

Product datasheet for MC223762

Heph (NM_001159628) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Heph (NM_001159628) 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: >MC223762 representing NM_001159628
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGGCAGGCCATCTTCTCTGGGCTTACTGTTGATGCACTCCTTGTGGTCTATACCAACTGATGGG
 CCATTCGAACTACTACTTGGGCATCCAGGATATGCAGTGAAGTATGCTCCCAAAGGAAGAAATGTCAT
 CACAAATCAGACTCTCAACAATGACACAGTGGCTTCCAGTTTCCGAAGTCTGGCAAAAACAGGATAGGG
 AGTAGTTACAAGAAGACTGTTTATAAGGAATACAGTGATGGCACATACACTGAAGAAATAGCCAAGCCTG
 CCTGGTTGGGCTTCTTAGGACCACTGTTACAGGCTGAGGTGGGGGATGTCATCTTGATTCACCTGAAGAA
 TTTTGGAGCCGACCTTACACCATTACCCCTCACGGTGTTTTTATGAGAAGGACTCAGAAGGCTCACTA
 TACCCAGATGGTTCTTCTGGGTATCTGAAAGCGGATGATTCTGTCCCCCTGGGGCAGCCATGTCTACA
 ACTGGAGTATCCAGAAAGTCAATGCCCCACTGAGGCAGACCCAGCATGCCTCACCTGGATTTACCACTC
 GCATGTAGATGCTCCAAGAGACATTGCAACTGGTCTCATTGGACCTTTATCACCTGTAAGAGGGGACC
 CTGGATGGTAATCCCCACCTCAGAGGAAGGATGTGGACCATAATTTCTCTCTCTTCAGTGTGATAG
 ATGAGAACCCTTAGCTGGCACCTTGATGACAACATTGCTACTTACTGCTCAGACCCTGCCTCGGTGGACAA
 AGAAGATGGAGCCTTCAAGACAGCAACAGGATGCATGCAATCAATGGGTTTGTCTTTGGGAACCTTACCA
 GAGTTGAGCATGTGTGCACAGAAGCATGTGGCCTGGCACTTGTGGCATGGGCAATGAAATAGATGTCC
 ACACAGCTTTCTCCATGGACAGATGCTGAGTATCCGTGGACACCACACTGATGTTGCAAACATTTTTCC
 AGCTACCTTTGTGACTGCTGAGATGGTGGCCCAAAAGTCTGGAACCTGGCTAATTAGCTGTGAAGTGAAC
 AGCCACTTGAGAAGTGGCATGCAGGCCTTCTACAAGGTTGACTCTTGCTCCATGGACCCACCTGTGGACC
 AGCTCACTGGCAAAGTTCGTCACTTCACTCAGGCCATGAGATTCAATGGGACTATGGTCCAATAGG
 GTATGATGGCAGAACTGGGAAGAGTTTGGAGAGCCAGGAAGTGGCCAGATAAGTACTTCCAGAAGAGC
 TCTAGTCAATTGGAGTACTTACTGAAAGTTGATATGAAGCCTTCAAGATGAGACATTCCAGGAAA
 GGGTACATCAGGAAGAAGAAACACATCTTGAATACTGGGACCAGTGATAAGGGCTGAAGTGGGTGACAC
 CATCCAGGTGGTCTTCTATAACCGTGCCTCCCAGCCATTGAGCATACAGCCCATGGTGTCTTTATGAG
 AAAAATCTGAGGGCACCGTGTACAATGATGGCACATCTCATCCCAAAGTAGCCAAGTCAATTTGAAAAAG



