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Product datasheet for RC231195

LIPF (NM_001198830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIPF (NM_001198830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LIPF
Synonyms:	GL; HGL; HLAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC231195 representing NM_001198830
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCTCCAACGCAAACAGCAGGTCCAAAATGTGGCTGCTTTTAACAATGGCAAGTTTGATATCTGTAC
TGGGGACTACACATGGTTTGTTTGGAAAATTACATCCTGGAAGCCCTGAAGTGACTATGAACATTAGTCA
GATGATTACTTATTGGGGATACCCAAATGAAGAATATGAAGTTGTGACTGAAGATGGTTATATTCTTGAA
GTCAATAGAATTCCTTATGGGAAGAAAAATTCAGGGAATACAGATGCTGGTTATGATGTGTGGCTGGGCA
ACAGCAGAGGAAACACCTGGGCCAGAAGAAACTTGTACTATTCACCAGATTCAGTTGAATTCTGGGCTTT
CAGCTTTGATGAAATGGCTAAATATGACCTTCCAGCCACAATCGACTTCATTGTAAAGAAAACTGGACAG
AAGCAGCTACACTATGTTGGCCATTCCCAGGGCACCACCATTGGTTTTATTGCCTTTTCCACCAATCCCA
GCCTGGCTAAAAGAATCAAAACCTTCTATGCTCTAGCTCCTGTTGCCACTGTGAAGTATACAAAAAGCCT
TATAAACAAACTTAGATTTGTTCCTCAATCCCTCTTCAAGTTTATATTTGGTGACAAAATATTCTACCCA
CACAACTTCTTTGATCAATTTCTTGCTACTGAAGTGTGCTCCCGTGAGATGCTGAATCTCCTTTGCAGCA
ATGCCTTATTTATAATTTGTGGATTTGACAGTAAGAACTTTAACACGAGTCGCTTGGATGTGTATCTATC
ACATAATCCAGCAGGAACTTCTGTTCAAAACATGTTCCATTGGACCCAGGCTGTTAAGTCTGGGAAATTC
CAAGCTTATGACTGGGGAAGCCCAGTTCAGAATAGGATGCACTATGATCAGTCCCAACCTCCCTACTACA
ATGTGACAGCCATGAATGTACCAATTGCAGTGTGGAACGGTGGCAAGGACCTGTTGGCTGACCCCCAAGA
TGTTGGCCTTTTGCTTCCAAAACTCCCCAATCTTATTTACCACAAGGAGATTCCTTTTTACAATCACTTG
GACTTTATCTGGGCAATGGATGCCCCTCAAGAAGTTTACAATGACATTGTTTCTATGATATCAGAAGATA
AAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC231195 representing NM_001198830
Red=Cloning site Green=Tags(s)

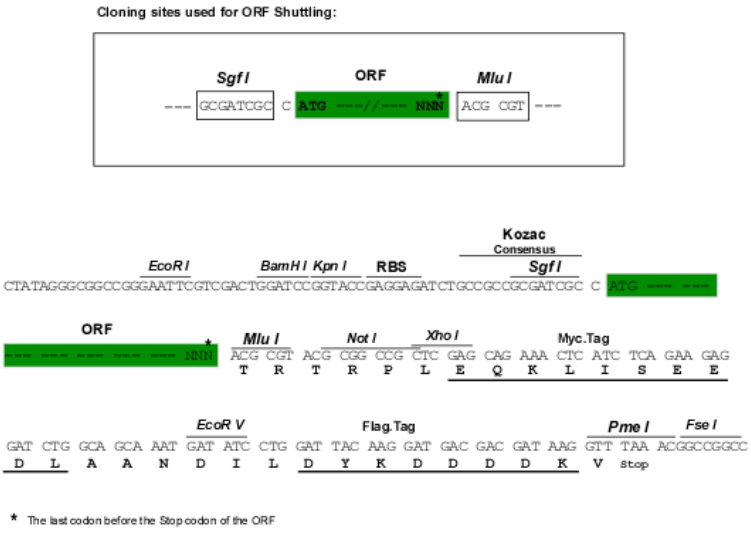
MFSNANSRSKMWLLLTMASLISVLGTTHGLFGKLHPGSPEVTMNISQMITYWGYPNEEYEVVTEDGYILE
VNRIPYGKKNSGNTDAGYDVWLGNSRGNTWARRNLYYSPDSVEFWAFSFDEMAKYDLPATIDFIVKKTGQ
KQLHYVGHSQGTTIGFIAFSTNPSLAKRIKTFYALAPVATVKYTKSLINKLRFVPQSLFKFIFGDKIFYP
HNFFDQFLATEVCSREMLNLLCSNALFIICGFDSKNFNTSRLDVYLSHNPAGTSVQNMFHWTQAVKSGKF
QAYDWGSPVQNRMHYDQSQPPYYNVTAMNVPIAVWNGGKDLLADPQDVGLLLPKLPNLIYHKEIPFYNHL
DFIWAMDAPQEVYNDIVSMISEDKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8055_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001198830

ORF Size: 1125 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_001198830.2

RefSeq ORF: 1128 bp

Locus ID: 8513

UniProt ID: P07098

Cytogenetics: 10q23.31

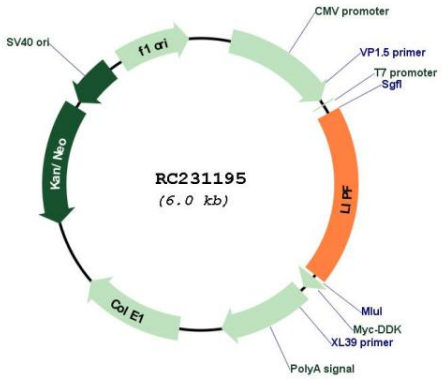
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Glycerolipid metabolism, Metabolic pathways

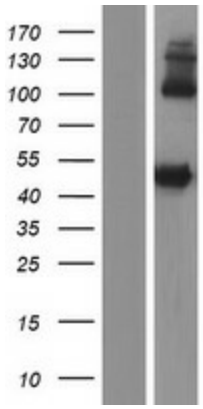
MW: 43.3 kDa

Gene Summary: This gene encodes gastric lipase, an enzyme involved in the digestion of dietary triglycerides in the gastrointestinal tract, and responsible for 30% of fat digestion processes occurring in human. It is secreted by gastric chief cells in the fundic mucosa of the stomach, and it hydrolyzes the ester bonds of triglycerides under acidic pH conditions. The gene is a member of a conserved gene family of lipases that play distinct roles in neutral lipid metabolism. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RC231195



Western blot validation of overexpression lysate (Cat# [LY434194]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231195 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).