

Product datasheet for PH303140

OriGene Technologies, Inc.

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Lactoferrin (LTF) (NM 002343) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

LTF MS Standard C13 and N15-labeled recombinant protein (NP_002334) **Description:**

Species: Human **HEK293 Expression Host: Expression cDNA Clone**

or AA Sequence:

RC203140

Protein Sequence:

78.37 kDa

Predicted MW:

>RC203140 representing NM_002343 Red=Cloning site Green=Tags(s)

MKLVFLVLLFLGALGLCLAGRRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPIQCIQAIA ENRADAVTLDGGFIYEAGLAPYKLRPVAAEVYGTERQPRTHYYAVAVVKKGGSFQLNELQGLKSCHTGLR RTAGWNVPIGTLRPFLNWTGPPEPIEAAVARFFSASCVPGADKGQFPNLCRLCAGTGENKCAFSSQEPYF SYSGAFKCLRDGAGDVAFIRESTVFEDLSDEAERDEYELLCPDNTRKPVDKFKDCHLARVPSHAVVARSV NGKEDAIWNLLRQAQEKFGKDKSPKFQLFGSPSGQKDLLFKDSAIGFSRVPPRIDSGLYLGSGYFTAIQN LRKSEEEVAARRARVVWCAVGEQELRKCNQWSGLSEGSVTCSSASTTEDCIALVLKGEADAMSLDGGYVY TAGKCGLVPVLAENYKSQQSSDPDPNCVDRPVEGYLAVAVVRRSDTSLTWNSVKGKKSCHTAVDRTAGWN IPMGLLFNQTGSCKFDEYFSQSCAPGSDPRSNLCALCIGDEQGENKCEPNSNERYYGYTGAFRCLAENAG DVAFVKDVTVLQNTDGNNNEAWAKDLKLADFALLCLDGKRKPVTEARSCHLAMAPNHAVVSRMDKVERLK QVLLHQQAKFGRNGSDCPDKFCLFQSETKNLLFNDNTECLARLHGKTTYEKYLGPQYVAGITNLKKCSTS

PLLEACEFLRK

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

C-Myc/DDK Tag:

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stable for 3 months from receipt of products under proper storage and handling conditions. Stability:

RefSeq: NP 002334



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RefSeq Size: 2390 RefSeq ORF: 2133

Synonyms: GIG12; HEL110; HLF2; LF

Locus ID: 4057

UniProt ID: <u>P02788</u>, <u>V9HWI4</u>

Cytogenetics: 3p21.31

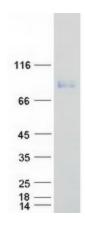
Summary: This gene is a member of the transferrin family of genes and its protein product is found in

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]

Protein Families: Druggable Genome, Protease, Secreted Protein

Product images:



Coomassie blue staining of purified LTF protein (Cat# [TP303140]). The protein was produced from HEK293T cells transfected with LTF cDNA clone (Cat# [RC203140]) using MegaTran 2.0 (Cat# [TT210002]).