

Product datasheet for **SC337728**

Hephaestin (HEPH) (NM_001282141) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Hephaestin (HEPH) (NM_001282141) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | HEPH |
| Synonyms: | CPL |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001282141, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGCCATGGAGTCAGGCCACCTCCTCTGGGCTCTGCTGTTTCATGCAGTCCTTGTGGCCTCAACTGA
CTGATGGAGCCACTCGAGTCTACTACCTGGGCATCCGGGATGTGCAGTGGAAGTATGCTCCCAAGGGAAG
AAATGTATCACGAACCGCCTCTGGACAGTGACATAGTGGCTTCCAGCTTCTTAAAGTCTGACAAGAAC
CGGATAGGGGAACTACAAGAAGACCCTATAAAGAATACAAGGATGACTCATACACAGATGAAGTGG
CCCAGCCTGCCTGGTTGGGCTTCTGGGCCAGTGTTCAGGCTGAAGTGGGGATGTCATTCTTATTCA
CCTGAAGAATTTTGCCTCGTCCCTATACCATCCACCCTCATGGTGTCTTCTACGAGAAGGACTCTGAA
GGTTCCCTATACCCAGATGGCTCCTCTGGGCCACTGAAAGCTGATGACTCTGTTCCCGGGGGGACGCC
ATATCTACAACCTGGACATTCCAGAAGGCCATGCACCCACCGATGCTGACCCAGCGTGCCTCACCTGGAT
CTACCATTTCTCATGTAGATGCTCCACGAGACATTGCAACTGGCCTAATTGGGCCTCTCATCACCTGTAA
AGAGGAGCCCTGGATGGGAACCTCCCTCCTCAACGCCAGGATGTAGACCATGATTTCTTCTCCTCTTCA
GTGTGGTATAGTGAACCTCAGTGGCATCTCAATGAGAACATTGCCACTTACTGCTCAGATCCTGCTTC
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TTGATGTCCACACAGCATTTTCCATGGACAGATGCTGACTACCCGTGGACACCACACTGATGTGGCTAA
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CTGTGGACCTGCTCACAGGCAAAGTTCGACAGTACTTCAATGAGGCCATGAGATTCAATGGGACTATGG
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CAGAAGAGCTCCAGCCGAATTTGGGGCACTTACTGGAAAGTGCATATGAAGCCTTCAAGATGAGACAT
TCCAAGAGAAGATGCATTTGGAGGAAGATAGGCATCTTGAATCCTGGGGCCAGTATCCGGGCTGAGGT
GGGTGACACCATTGAGTGGTCTTCTACAACCGTGCCTCCAGCCATTGAGCATGCAGCCCCATGGGGT
TTTTATGAGAAAGACTATGAAGGCACTGTGTACAATGATGGGACATTTGAGATTTATTGCCAGGCAGGCA
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CCAACGCTACCAAGCTGCAAGAATCTACTATATCATGGCAGAAGAAGTAGAGTGGGACTATTGCCCTGAC
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GATATCCTGACTGTGGTATTCAAGAATAATGCCAGCCGCCCTACTCTGTGCATGCTCATGGAGTGTAG
AATCTACTACTGTCTGGCCACTGGCTGTGAGCCTGGTGGTGGTCACTTATCAGTGGAAACATCCAGAG
GAGGTCTGGCCCTGGGCCAATGACTCTGCTTGTGTTTCTGGATCTATTATTCTGCAGTGGATCCCATC
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GACGGAGTGACATGGATCGGGAATTTGCATTGTTGTTCTTGATTTTTGATGAAAATAAGTCTTGGTATT
GGAGGAAAATGTGGCAACCCATGGGTCCAGGATCCAGGCAATTAACCTACAGGATGAAACTTTCTTG
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GAGAACGAGTGGCCTGGTACATGCTGGCCATGGGCCAAGATGTGGATCTACACACCATCCACTTTTCATGC
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GAGGTTGTGGAGATGGTGGCCAGCAACCTGGGACATGGCTGATGCACTGCCATGTGACTGACCATGTCC
ATGCTGGCATGGAGACCCTTTCACTGTTTTTCTCGAACAGAACAATTAAGCCCTCTACCCTCATCAC
CAAAGAGACTGAAAAGCAGTGGCCCCAGAGACATTGAAGAAGGCAATGTGAAGATGCTGGGCATGCAG
ATCCCCATAAAGAATGTTGAGATGCTGGCCTCTGTTTTGGTTGCCATTAGTGTACCCTTCTGCTCGTTG
TTCTGGCTCTTGGTGGAGTGGTTTGGTACCAACATCGACAGAGAAAGCTACGACGCAATAGGAGTCCAT
CCTGGATGACAGCTTCAAGCTTCTGCTTTCAAACAGTAA
    
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Restriction Sites: SgfI-MluI
ACCN: NM_001282141

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| 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: | <ol style="list-style-type: none">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_001282141.1 , NP_001269070.1 |
| RefSeq Size: | 3888 bp |
| RefSeq ORF: | 2910 bp |
| Locus ID: | 9843 |
| UniProt ID: | Q9BQS7 |
| Cytogenetics: | Xq12 |
| Protein Families: | Druggable Genome, Transmembrane |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (4) contains an alternate 5'-most exon, lacks three consecutive exons in the central coding region, and initiates translation at a downstream start codon, compared to variant 1. The resulting isoform (d) is shorter, compared to isoform a.</p> |