<b>ORF Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001146056.3</a>
<b>RefSeq Size:</b>	2409 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	79143
<b>UniProt ID:</b>	<a href="#">Q96N66</a>
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]