

Product datasheet for **SC120074**

Ferritin Light Chain (FTL) (NM_000146) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ferritin Light Chain (FTL) (NM_000146) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ferritin Light Chain
Synonyms:	LFTD; NBIA3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000146, the custom clone sequence may differ by one or more nucleotides

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GGAATTCGGCACGAGGCTCGGCCATCTCTGCTTCTGGGACCTGCCAGCACCGTTTTTGTGGTTAGCTCC
TTCTTGCCAACCAACCATGAGCTCCCAGATTTCGTGAGAATTATCCACCGACGTGGAGGCAGCCGTC AAC
AGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTCGACCGCGATG
ATGTGGCTCTGGAAGGCGTGAGCCACTTCTCCGCGAACTGGCCGAGGAGAAGCGCGAGGGCTACGAGCG
TCTCCTGAAGATGCAAACCAGCGTGGCGGCCGCTCTCTCCAGGACATCAAGAAGCCAGCTGAAGAT
GAGTGGGGTAAAACCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTT
TGGATCTTCATGCCCTGGGTTCTGCCCGCACGGACCCCATCTCTGTGACTTCCTGGAGACTCACTTCCT
AGATGAGGAAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCG
GAGGCTGGGCTGGGCGAGTATCTCTCGAAAGGCTCACTCTCAAGCACGACTAAGAGCCTTCTGAGCCCA
GCGACTTCTGAAGGGCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCA
GCTTTCTTAACATCCTAACAAGCCTTGACCAAATGAAATAAAGCTTTTTGATGCAAAAAAAAAAAAAA
AAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000146 unedited</p> <pre> CCCCCGTTAGAATTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCTCGG CCATCTCTGTTCTGGGACCTGCCAGCACCGTTTTTGTGGTTAGCTCCTTCTTGCCAAC CAACCATGAGCTCCCAGATTTCGTGAGAATTATCCACCGACGTGGAGGCAGCCGTCACCA GCCTGGTCAATTTGTACCTGCAGGCCTCTACACCTACCTCTCTCTGGGTTCTATTTTCG ACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTCCGCGAACTGGCCGAGGAGA AGCGCGAGGGCTACGAGCGTCTCTGAAGATGCAAAACCAGCGTGGCGGCCGCTCTCT TCCAGGACATCAAGAAGCCAGCTGAAGATGAGTGGGGTAAAACCCAGACGCCATGAAAG CTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGATCTTCATGCCCTGGGTT CTGCCCGCACGGACCCCATCTCTGTGACTTCTGGAGACTCACTTCTAGATGAGGAAG TGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCGG AGGCTGGGCTGGGCGAGTATCTCTCGAAGGCTCACTCTCAAGCAGGACTAAGAGCCTTC TGAGCCCAGCGACTTCTGAAGGGCCCTTGCAAAGTAATAGGGGCTTCTGCCTAAGCCTC TCCCTCCAGCCAATAGGCAGCTTTCTTAGCTAATCCTACAAGCCTTTGGACCAATGGA ATAAAGCTTTTTTGATGTAAAAAAGCTCAACTTTAGATTG CGGCCCGGTCATAGCTGTTCTGAACAGAACCCTGGGCATCCCTGGAACCTTTCC TATT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000146 unedited</p> <pre> GGCCTTAGCTTGACCGCGGCCGCTTTCTANGATNCGGTTTTTTTTTTTTTTTTTTTTTTT TTTTTGCATCAAAAAGCTTTATTTCCATTTTGGTCCAAGGCTTGTAGGATAGTAAAA AAGCTGCCTATTGGCTGGAGGGAGAGGCTTAAGCAGAAGCCCTATTACTTTGCAAGGGC CCTTCAGAAGTCGCTGGGCTCAAAGGCTTTAGTCGGGCTTGAGAGTGAGCCTTTCCAA AAGATACTCGCCAGCCAGCCTCCGGGCCACCCAGCCTGAGGAGTTGGTCAGGGGGTC ACCCATCTTCTTGATAAACTTCACTTCCCTCATCTAGGAAGTGAGTCTCCACGAAGTACA GAGATGGGGTCCGTGCGGCCAAAACCCAGGGCATGAAGATCAAAGGGCCTGGGTGAG CTTTTTCTCAAGGCCATGGCAGCTTTCATGGCGTCTGGGGTTTTACCCCACTCATCTTC AACTGGCTTCTTGATGTCTGGAATAGAGCGCGGCCCGCCACGCTGGTTTTGCATCTTCAG GAGACCCTCGTAGCCCTCGCGTCTCTCGGCCAGTTCGAGGAAGAAGTGGCTCACGCC TTCCATAGCCACATCATCGCGCCGAAATAGAACCCACATAGAGGTAGGTGTAGGAGGC CTGAAGTACAAATTGACCAAGCTTTGACGGCTGCCTCCACGTCGGTGGGATAAATTCTGA CGAATCTGGGAGCTCATGGCTGGTTGGCAAGAAAGAGCTAACCAAAAAACGGTGCCTGC AGGTCCCATAAATCAGGAGATGCCCGAGCCTCTGCCGAATTCGCGGCCGCCCTTATATG AGTCGTATTACAAATTGCTGACGCTTCATAAACGAGCTCTGCGTATATAGACCTCCACC G </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000146
Insert Size:	470 bp
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).
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_000146.3](#), [NP_000137.2](#)

RefSeq Size: 889 bp

RefSeq ORF: 528 bp

Locus ID: 2512

UniProt ID: [P02792](#)

Cytogenetics: 19q13.33

Domains: ferritin

Protein Families: Druggable Genome

Gene Summary: This gene encodes the light subunit of the ferritin protein. Ferritin is the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in this light chain ferritin gene are associated with several neurodegenerative diseases and hyperferritinemia-cataract syndrome. This gene has multiple pseudogenes. [provided by RefSeq, Jul 2008]