

## Product datasheet for MC223056

### Heph (NM\_001159627) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Heph (NM\_001159627) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Heph  
**Synonyms:** C130006F04Rik; Cpl; mKIAA0698; sla  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223056 representing NM\_001159627  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAAGGCAGGCCATCTTCTCTGGGCTTACTGTTGATGCACTCCTTGTGGTCTATACCAACTGATGGGG  
 CCATTCGAAACTACTACTTGGGCATCCAGGATATGCAGTGAAGTATGCTCCCAAAGGAAGAAATGTCAT  
 CACAAATCAGACTCTCAACAATGACACAGTGGCTTCCAGTTTCCGAAGTCTGGCAAAAACAGGATAGGG  
 AGTAGTTACAAGAAGACTGTTTATAAGGAATACAGTGATGGCACATACACTGAAGAAATAGCCAAGCCTG  
 CCTGGTTGGGCTTCTTAGGACCACTGTTACAGGCTGAGGTGGGGGATGTCATCTTGATTCACCTGAAGAA  
 TTTTGGCAGCCGACCTTACACCATTACCCCTCACGGTGTTTTTATGAGAAGGACTCAGAAGGCTCACTA  
 TACCCAGATGGTTCTTCTGGGTATCTGAAAGCGGATGATTCTGTCCCCCTGGGGCAGCCATGTCTACA  
 ACTGGAGTATCCAGAAAGTCAAGGACCTGAGGCAGACCCAGCATGCCTCACCTGGATTTACCACTC  
 GCATGTAGATGCTCCAAGAGACATTGCAACTGGTCTCATTGGACCTTTATCACCTGTAAGAGGGGACC  
 CTGGATGGTAATCCCCACCTCAGAGGAAGGATGTGGACCATAATTTCTCTCTCTTCAGTGTGATAG  
 ATGAGAACCCTTAGCTGGCACCTTGATGACAACATTGCTACTTACTGCTCAGACCCTGCCTCGTGGGACAA  
 AGAAGATGGAGCCTTCAAGACAGCAACAGGATGCATGCAATCAATGGGTTTGTCTTTGGGAACCTTACCA  
 GAGTTGAGCATGTGTGCACAGAAGCATGTGGCCTGGCACTTGTGGCATGGGCAATGAAATAGATGTCC  
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 AGCTACCTTTGTGACTGCTGAGATGGTGGCCCAAAGTCTGGAACCTGGCTAATTAGCTGTGAAGTGAAC  
 AGCCACTTGAGAAGTGGCATGCAGGCCTTCTACAAGGTTGACTCTTGCTCCATGGACCCACCTGTGGACC  
 AGCTCACTGGCAAAGTTCGTCACTTCACTCAGGCCATGAGATTCAATGGGACTATGGTCCAATAGG  
 GTATGATGGCAGAACTGGGAAGAGTTTGGAGAGCCAGGAAGTGGCCAGATAAGTACTTCCAGAAGAGC  
 TCTAGTCAATTGGAGTACTTACTGAAAGTTGATATGAAGCCTTCAAGATGAGACATTCCAGGAAA  
 GGGTACATCAGGAAGAAGAAACACATCTTGAATACTGGGACCAGTGATAAGGGCTGAAGTGGGTGACAC  
 CATCCAGGTGGTCTTCTATAACCGTGCCTCCAGCCATTACGATACAGCCCATGGTGTCTTTATGAG  
 AAAAATCTGAGGGCACCGTGTACAATGATGGCACATCTCATCCCAAAGTAGCCAAGTCAATTTGAAAAAG