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TCACATACTACTGGACGGTTCCTCCCCATGCTGGGCCACTGCTCAGGATCCTGCCTGTCTAACCTGGAT
 GTACTTCTCTGCTGCAGATCCCACAAGAGATACAAATTCTGGCCTGGTGGGCCCTCTACTGGTGTCAAG
 GCTGGGGCCTTGGGTGCAGATGGCAAGCAGAAAGGAGTGGATAAAGAATTTTTCTCTTCTCACTGTGT
 TTGATGAGAATGAGAGCTGGTACAACAATGCCAATCAGGCAGCTGGTATGTTGGATTCCCAGCTGCTCTC
 AGAGGATGTCGAGGGCTCCAGGACTCCAATCGAATGCATGCTATTAATGGATTTCTGTTCTCTAACCTG
 CCCAGGCTGGACATGTGCAAGGGTGATACTGTGCCTGGCACCTGCTTGGCCTGGGCACAGAGACTGATG
 TACATGGGGTAATGTTTCGAGGGCAACACTGTGCAGCTTCAGGGCATGAGGAAAGGTGCAGTCATGCTCTT
 TCCTCACACCTTTGTGACGGCCATCATGCAGCCTGACAATCCTGGAAATTTTGAATCTACTGCCAAGCA
 GGCAGCCACCGAGAGGAAGGGATGCAGGCAATTTATAATGTCTCTCAGTGTCTAGTCATCAAGACAGCC
 CACGCCAACACTACCAAGCTTCAAGAGTCTACTATATCATGGCAGAAGAGATAGAGTGGGATTACTGCC
 TGATAGAAGCTGGGAAGTGGAAATGGCATAACACATCTGAGAAAGACAGCTATGGCCATGTTTTCTGAGC
 AATAAAGATGGGCTCCTGGTTCCAAATAAAGAAAGTGTATTCAGGGAATACACTGATGGTACTTTCA
 GAATACCTCGGCAAGGTCTGGACCAGAGGAGCACTTGGGAATCCTGGTCCACTATCAGAGGAGAGGT
 TGGTGATATCTTGACTGTAGTGTCAAGAATAAGGCCAGTCGACCATATCTATACATGCCCATGGAGTT
 CTAGAATCTAACACTGGCGGGCCACAGGCTGCTGAGCCTGGTGAAGTACTTACTTACCAGTGAACATCC
 CAGAAAGATCTGGTCTGGTCTAGTACTCTGCTTGTGTTTCCTGGATTATTATTCTGCAGTGGATCC
 CATCAAGGACATGTATAGTGGTCTGGTTGGACCCCTAGTCATCTGCAGAAATGGTATCTTGAACCCAAT
 GGAGGCCGGAATGATATGGACCGGGAATTTGCCTTGTGTTTTGATCTTTGATGAGAACCAATCTTGGT
 ATCTGAAGGAGAAATATTGCAACATATGGACCTCAAGAATCAAGTCATGTTAACTGAAGGATGCCACCTT
 CCTAGAGAGCAATAAAATGCATGCTATCAATGGGAACTCTATGCAAACCTCAGGGGTCTTACTGTATAC
 CAAGGAGAACGAGTAGCCTGGTACATGCTAGCCATGGGCAAGATACTGACATTCACACTGTACACTTCC
 ATGCAGAGAGTTTCTCTATCAGAATGGGCAAAGTTACAGGGCAGATGTGGTGGATCTCTCCCAGGAAC
 ATTTGAAGTTGTGGAGATGGTAGCCAGCAACCCGGGACATGGCTGATGCACTGCCATGTGACTGACCAT
 GTTCATGCTGGCATGGAGACCATCTTTACGGTCTTGTCTCATGAAGAACATTTACGCACTATGACCACTA
 TTAATAAGAGATTGGAAAAGTATTCTAAGGGACATTGGAGGTGACAATGTGAAGATGCTGGGCATGAA
 CATTCCCATAAAGGATGTAGAGATTCTGTCTTCTGCTTTGATTGCCATATGTGTGCTTCTGTTGCTCATT
 GCTCTGGCTCTTGGTGGTGTAGTCTGGTACCAGCATCGACAAAGAAAGCTTCGGCGCAACAGGAGGTCCA
 TTCTTGATGATAGCTTCAAGCTTCTCTCTCAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001159628
- Insert Size:** 3471 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_001159628.1](#), [NP_001153100.1](#)

RefSeq Size: 4663 bp

RefSeq ORF: 3471 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 (4) uses an alternate splice site in the 3' coding region, compared to variant 1. The resulting isoform (3) lacks one internal amino acid near the C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.