

## Product datasheet for **SC325398**

### Hephaestin (HEPH) (NM\_001130860) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hephaestin (HEPH) (NM_001130860) Human Untagged Clone
Tag:	Tag Free
Symbol:	HEPH
Synonyms:	CPL
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130860, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGCCATGGAGTCAGGCCACCTCCTCTGGGCTCTGCTGTTTCATGCAGTCCTTGTGG
CCTCAACTGACTGATGGAGCCACTCGAGTCTACTACCTGGGCATCCGGGATGTGCAGTGG
AACTATGCTCCCAAGGGAAGAAATGTCATCACGAACCAGCCTCTGGACAGTGACATAGTG
GCTTCCAGCTTCTTAAAGTCTGACAAGAACCGGATAGGGGGAACCTACAAGAAGACCATC
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CCAGCGTGCCTCACCTGGATCTACCATTCTCATGTAGATGCTCCACGAGACATTGCAACT
GGCCTAATTGGGCTCTCATCACCTGAAAAGAGGAGCCCTGGATGGAACTCCCCTCCT
CAACGCCAGGATGTAGACCATGATTTCTCCTCCTCTTTCAGTGTGGTAGATGAGAACCTC
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CAGGCACTCTACAAGGTCAAGTCTTGCTCCATGGCCCTCCTGTGGACCTGCTCACAGGC
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CAGAAGAGCTCCAGCCGAATTGGGGCACTTACTGGAAAGTGCATATGAAGCCTTTCAA
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CCAGTGATCCGGGCTGAGGTGGGTGACACCATTAGGTGGTCTTCTACAACCGTGCCTCC
CAGCCATTGAGCATGCAGCCCCATGGGGTCTTTATGAGAAAGACTATGAAGGCACTGTG
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CGCTGGACAGTCCCCCTCATGCCGGTCCCCTGCTCAGGATCCTGCTTGTCTCACTTGG
ATGTACTTCTCTGCTGCAGATCCCATAGAGACACAAATCTGGCCTGGTGGGCCCGCTG
CTGGTGTGCAGGGCTGGTGCCTTGGGTGCAGATGGCAAGCAGAAAGGGGTGGATAAAGAA

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TTCTTTCTTCTTCTTCACTGTGTTGGATGAGAACAAGAGCTGGTACAGCAATGCCAATCAA
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AATCGGATGCATGCCATTAATGGGTTTCTGTTCTTAACCTGCCAGGCTGGACATGTGC
AAGGGTGACACAGTGGCCTGGCACCTGCTCGGCCCTGGGCACAGAGACTGATGTGCATGGA
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TTTCTCATACCTTTGTTCATGGCCATCATGCAGCCTGACAACCTTGGGACATTTGAGATT
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TGTCTGGCCACCAAGCCACCCCTCGCCAACGCTACCAAGCTGCAAGAATCTACTATATC
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GCTCATGGAGTGTAGAATCTACTACTGTCTGGCCACTGGCTGCTGAGCCTGGTGGAGTG
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GAAAATGTGGCAACCCATGGGTCCCAGGATCCAGGCAGTATTAACCTACAGGATGAAACT
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CTTACCATGTACCAAGGAGAACGAGTGGCCTGGTACATGCTGGCCATGGGCCAAGATGTG
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CGGGCAGATGTGGTGGATCTGTTCCCAGGGACTTTTGGAGTTGTGGAGATGGTGGCCAGC
AACCCCTGGGACATGGCTGATGCACTGCCATGTGACTGACCATGTCCATGCTGGCATGGAG
ACCCTTCTACTGTTTTTCTCGAACAGAACACTTAAGCCCTCTCACCGTCATACCCAAA
GAGACTGAAAAAGTGCCCCCAGAGACATTGAAGAAGGCAATGTGAAGATGCTGGGCATG
CAGATCCCATAAAGAATGTTGAGATGCTGGCCTCTGTTTTGGTTGCCATTAGTGTACC
CTTCTGCTCGTTGTTCTGGCTCTTGGTGGAGTGGTTTGGTACCAACATCGACAGAGAAAG
CTACGACGCAATAGGAGGTCCATCCTGGATGACAGCTTCAAGCTTCTGTCTTTCAAACAG

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001130860
- Insert Size:** 4461 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001130860.1](#), [NP\\_001124332.1](#)

**RefSeq Size:** 4461 bp

**RefSeq ORF:** 4461 bp

**Locus ID:** 9843

**UniProt ID:** [Q9BQS7](#)

**Cytogenetics:** Xq12

**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 (3) contains an alternate 5'-most exon, uses an alternate splice site in the 3' coding region, and initiates translation at a downstream start codon, compared to variant 1. The resulting isoform (c) is shorter, compared to isoform a.