

Product datasheet for **SC110099**

Hephaestin (HEPH) (NM_014799) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hephaestin (HEPH) (NM_014799) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hephaestin
Synonyms:	CPL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014799, the custom clone sequence may differ by one or more nucleotides

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ATGCATGCAATCAATGGCTTTGTTTTGGGAATTTACCTGAGCTGAACATGTGTGCACAGAAACGTGTGG
CCTGGCACTTGTGGCATGGGCAATGAAATTGATGTCCACACAGCATTTCATGGACAGATGCTGAC
TACCCGTGGACACCACACTGATGTGGCTAACATCTTCCAGCCACCTTTGTGACTGCTGAGATGGTGCCC
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ACAAGGTCAAGTCTTGCTCCATGGCCCCCTCTGTGGACCTGCTCACAGGCAAAGTTCGACAGTACTTCAT
TGAGGCCCATGAGATTCAATGGGACTATGGCCCGATGGGGCATGATGGGAGTACTGGGAAGAATTTGAGA
GAGCCAGGCAGTATCTCAGATAAGTTTTCCAGAAGAGCTCCAGCCGAATTGGGGCACTTACTGAAAAG
TGCGATATGAAGCCTTCAAGATGAGACATTCAGAAGAAGATGCATTTGGAGGAAGATAGGCATCTTGG
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CAGCCATTGAGCATGCAGCCCCATGGGGTCTTTATGAGAAAGACTATGAAGGCACTGTGTACAATGATG
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TGCCGGTCCCCTGCTCAGGATCCTGCTGTCTCACTTGGATGTACTTCTGCTGCAGATCCCATAAGA
GACACAAATTCTGGCCTGGTGGGCCCGCTGCTGGTGTGCAGGGCTGGTGCCTGGGTGCAGATGGCAAGC
AGAAAGGGGTGGATAAAGAATCTTTCTTCTTCACTGTGTTGGATGAGAAACAAGAGCTGGTACAGCAA
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TGTGCAGCTTCAAGGCATGAGGAAGGGTGACAGTATGCTCTTCTCATACCTTTGTGATGGCCATCATG
CAGCCTGACAACCTTGGGACATTTGAGATTTATTGCCAGGCAGGCAGCCATCGAGAAGCAGGGATGAGGG
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AACCTGGGACATGGCTGATGCACTGCCATGTGACTGACCATGTCCATGCTGGCATGGAGACCCTTCA
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CCCCAGAGACATTGAAGAAGGCAATGTGAAGATGCTGGGCATGCAGATCCCATAAAGAATGTTGAGATG
CTGGCCTCTGTTTTGGTTGCCATTAGTGTACCCTTCTGCTCGTTGTTCTGGCTCTTGGTGGAGTGGTTT
GGTACCAACATCGACAGAGAAAGCTACGACGCAATAGGAGGTCCATCCTGGATGACAGCTTCAAGCTTCT
GTCTTTCAACAGTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014799 unedited
 GGATTTTGGTATACGACTCACTTATAGGGCGGCCGGAATTCGCACCAGCTGTAACCAAG
 ATACTGACTGAACATGGCTGGCGGACTCAGGCTGGGGTCTGCAGTGCAGCATTAAATGGGC
 CGCTGACATGAATATGGAGTAGTTTTCTCTAGCAAAGAGTAATGTGGCCATGGAGTCAG
 GCCACCTCCTCTGGGCTCTGCTGTTTCATGCAGTCTTGTGGCCTCAACTGACTGATGGAG
 CCACTCGAGTCTACTACCTGGGCATCCGGGATGTGCAGTGAACATGCTCCCAAGGGAA
 GAAATGTCATCATGAACCAGCCTCTGGACAGTGACATAGTGGCTTCCAGCTTCTTAAAGT
 CTGACAAGAACCAGATAGGGGGAACCTACAAGAAGACCATCTATAAAGAATACAAGGATG
 ACTCATACACAGATGAAGTGGCCAGCCTGCTGGTTGGGCTTCTGGGGCCAGTGTTC
