

Product datasheet for **SC303449**

LIPF (NM_004190) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: LIPF (NM_004190) Human Untagged Clone
Tag: Tag Free
Symbol: LIPF
Synonyms: GL; HGL; HLAL
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004190, RT-PCR generated
 AAATGTGGCTGCTTTTAAACAATGGCAAGTTTGATATCTGTACTGGGGACTACACATGGTT
 TGTTTGGAAAATTACATCCTGGAAGCCCTGAAGTGACTATGAACATTAGTCAGATGATTA
 CTATTGGGGATACCCAATGAAGAATATGAAGTTGTGACTGAAGATGGTTATATTCTTG
 AAGTCAATAGAATTCCTTATGGGAAGAAAAATTGAGGAATACAGGCCAGAGACCTGTTG
 TGTTTTGCGCATGGTTTGCTGCATCAGCCACAACTGGATTTCCAACCTGCCGAACA
 ACAGCCTTGCCTTATTCTGGCAGATGCTGGTTATGATGTGTGGCTGGGCAACAGCAGAG
 GAAACACCTGGGCCAGAAGAACTTGTACTATTCACCAGATTCAGTTGAATTCTGGGCTT
 TCAGCTTTGATGAAATGGCTAAATATGACCTTCCAGCCACAATCGACTTCATTGTAAGA
 AAAGTGGACAGAAGCAGCTACACTATGTTGGCCATCCCAGGGCACCACCATTGGTTTTA
 TTGCCTTTTCCACCAATCCCAGCCTGGCTAAAAGAATCAAACCTTCTATGCTCTAGCTC
 CTGTTGCCACTGTGAAGTATACAAAAAGCCTTATAAACAACTTAGATTTGTTCCCAAT
 CCCTCTTCAAGTTTATATTTGGTGACAAAATATTCTACCCACACAACCTTCTTTGATCAAT
 TTCTTGCTACTGAAGTGTGCTCCCGTGAGATGCTGAATCTCCTTTCAGCAATGCCTTAT
 TTATAATTTGGGATTTGACAGTAAGAAGTTTAAACACGAGTCGCTGGATGTGTATCTAT
 CACATAATCCAGCAGGAACCTTCTGTTCAAACATGTTCCATTGGACCCAGGCTGTTAAGT
 CTGGGAAATCCAAGCTTATGACTGGGGAAGCCAGTTTGAATAGGATGCACTATGATC
 AGTCCCAACCTCCCTACTACAATGTGACAGCCATGAATGTACCAATTGCAGTGTGGAACG
 GTGGCAAGGACCTGTTGGCTGACCCCAAGATGTTGGCCTTTTGGCTTCCAAAACCTCCCA
 ATCTTATTTACCACAAGGAGATTCTTTTTACAATCACTTGGACTTTATCTGGGCAATGG
 ATGCCCTCAAGAAGTTTACAATGACATTGTTTCTATGATATCAGAAGATAAAAAGTAGT
 TCTGGATTTAAGAATTATCCGTTTGT



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004190 unedited
 NNNNNNAAGTTCCTACTATTGTATACGACTCCTATAGGCGGCCGCGNATTCAGATCTGGTAC
 CAAATGTGGCTGCTTTTAAACAATGGCAAGTTTGATATCTGTAAGGGACTACACATGGT
 TTGTTTGGAAAATTACATCCTGGAAGCCCTGAAGTGACTATGAACATTAGTCAGATGATT
 ACTTATTGGGGATACCCAAATGAAGAATATGAAGTTGTGACTGAAGATGGTTATATTCTT
 GAAGTCAATAGAATTCTTATGGGAAGAAAAATTCAGGAATACAGGCCAGAGACCTGTT
 GTGTTTTTGCAGCATGGTTTGCCTTGCATCAGCCACAACTGGATTTCCAACCTGCCGAAC
 AACAGCCTTGCCTTCACTTCTGGCAGATGCTGGTTATGATGTGGCTGGGCAACAGCAGA
 GGAAACACCTGGGCCAGAAGAACTTGTACTATTCACCAGATTGAGTTGAATTCTGGGCT
 TTCAGCTTTGATGAAATGGCTAAATATGACCTTCCAGCCACAATCGACTTCATTGTAAG
 AAAACTGGACAGAAGCAGCTACACTATGTTGGCCATTCCAGGGCACCACCATTGGGTTT
 TATTGCCTTTTCCACCAATCCCAGCCTGGCTAAAAGAATCAAACCTTCTATGCTCTAGC
 TCCTGTTGCCACTGTGAAGTATACAAAAAGCCTTATAAACAACCTAGNATTTGTTCCCTC
 AATCCCTCTTCAAGTTTATTATTTGGTGACAAAATATTCTACCCACACAACCTCTTTGAT
 CAATTTCTTGCTACTGGAAGTGCTCCCGTGAGATGCTGAATCTCTTTGCAGCAATGC
 CTATTTATAATTTGGTGGATTTGACAGTAAGAACCTTAAACAGAGTCGTTTGGGGATGT
 GTAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004190 unedited
 NNCCATTGGNGAATGGCACTTCCAGGNCCAGNANAGCACTGGGGNAGGGTCACAGGNAT
 GCCACCCGGGATCTGTTCCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTT
 GNGAAAAACAAACGGATAATTCTTTAAATCCAGAATACTTTTTATCTTCTGATATCATA
 GAAACAATGTCTTGTAACTTCTTGAGGGGCATCCATTGCCAGATAAAGTCCAAGTGA
 TTGTA AAAAGGAATCTCCTTGTGGTAAATAAGATTGGGGAGTTTTGGAAGCAAAAGGCCA
 ACATCTTGGGGTGCAGCAACAGGTCCTTGCCACCGTTCCACACTGCAATTGGTACATTC
 ATGGCTGTACATTGTAGTAGGGAGGTTGGGACTGATCATAGTGCATCCTATTCTGAACT
 GGGCTTCCCCAGTCATAAGCTTGGAAATTTCCAGACTTAACAGCCTGNGTCCAATGGAAC
 ATGTTTTGAACAGAAGTCTCTGCTGGATTATGTGATAGATACACATCCAAGCGACTCGTG
 TAAAGTCTTACTGTCAAATCCACAAATTATAAATAAGGCATTGCTGCANAGGAGATTC
 AGCATCTACGGGAGCACACTTCAGTAGCAAGAAATTGATCAAAGAAAAGTTGTGTGGGT
 AGAAATATTTTGTACCAAAATATAAACTTGAAGAGGGGATTGAGGAACANATCAAAGGT
 TTGTTAATAAGGCTTTTTGTATACTTCCAGTGCGCAACAGGAGCTAGACCTAANAAGGT
 TTTGATCTTTTTACCAGGCTGGGATTGGGGGAAAAGGCAATAAACCAATGGTTGGTGC
 CCTGGGAATGGNCCACATAGTGTAACTGGCTCTGTCCCGTTTTCTACAATGAAATCGAT
 GTGGCTGGGG

Restriction Sites:

Please inquire

ACCN:

NM_004190

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This construct is a cloned PCR fragment that was fully sequenced. There are no nucleotide differences between the OriGene clone and the NCBI reference ORF.

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_004190.1 , NP_004181.1
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:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.</p>