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Product datasheet for SC128100

Hephaestin (HEPH) (NM_138737) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hephaestin (HEPH) (NM_138737) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hephaestin
Synonyms:	CPL
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138737, the custom clone sequence may differ by one or more nucleotides

ATGACCCAGACTTTGCCCTACCACCTCAGTCTTCTGAATGTTCTCTTCCCTGGACCCTGCTCCAGACACT
TTAAATTCAGAAGAGGAAAATGTGCCCAGCCTGCCTGGAGAAAAGTGTCTGCTCCTAGCCAAGATCTCCT
CATCACAAAAGTAATGTGGGCCATGGAGTCAGGCCACCTCCTCTGGGCTCTGCTGTTCATGCAGTCCTTG
TGGCCTCAACTGACTGATGGAGCCACTCGAGTCTACTACCTGGGCATCCGGGATGTGCAGTGGAACTATG
CTCCCAAGGGAAGAAATGTCATCACGAACCAGCCTCTGGACAGTGACATAGTGGCTTCCAGCTTCTTAAA
GTCTGACAAGAACCGGATAGGGGGAACCTACAAGAAGACCATCTATAAAGAATACAAGGATGACTCATAC
ACAGATGAAGTGGCCCAGCCTGCCTGGTTGGGCTTCCTGGGGCCAGTGTTGCAGGCTGAAGTGGGGGATG
TCATTCTTATTCACCTGAAGAATTTTGCCACTCGTCCCTATACCATCCACCCTCATGGTGTCTTCTACGA
GAAGGACTCTGAAGGTTCCCTATACCCAGATGGCTCCTCTGGGCCACTGAAAGCTGATGACTCTGTTCCC
CCGGGGGGCAGCCATATCTACAACTGGACCATTCCAGAAGGCCATGCACCCACCGATGCTGACCCAGCGT
GCCTCACCTGGATCTACCATTCTCATGTAGATGCTCCACGAGACATTGCAACTGGCCTAATTGGGCCTCT
CATCACCTGTAAAAGAGGAGCCCTGGATGGGAACTCCCCTCCTCAACGCCAGGATGTAGACCATGATTTC
TTCCTCCTCTTCAGTGTGGTAGATGAGAACCTCAGCTGGCATCTCAATGAGAACATTGCCACTTACTGCT
CAGATCCTGCTTCAGTGGACAAAGAAGATGAGACATTTCAGGAGAGCAATAGGATGCATGCAATCAATGG
CTTTGTTTTTGGGAATTTACCTGAGCTGAACATGTGTGCACAGAAACGTGTGGCCTGGCACTTGTTTGGC
ATGGGCAATGAAATTGATGTCCACACAGCATTTTTCCATGGACAGATGCTGACTACCCGTGGACACCACA
CTGATGTGGCTAACATCTTTCCAGCCACCTTTGTGACTGCTGAGATGGTGCCCTGGGAACCTGGTACCTG
GTTAATTAGCTGCCAAGTGAACAGTCACTTTCGAGATGGCATGCAGGCACTCTACAAGGTCAAGTCTTGC
TCCATGGCCCCTCCTGTGGACCTGCTCACAGGCAAAGTTCGACAGTACTTCATTGAGGCCCATGAGATTC
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AGATAAGTTTTTCCAGAAGAGCTCCAGCCGAATTGGGGGCACTTACTGGAAAGTGCGATATGAAGCCTTT
CAAGATGAGACATTCCAAGAGAAGATGCATTTGGAGGAAGATAGGCATCTTGGAATCCTGGGGCCAGTGA
TCCGGGCTGAGGTGGGTGACACCATTCAGGTGGTCTTCTACAACCGTGCCTCCCAGCCATTCAGCATGCA

