

Product datasheet for **RC239834**

Hephaestin (HEPH) (NM_001282141) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC239834 representing NM_001282141
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTGGGCCATGGAGTCAGGCCACCTCCTCTGGGCTCTGCTGTTTCATGCAGTCCTTGTGGCCTCAACTGA
 CTGATGGAGCCACTCGAGTCTACTACCTGGGCATCCGGGATGTGCAGTGGAAGTATGCTCCCAAGGGAAG
 AAATGTCATCACGAACAGCCTCTGGACAGTGACATAGTGGCTTCCAGCTTCTTAAAGTCTGACAAGAAC
 CGGATAGGGGGAACCTACAAGAAGACCCTCTATAAAGAATACAAGGATGACTCATACACAGATGAAGTGG
 CCCAGCCTGCCTGGTGGGCTTCTGGGCGCAGTGTGACAGGCTGAAAGTGGGGGATGTCATTCTTATTCA
 CCTGAAGAATTTTGCCACTCGTCCCTATACCATCCACCCTCATGGTGTCTTCTACGAGAAGGACTCTGAA
 GGTTCCCTATACCCAGATGGCTCCTCTGGGCGCAGTGTGACAGGCTGAAAGTGGGGGATGTCATTCTTATTCA
 CTACCATTTCTCATGTAGATGCTCCACGAGACATTGCAACTGGCCTAATTGGGCCTCTCATCACTGTAAA
 AGAGGAGCCCTGGATGGGAAGTCCCTCCTCAACGCCAGGATGTAGACCATGATTTCTTCTCTCTTCA
 GTGTGGTAGATGAGAACCCTCAGCTGGCATCTCAATGAGAACATTGCCACTTACTGCTCAGATCCTGCTTC
 AGTGGACAAAAGATGAGACATTTTCAGGAGAGCAATAGGATGCATGCAATCAATGGCTTTGTTTTGGG
 AATTTACCTGAGCTGAACATGTGTGCACAGAAACGTGTGGCCTGGCAGTGTGTTGGCATGGGCAATGAAA
 TTGATGTCCACACAGCATTTTCCATGGACAGATGCTGACTACCCGTGGACACCACACTGATGTGGCTAA
 CATCTTTCCAGCCACCTTTGTGACTGCTGAGATGGTGCCTGGGAACCTGGTACCTGGTTAATTAGCTGC
 CAAGTGAACAGTCACTTTTCGAGATGGCATGCAGGCACTCTACAAGGTCAAGTCTTGCTCCATGGCCCTC
 CTGTGGACCTGCTCACAGGCAAAGTTCGACAGTACTTCATTGAGGCCCATGAGATTCAATGGGACTATGG
 CCCGATGGGGCATGATGGGAGTACTGGGAAGAATTTGAGAGAGCCAGGCAGTATCTCAGATAAGTTTTTC
 CAGAAGAGCTCCAGCCGAATTGGGGCACTTACTGGAAAGTGCGATATGAAGCCTTTCAAGATGAGACAT
 TCCAAGAGAAGATGCATTTGGAGGAAGATAGGCATCTTGAATCCTGGGCGCAGTATCCGGGCTGAGGT
 GGGTGACACCATTCAGGTGGTCTTCTACAACCGTGCCTCCAGCCATTACAGATGCAGCCCCATGGGGTC
 TTTTATGAGAAAGACTATGAAGGCACTGTGTACAATGATGGGACATTTGAGATTTATTGCCAGGCAGGCA
 GCCATCGAGAAGCAGGGATGAGGGCAATCTATAATGTCTCCAGTGTCTGGCCACCAAGCCACCCCTCG
 CCAACGCTACCAAGCTGCAAGAATCTACTATATCATGGCAGAAGAAGTAGAGTGGGACTATTGCCCTGAC
 CGGAGCTGGGAACGGGAATGGCACAACCACTCTGAGAAGGACAGTTATGGTTACATTTTCTGAGCAACA
 AGGATGGGCTCCTGGGTTCCAGATACAAGAAAGCTGTATTGAGGGAATACACTGATGGTACATTCAGGAT
 CCCTCGGCCAAGGACTGGACCAGAAGAACAATTGGGAATCTTGGGTCCACTTATCAAAGGTGAAGTTGGT
 GATATCCTGACTGTGGTATTCAAGAATAATGCCAGCCGCCCTACTCTGTGCATGCTCATGGAGTGCTAG
 AATCTACTACTGTCTGGCCACTGGCTGCTGAGCCTGGTGGTGGTCACTTATCAGTGGAACATCCAGAG
 GAGGTCTGGCCCTGGGCCAATGACTCTGCTTGTGTTTCTGGATCTATTATTCTGCAGTGGATCCCATC
 AAGGACATGTATAGTGGCCTGGTGGGGCCTTGGCTATCTGCCAAAAGGGCATCCTGGAGCCCCATGGAG
 GACGGAGTGACATGGATCGGGAATTTGCATTGTTGTTCTTGATTTTTGATGAAAAAAGTCTTGGTATTT
 GGAGGAAAAATGTGGCAACCCATGGGTCCAGGATCCAGGCAGTATTAACCTACAGGATGAACTTTCTTG
 GAGAGCAATAAAATGCATGCAATCAATGGGAACTCTATGCCAACCTTAGGGGTCTTACCATGTACCAAG
 GAGAACGAGTGGCCTGGTACATGCTGGCATGGGCCAAGATGTGGATCTACACACCATCCACTTTTCATGC
 AGAGAGCTTCTCTATCGGAATGGCGAGAACTACCGGGCAGATGTGGTGGATCTGTTCCAGGGACTTTT
 GAGGTTGTGGAGATGGTGGCCAGCAACCTGGGACATGGCTGATGCACTGCCATGTGACTGACCATGTCC
 ATGCTGGCATGGAGACCCTTTCACTGTTTTTCTCGAACAGAACTTAAGCCCTCTACCGTCATCAC
 CAAAGAGACTGAAAAAGCAGTGGCCCCAGAGACATTGAAGAAGGCAATGTGAAGATGCTGGGCATGCAG
 ATCCCCATAAAGAATGTTGAGATGCTGGCCTCTGTTTTGGTTGCCATTAGTGTACCCTTCTGCTCGTTG
 TTCTGGCTCTTGGTGGAGTGGTTTGGTACCAACATCGACAGAGAAAGCTACGACGCAATAGGAGGTCCAT
 CCTGGATGACAGCTTCAAGCTTCTGTCTTTCAAACAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239834 representing NM_001282141
Red=Cloning site Green=Tags(s)

