

Product datasheet for **RG231214**

LIPF (NM_001198829) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIPF (NM_001198829) 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:	>RG231214 representing NM_001198829 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCCAACGCAAACAGCAGGTCCAAAATGTGGCTGCTTTTAACAATGGCAAGTTTGATATCTGTAC
TGGGGACTACACATGGTTTGGTGGAAAATTACATCCTGGAAGCCCTGAAGTGACTATGAACATTAGTCA
GATGATTACTTATTGGGGATACCCAAATGAAGAATATGAAGTTGTGACTGAAGATGGTTATATTCTTGAA
GTCAATAGAATTCCTTATGGGAAGAAAAATTCAGGGAATACAGGCCAGAGACCTGTTGTGTTTTGCAGC
ATGTTTTGCTTGATCAGCCACAACCTGGATTTCCAACCTGCCGAACAACAGCCTTGCCCTCATTCTGGC
AGATGCTGGTTATGATGTGTGGCTGGGCAACAGCAGAGGAAACACCTGGGCCAGAAGAACTTGTACTAT
TCACCAGATTCAGTTGAATCTGGGCTTTGAGCTTTGATGAAATGGCTAAATATGACCTCCAGCCACAA
TCGACTTCATTGTAAGAAAACTGGACAGAAGCAGCTACACTATGTTGGCCATCCAGGGCACCACCAT
TGGTTTTATTGCCTTTCCACCAATCCAGCCTGGCTAAAAGAATCAAAACCTTCTATGCTCTAGCTCCT
GTTGCCACTGTGAAGTATACAAAAGCCTTATAAAACAACTTAGATTTGTTCTCAATCCCTCTTCAAGT
TTATATTTGGTGACAAAATTTCTACCCACACAACCTTCTTTGATCAATTTCTGCTACTGAAGTGTGCTC
CCGTGAGATGCTGAATCTCCTTTGCAGCAATGCCTTATTTATAATTTGTGGATTTGACAGTAAGAATTT
AACACGAGTCGCTTGGATGTGTATCTATCACATAATCCAGCAGGAACCTTCTGTTCAAACATGTTCCATT
GGACCCAGGCTGTTAAGTCTGGGAAATCCAAGCTTATGACTGGGGAAGCCAGTTCAGAATAGGATGCA
CTATGATCAGTCCCAACCTCCCTACTACAAATGTGACAGCCATGAATGTACCAATTGCAGTGTGGAACGGT
GGCAAGGACCTGTTGGCTGACCCCAAGATGTTGGCCTTTGCTTCCAAAACCTCCCAATCTTATTTACC
ACAAGGAGATTCCTTTTACAATCACTTGGACTTTATCTGGGCAATGGATGCCCTCAAGAAGTTTACAA
TGACATTGTTTCTATGATATCAGAAGATAAAAAG

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231214 representing NM_001198829
 Red=Cloning site Green=Tags(s)

MFSNANSRSKMWLLLTMASLISVLGTTHTGLFGKLPSPVEVTMNISQMITYWGYPNEEYEVVTEDEGYILE
 VNRIPYGGKNSGNTGQRPVVFLQHGLLASATNWI SNLPNNSLAF ILADAGYDVWLGNSRGNTWARRNLYY
 SPDSVEFWAFSFDDEMAKYDLPATIDFIVKKTGQKQLHYVGHSSQGTITIGF IAFSTNPSLAKRIKTFYALAP
 VATVKYTKSLINKLRFVPSQLFKFIFGDKIFYPHNFFDQFLATEVCSREMLNLLCSNALFICGFDSKNF
 NTSRLDVYLSHNPAGTSVQNMFWHTQAVKSGKFQAYDWGSPVQNRMHYDQSQPPYYNVTAMNVPIAVWNG
 GKDLLADPQDVGLLLPKLPNLIYHKEIPFYNHLDFIWAMDAPQEVYNDIVSMISEDKK

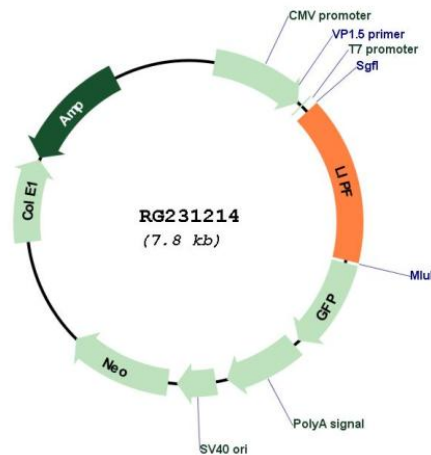
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001198829

ORF Size:	1224 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_001198829.2
RefSeq Size:	1537 bp
RefSeq ORF:	1227 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]