

Product datasheet for **SC331247**

Lactoferrin (LTF) (NM_001199149) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lactoferrin (LTF) (NM_001199149) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lactoferrin
Synonyms:	GIG12; HEL110; HLF2; LF
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC331247 representing NM_001199149.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAGAAAAGTGCCTGGCCCTCCTGTCAGCTGCATAAAGAGAGACTCCCCATCCAGTGTATCCAGGCC
ATTGCGGAAAACAGGGCCGATGCTGTGACCCCTTGATGGTGGTTTCATATACGAGGCAGGCCTGGCCCCC
TACAAACTGCGACCTGTAGCGCGGAAGTCTACGGGACCGAAAGACAGCCACGAACCTCACTATTATGCC
GTGGCTGTGGTGAAGAAGGGCGGCAGCTTTCAGCTGAACGAAGTCAAGGTCTGAAGTCCAGCACACA
GGCCTTCGCAGGACCGCTGGATGGAATGTCCCTATAGGGACACTTCGTCCATTCTTGAATTGGACGGGT
CCACCTGAGCCCATTGAGGCAGCTGTGGCCAGGTTCTTCTCAGCCAGCTGTGTTCCCGGTGCAGATAAA
GGACAGTTCACCAACCTGTGTGCGCTGTGTGCGGGACAGGGGAAAAACAATGTGCCCTTCTCCTCCAG
GAACCGTACTTCACTACTCTGGTGCCTTCAAGTGTCTGAGAGACGGGGCTGGAGACGTGGCTTTTATC
AGAGAGAGCACAGTGTGGAGGACCTGTGAGACAGGCTGAAAGGGACGAGTATGAGTACTCTGCCCA
GACAACACTCGGAAGCCAGTGGACAAGTCAAAGACTGCCATCTGGCCCGGTCCCTTCTCATGCCGTT
GTGGCACGAAGTGTGAATGGCAAGGAGGATGCCATCTGGAATCTTCTCCGCCAGGCACAGAAAAGTTT
GGAAAGGACAAGTCAACGAAATCCAGCTCTTTGGCTCCCTAGTGGGCAGAAAGATCTGCTGTTCAAG
GACTCTGCCATTGGGTTTTCGAGGGTGCSCCCGAGGATAGATTCTGGGCTGTACCTTGGCTCCGGCTAC
TCACTGCCATCCAGAATTGAGGAAAAGTGAAGGAAAGTGGCTGCCCGCGCTGCGCGGTCTGTGTGG
TGTGCGGTGGGCGAGCAGGAGCTGCGCAAGTGAACAGTGGAGTGGCTTGAAGGAGAAGCTGATGCCATGAGT
TTGGATGGAGGATATGTGTACACTGCAGGCAAAATGTGGTTGGTGCCTGTCTGGCAGAGAACTACAAA
TCCCAACAAGCAGTGAACCTGATCCTAACTGTGTGGATAGACCTGTGGAAGGATATCTTGTGTGGCG
GTGGTTAGGAGATCAGACACTAGCCTTACCTGGAACCTGTGAAAGGCAAGAAGTCTGCCACACCGCC
GTGGACAGGACTGCAGGCTGGAATATCCCATGGGCTGCTCTTCAACCAGACGGGCTCCTGCAAAATTT
GATGAATATTTCAAGTCAAAGCTGTGCCCTGGGTCTGACCCGAGATCTAACTCTGTGTCTGTGTATT
GGCGACGAGCAGGGTGAAGAATAAGTGCCTGCCAACAGCAACGAGAGATACTACGGCTACTGCGGCT
TCCGGTGCCTGGCTGAGAATGCTGGAGACGTTGCATTTGTGAAAGATGTCAGTGTCTTGCAGAACACT
GATGGAATAACAATGAGGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCCTCGAT
GGCAAACGGAAGCCTGTGACTGAGGCTAGAAGCTGCCATCTTGCATGGCCCCGAATCATGCCGTGGTG
TCTCGGATGGATAAGGTGGAACGCCTGAAACAGGTGTTGCTCCACCAACAGGCTAAATTTGGGAGAAAT
GGATCTGACTGCCCGACAAGTTTTGCTTATTCCAGTCTGAAACCAAAAACCTTCTGTTCAATGACAAC
ACTGAGTGTCTGGCCAGACTCCATGGCAAAACAACATATGAAAAATATTTGGGACCACAGTATGTGCA
GGCATTACTAATCTGAAAAGTGTCAACCTCCCCCTCCTGGAAGCCTGTGAATTCCTCAGGAAGTAA
  
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001199149
Insert Size: 2001 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001199149.1](#)

RefSeq Size: 2537 bp

RefSeq ORF: 2001 bp

Locus ID: 4057

UniProt ID: [P02788](#)

Cytogenetics: 3p21.31

Protein Families: Druggable Genome, Protease, Secreted Protein

MW: 73.2 kDa

Gene Summary:

This gene is a member of the transferrin family of genes and its protein product is found in the secondary granules of neutrophils. The protein is a major iron-binding protein in milk and body secretions with an antimicrobial activity, making it an important component of the non-specific immune system. The protein demonstrates a broad spectrum of properties, including regulation of iron homeostasis, host defense against a broad range of microbial infections, anti-inflammatory activity, regulation of cellular growth and differentiation and protection against cancer development and metastasis. Antimicrobial, antiviral, antifungal and antiparasitic activity has been found for this protein and its peptides. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]

Transcript Variant: This variant (2, also known as delta LF) represents use of an alternate promoter and initiates translation at a downstream start codon compared to variant 1. The resulting isoform (2) has a shorter N-terminus than isoform 1.