

Product datasheet for **RG203296**

Ferritin Light Chain (FTL) (NM_000146) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ferritin Light Chain (FTL) (NM_000146) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Ferritin Light Chain
Synonyms: LFTD; NBIA3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203296 representing NM_000146
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTCCCAGATTTCGTCAGAATTATTCCACCGACGTGGAGGCAGCCGTC AACAGCCTGGTCAATTTGT
 ACCTGCAGGCCTCTACACCTACCTCTCTCTGGGCTTCTATTTTCGACCGGATGATGTGGCTCTGGAAGG
 CGTGAGCCACTTCTTCCGCGAACTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCTGAAGTGCAA
 AACCCAGCGTGGCGCCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTGGGGTAAAACCC
 CAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGGATCTTCATGCCCT
 GGGTTCTGCCCGACGGACCCCATCTCTGTGACTTCTGGAGACTCACTTCTAGATGAGGAAGTGAAG
 CTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGTGGCCCGGAGGCTGGGCTGGCG
 AGTATCTCTTCGAAAGGCTCACTCTCAAGCACGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203296 representing NM_000146
 Red=Cloning site Green=Tags(s)

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEEKREGYERLLKMQ
 NQRGGRALFQDIKKPAEDEVGKTPDAMKAAMALEKLNQALLDLHALGSARTDPHLCDFLETHFLDDEEVK
 LIKKMGDHLTNLHRLGGPEAGLGEYLFERLTLKHD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_000146

ORF Size: 525 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:

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](#)

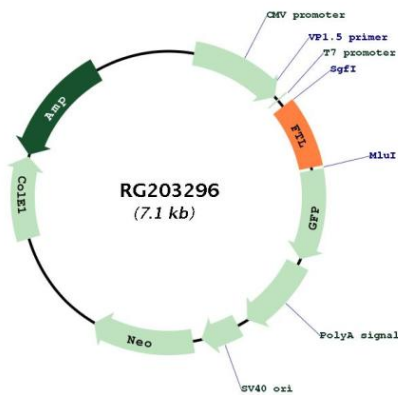
Cytogenetics: 19q13.33

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]

Product images:



Circular map for RG203296