 AGGCTGAAGTGGGGATGTCATTCTTATTCACCTGAAGAATTTTGCCTCGTCCCTATA
 CCATCCACCCTCATGGTGTCTTCTACGAGAAGGACTCTGAAGGTTCCCTATACCCAGATG
 GCTCCTCTGGGCCACTGAAAGCTGATGACTCTGTTCCCCCGNGGGCAGCCATATCTACA
 ACTGGACCATTCCAGAAGCCATGCACCCACCGATGCTGACCCAGCGTGCCTCACCTGGA
 TCTACCATTCTCATGTAGATGCTCCACGAGACATTGCAACTGGCCTAATTGGGCCTCTCA
 TCACCTGTAAAAGAGGAGCCCTGGATGGGAACCTCCCTCACGCCAGNATGTAGAACC
 ATGATTCTTCTCTTCCANGTGGGAGATGAGAAGTCAAGTGCATCTCATGAGACATTGC
 ACTACTGCTCAGATCCTGCTCATGGACAAGAGAATANACATTCAGAGAGCATAGGAGCTG
 CATCATGGCTTTGTTTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014799 unedited
 CCCCCCACCATTTTTGCNCCGNGGCCGCATATGAGACCGGCTTTTTTTTTTTTTTTTTT
 CAGGGTTCTAACAGTACTTTCTGGCACAGGGTTTGTGCCTAAAACATGAAGGGTAACT
 CAACATTCCTTTTCAAGTGCACAGGTTAAGACCTTGGCAGACTGGCTTTCCTGAGGAGCTT
 CTAGCTCCAGAGGTTGTACATGCTCATGGCAGCAACAACCCATTGACCACTTCTTCAAAG
 TAGTTCACTGCCAGGAGAATCAAAATCAATTTGGATTCCCAATACTTAGCCTACCTTC
 CATTTCCCATCAAGCCTAATATCTTAGCCTTTAGTTTAAAGTGTGGGTTATTTTAAACCGCT
 CACTTGGCCTCAGGTTACAGTGGAAACATTCCTGGATCCTTGAAGAAGTAGAACCCCCCA
 CCCAGGGGGTTTTTCTCTTGGGCCCTACTTTGTGGAGAAGGGATACCTTTTTTAGAAAA
 TTTTCAAACCTTTCCAGGGTCCCCAAAGAAAAATAAAGGAACCTGTGAAAAATTGCCA
 CGTAGGAAAAAAAAGGGCCTCCCTTAAGGCCACGGGCCCCCTTAGCCACAGAACTCT
 TAGAAAAACGGGCAACCCATATTTTTCCATGTTCAATAAATCGGGAGGGACAATTCACCCAC
 AACCCGGGATGGGCCCTTTGGGTATCCACCCCCCGGCCCTTTTTGGGGGGGGTAA
 GGACAAAACCAAGGCCTCTCTGGGAGGGCCACCCACAGGGGCTTCTTGGGGAAACTCC
 CGGCTCCCAAGATTATTTTTTTTAAAAACACAAACATTTAGACCTTCCCCCCACAGGG
 GGCCCTCATTGGGGGCGCAAAATATTATTTGGGAGGTGGGGGCCCCACACCCCTCCCA
 CAAGCCCCACAACCAAGTGGCAAGGGGGCCCTTAGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_014799

Insert Size:

4730 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_014799.2](#), [NP_055614.1](#)

RefSeq Size: 4231 bp

RefSeq ORF: 2676 bp

Locus ID: 9843

UniProt ID: [Q9BQS7](#)

Cytogenetics: Xq12

Domains: Cu-oxidase

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the multicopper oxidase protein family. The encoded protein is involved in the transport of dietary iron from epithelial cells of the intestinal lumen into the circulatory system, and may be involved in copper transport and homeostasis. In mouse, defects in this gene can lead to severe microcytic anemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
Transcript Variant: This variant (2) differs in its 5' UTR, and initiates translation at a downstream start codon, compared to variant 1. The resulting isoform (b) has a shorter N-terminus, compared to isoform a. Variants 2 and 13 both encode the same isoform (b).