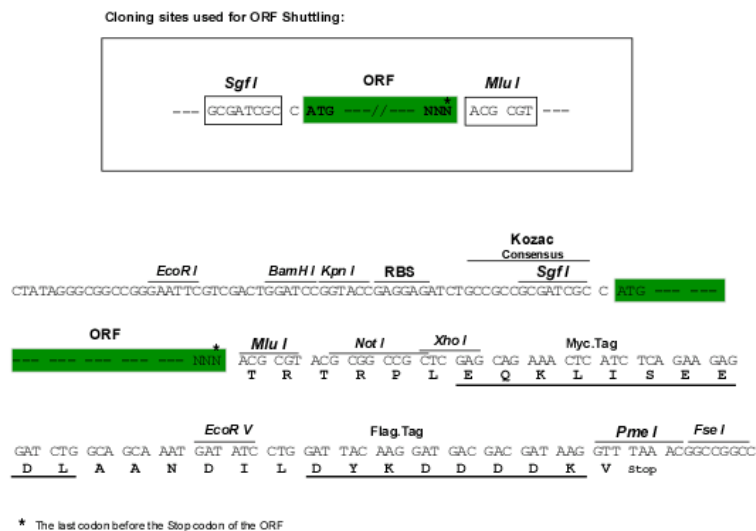
MWAMESGHLWALLFMQSLWPQLTDGATRVYYLGIRDVQWNYAPKGRNVITNQPLDSDIVASSFLKSDKN
RIGGTYKTTIYKEYKDDSYTDEVAQPAWLGLGPVLQAEVGDVILHLKNFATRPYTIHPHGVFYEKDE
GSLYPDGSGLKADDSVPPGGSHIYNWTIPEGHAPTDADPACLTWIYHSHVDAPRDIATGLIGPLITCK
RGALDGNPSPQQRQDVHDFFLLFSVVDENLSWHLNENIATYCSDPASVDKEDETFQESNRMHAINGFVFG
NLPELNMCAQKRVAWHLFGMGNEIDVHTAFFHGQMLTTRGHHTDVANIFPATFVTAEMVPWEPGTWLISC
QVNSHFRDGMQALYKVKSCSMAPPVDLLTGKVRQYFIEAHEIQWDYGPMDHGDSTGKNLREPGSISDKFF
QKSSSRIGGTYWKVRYEAFQDETFQEKMHLEEDRHLGILGPVIRAEVGDITQVVFYNRASQPFMQPHGV
FYEKDYEGTVYNDGTFEIYCAGSHREAGMRAIYNVSQCPGHQATPRQRYQAARIYYIMAEVEWDYCPD
RSWEREWHNQSEKDSYGYIFLSNKDGLLSRYKKAVFREYTDGTFRIPRPTGPEEHLGILGPLIKGEVG
DILTVVFKNNASRPYSVHAHGVLESTTVWPLAAEPGEVVTYQWNIPERSGPGPNDSACVSWIYSAVDPI
KDMYSGLVGLAICQKGIPEHGGSDMDREFALLFLIFDENKSWYLEENVATHGSQDPGSINLQDETF
ESNKMHAINGKLYANLRGLTMYQGERVAWYMLAMGQDVLHTIHFHAESFLYRNGENYRADVVDLFPGT
EYVEMVASNPGTWLMHCHVTDHVGAGMETLFTVFSRTEHLSPLTVITKETEKAVPPRDIEEGNVKMLGMQ
IPIKNVEMLASVLVAISVTLVVVLAALGGVVWYQHRQRKLRRNRRSILDDSFKLLSFKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

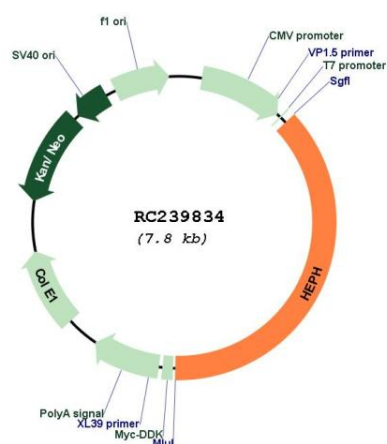


ACCN: NM_001282141

ORF Size: 2907 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001282141.2
RefSeq Size:	3888 bp
RefSeq ORF:	2901 bp
Locus ID:	9843
UniProt ID:	Q9BQS7
Cytogenetics:	Xq12
Protein Families:	Druggable Genome, Transmembrane
MW:	110.2 kDa
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]

Product images:



Circular map for RC239834