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GCCCCATGGGGTCTTTTATGAGAAAGACTATGAAGGCACTGTGTACAATGATGGCTCATCTTACCCTGGC
TTGGTTGCCAAGCCCTTTGAGAAAGTAACATACCGCTGGACAGTCCCCCCTCATGCCGGTCCCACTGCTC
AGGATCCTGCTTGTCTCACTTGGATGTACTTCTCTGCTGCAGATCCCATAAGAGACACAAATTCTGGCCT
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GAACACTTAAGCCCTCTCACCGTCATCACCAAAGAGACTGAAAAAGCAGTGCCCCCCAGAGACATTGAAG
AAGGCAATGTGAAGATGCTGGGCATGCAGATCCCCATAAAGAATGTTGAGATGCTGGCCTCTGTTTTGGT
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AGAAAGCTACGACGCAATAGGAGGTCCATCCTGGATGACAGCTTCAAGCTTCTGTCTTTCAAACAGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138737 unedited
GGCACCAGGCGGACTCAGGCTGGGGTCTGCAGTGCAGCATTAATGGGCCGCTGACATGAA
TATGGAGTAGTTTTCTCTAGCAAAGAGTAATGTGGGCCATGGAGTCAGGCCACCTCCTCT
GGGCTCTGCTGTTCATGCAGTCCTTGTGGCCTCAACTGACTGATGGAGCCACTCGAGTCT
ACTACCTGGGCATCCGGGATGTGCAGTGGAACTATGCTCCCAAGGGAAGAAATGTCATCA
TGAACCAGCCTCTGGACAGTGACATAGTGGCTTCCAGCTTCTTAAAGTCTGACAAGAACC
GGATAGGGGGAACCTACAAGAAGACCATCTATAAAGAATACAAGGATGACTCATACACAG
ATGAAGTGGCCCAGCCTGCCTGGTTGGGCTTCCTGGGGCCAGTGTTGCAGGCTGAAGTGG
GGGATGTCATTCTTATTCACCTGAAGAATTTTGCCACTCGTCCCTATACCATCCACCCTC
ATGGTGTCTTCTACGAGAAGGACTCTGAAGGTTCCCTATACCCAGATGGCTCCTCTGGGC
CACTGAAAGCTGATGACTCTGTTCCCCGGNNGGGCAGCCATATCTACAACTGGACCATTC
CAGAAGGCCATGCACCCACCGATGCTGACCCAGCGTGCCTCACCTGNATCTACCATTCTC
ATGTAAATGCTCCACGAGACATTGCAACTGGCCTAATTGGGCCTCTCATCACCTGTAAAA
GAGGAGCCCTGATGGGAACTCCCTCCTCAACGCCAGATGTAGACCATGATTNTTTCCTTT
CTCTTAAGGGTGGAGAA

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_138737 unedited
NACGAGCCTCACACCAGTACTTCTATGGCTAGGGTTTGCTGTCTAAAACAGAACAGTAAC
TCAACATTCCTTTCAGTGCCACAGGTTAAGAACTTGGAGAACTGGCTTTCCTGAGGAGCT
TCTAGCTCCAGAGGTTGTACATGCTCATGGCAGCAACAACCCATTGACCACTTCTTCAAA
GTAGTTCACTGCCAAGGAGAATCAAAATTCAATTTGGATTCCCAATACTCAGCCTACCTT
CAATTTCCCATCAAGCCTATATTCTTAGCCTTTAGTTTAAGTGTGGGTTAGTCTTAACAG
CAGCACTTGGCCTCAGTTCAAAGTGAAATTTCCTGAGTCCTTGAAAGAAGTAGAAACCCA
ATCAATGAGTTTTTCTCTTGGTCTCTACTTTGTGAGAAGGATACATTTCTAGAAATTTCA
ATACCTTCCAAGTGTCAGAAGGAAATATAATGTAGCTGTTGAAATTTGCGATGTACGATA
ATAAGGTACTCCCTTAGTGCCAGGTGCCCACGTAGAGCATAGAAACTAAAGAAAACGTGA
AATCATATTATTTCCATGTAAAATAAATAAAGAAAGAAATATCCTGATAAGCTTGGTTGT
TGCTTCTGGTTTGTCACCAGCCATGCCCCTTTGAGTGTGGGGTAAGAGACAATACCAAGG
CCTGGTGGGTATGCCACTAAGTTGTGCCTCCTGAGCATATCTTCCGGCTCCGACACTTAT
TTCTTGAACGGACAAACCTTTGAAGCCTCCTCCAAGAAGAACCCTCTCGTGACCTCCTAG
CATTGACTAGTACGATATGGGACCCACACCTCCCCGGCCGGTAGCCTTATAACCGAGCGC
AAGGGTGACGCCGCAGAGGGACCAAACTACGTGCCGAGACGTT

Restriction Sites: NotI-NotI

ACCN: NM_138737

Insert Size: 4700 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_138737.1, NP_620074.1

RefSeq Size: 4509 bp

RefSeq ORF: 3477 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 (1) encodes the longest isoform (a).