

## Product datasheet for **RG221225**

### LIPF (NM\_004190) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LIPF (NM_004190) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LIPF
Synonyms:	GL; HGL; HLAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221225 representing NM_004190 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGCTGCTTTAACAATGGCAAGTTTGATATCTGTACTGGGGACTACACATGGTTTGTGGAAAAT  
TACATCCTGGAAGCCCTGAAGTGACTATGAACATTAGTCAGATGATTACTATTGGGGATACCCAAATGA  
AGAATATGAAGTTGTGACTGAAGATGGTTATATCTTGAAGTCAATAGAATTCCTATGGGAAGAAAAAT  
TCAGGGAATACAGGCCAGAGACCTGTTGTGTTTTGCAGCATGGTTTGCCTGCATCAGCCACAACTGGA  
TTTCCAACCTGCCGAACAACAGCCTTGCCTTCATTCTGGCAGATGCTGGTTATGATGTGTGGCTGGGCAA  
CAGCAGAGGAAACACCTGGGCCAGAAGAACTGTACTATTCACCAGATTCAGTTGAATTCGGGCTTTC  
AGCTTTGATGAAATGGCTAAATATGACCTTCCAGCCACAATCGACTTCATTGTAAGAAAACCTGGACAGA  
AGCAGCTACACTATGTTGGCCATCCCAGGGCACCACCATTGGTTTTATTGCCTTTCCACCAATCCCAG  
CCTGGCTAAAAGAATCAAACCTTCTATGCTCTAGCTCCTGTTGCCACTGTGAAGTATACAAAAGCCTT  
ATAAACAACTTAGATTTGTTCCCTCAATCCCTCTCAAGTTTATATTTGGTGACAAAATATTCTACCCAC  
ACAACCTCTTTGATCAATTTCTTGCTACTGAAGTGTGCTCCCGTGAGATGCTGAATCTCCTTTCAGCAA  
TGCCTTATTTATAATTTGTGGATTTGACAGTAAGAAGTTAAACACGAGTCGCTTGGATGTGTATCTATCA  
CATAATCCAGCAGGAACCTTCTGTTCAAACATGTTCCATTGGACCCAGGCTGTTAAGTCTGGGAAATCC  
AAGCTTATGACTGGGGAAGCCAGTTCCAGAAATAGGATGCACTATGATCAGTCCCAACCTCCCTACTACAA  
TGTGACAGCCATGAATGTACCAATTGCAGTGTGGAACGGTGGCAAGGACCTGTTGGCTGACCCCCAAGAT  
GTTGGCCTTTGCTTCCAAAACCTCCCAATCTTATTTACCACAAGGAGATTCTTTTTACAACACTTGG  
ACTTTATCTGGCAATGGATGCCCTCAAGAAGTTTACAATGACATTGTTTCTATGATATCAGAAGATAA  
AAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221225 representing NM\_004190  
 Red=Cloning site Green=Tags(s)

MWLLLTMASLISVLGTTHTGLFGKLHPGSPEVTMNISQMITYWGYPNEEYEVVTEDEGYILEVNRIPYGKKN  
 SGNTGQRPVVFLQHGLLASATNWI SNLPNNSLAFILADAGYDVLGNSRGNTWARRNLYSPDSVEFWAF  
 SFDEMAKYDLPATIDFIVKKTGQKQLHYVGHSSQGTITIGFIAFSTNPSLAKRIKTFYALAPVATVKYTKSL  
 INKLRFPQSLFKFIFGDKIFYPHNFFDQFLATEVCSREMLNLLCSNALFICGFDSKNFNTSRLDVYLS  
 HNPAGTSVQNMFWHTQAVKSGKFQAYDWGSPVQNRMHYDQSQPPYYNVTAMNVPIAVWNGGKDLLADPQD  
 VGLLLPKLPNLIYHKEIPFYHNLDFIWAMDAPQEYVNDIVSMISEDKK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004190

**ORF Size:** 1194 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\\_004190.4](#)

**RefSeq Size:** 1365 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 8513

**UniProt ID:** [P07098](#)

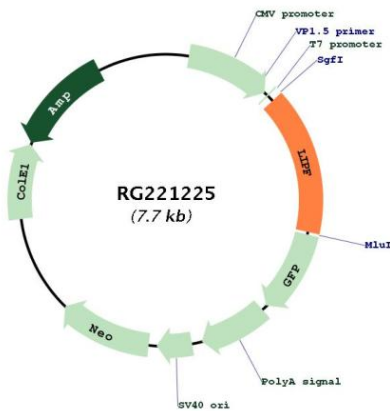
**Cytogenetics:** 10q23.31

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Glycerolipid metabolism, Metabolic pathways

**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 RG221225