TCACATACTACTGGACGGTTCCTCCCCATGCTGGGCCACTGCTCAGGATCCTGCCTGTCTAACCTGGAT  
 GTACTTCTCTGCTGCAGATCCCACAAGAGATACAAATTCTGGCCTGGTGGGCCCTCTACTGGTGTGCAAG  
 GCTGGGGCCTTGGGTGCAGATGGCAAGCAGAAAGGAGTGGATAAAGAATTTTTCTCCTCTTCACTGTGT  
 TTGATGAGAATGAGAGCTGGTACAACAATGCCAATCAGGCAGCTGGTATGTTGGATTCCCGACTGCTCTC  
 AGAGGATGTCGAGGGCTCCAGGACTCCAATCGAATGCATGCTATTAATGGATTTCTGTTCTCTAACCTG  
 CCCAGGCTGGACATGTGCAAGGGTGATACTGTGGCCTGGCACCTGCTTGGCCTGGGCACAGAGACTGCTT  
 TACATGGGGTAATGTTTCGAGGGCAACACTGTGCAGCTTCAGGGCATGAGGAAAGGTGCAGTCATGCTCTT  
 TCCTCACACCTTTGTGACGGCCATCATGCAGCCTGACAATCCTGGAAATTTTGAATCTACTGCCAAGCA  
 GGCAGCCACCGAGAGGAAGGGATGCAGGCAATTTATAATGTCTCTCAGTGTCTAGTCATCAAGACAGCC  
 CACGCCAACACTACCAAGCTTCAAGAGTCTACTATATCATGGCAGAAGAGATAGAGTGGGATTACTGCC  
 TGATAGAAGCTGGGAAGTGGAAATGGCATAACACATCTGAGAAAGACAGCTATGGCCATGTTTTCTGAGC  
 AATAAAGATGGGCTCCTGGTTCCTCAAAATAAAGAAAGTGTATTCAGGGAATACACTGATGGTACTTTCA  
 GAATACCTCGGCAAGGTCTGGACCAGAGGAGCACTTGGGAATCCTGGTCCACTATCAGAGGAGAGGT  
 TGGTGATATCTTGACTGTAGTGTCAAGAATAAGGCCAGTCGACCATATCTATACATGCCCATGGAGTT  
 CTAGAATCTAACACTGGCGGGCCACAGGCTGCTGAGCCTGGTGAAGTACTTACTTACCAGTGAACATCC  
 CAGAAAGATCTGGTCCTGGTCTAGTACTCTGCTTGTGTTTCCTGGATTATTATTCTGCAGTGGATCC  
 CATCAAGGACATGTATAGTGGTCTGGTTGGACCCCTAGTCATCTGCAGAAATGGTATCTTGAACCCAAT  
 GGAGGCCGGAATGATATGGACCGGGAATTTGCCTTGTGTTTTGATCTTTGATGAGAACCAATCTTGGT  
 ATCTGAAGGAGAAATTTGCAACATATGGACCTCAAGAAATCAAGTCATGTTAACTGAAGGATGCCACCTT  
 CCTAGAGAGCAATAAAATGCATGCTATCAATGGGAACTCTATGCAAACCTCAGGGGTCTTACTGTATAC  
 CAAGGAGAACGAGTAGCCTGGTACATGCTAGCCATGGGCAAGATACTGACATTCACACTGTACACTTCC  
 ATGCAGAGAGTTTCTCTATCAGAATGGGCAAAGTTACAGGGCAGATGTGGTGGATCTCTCCAGGAAC  
 ATTTGAAGTTGTGGAGATGGTAGCCAGCAACCCGGGACATGGCTGATGCACTGCCATGTGACTGACCAT  
 GTTCATGCTGGCATGGAGACCATCTTTACGGTCTTGTCTCATGAAGAACATTTACGCACTATGACCACTA  
 TTAATAAGAGATTGGAAAAGCAGTGATTCTAAGGGACATTGGAGGTGACAATGTGAAGATGCTGGGCAT  
 GAACATCCCATAAAGGATGTAGAGATTCTGTCTTCTGCTTTGATTGCCATATGTGTGCTTCTGTTGCTC  
 ATTGCTCTGGCTCTTGGTGGTGTAGTCTGGTACCAGCATCGACAAAGAAAGCTTCGGCGCAACAGGAGGT  
 CCATTCTTGATGATAGCTTCAAGCTTCTCTCTCAAGCAATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001159627
- Insert Size:** 3474 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\\_001159627.1](#), [NP\\_001153099.1](#)

**RefSeq Size:** 4685 bp

**RefSeq ORF:** 3474 bp

**Locus ID:** 15203

**UniProt ID:** [Q9Z0Z4](#)

**Cytogenetics:** X 42.69 cM

**Gene Summary:** May function as a ferroxidase for ferrous (II) to ferric ion (III) conversion and may be involved in copper transport and homeostasis. Implicated in iron homeostasis and may mediate iron efflux associated to ferroportin 1.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (3) represents use of an alternate promoter, compared to variant 1, and encodes the longest isoform (1). Both variants 1 and 3 encode the same isoform.