

Product datasheet for **MR215234**

Heph (NM_181273) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heph (NM_181273) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Heph
Synonyms:	C130006F04Rik; Cpl; mKIAA0698; sla
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215234 representing NM_181273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGCAGGCCATCTTCTCTGGGCTTTACTGTTGATGCACTCCTTGTGGTCTATACCAACTGATGGGG
 CCATTCGAAACTACTACTTGGGCATCCAGGATATGCAGTGGAACTATGCTCCCAAAGGAAGAAATGTCAT
 CACAAATCAGACTCTCAACAATGACACAGTGGCTTCCAGTTTCTGAAAGTCTGGCAAAAAAGGATAGGG
 AGTAGTTACAAGAAGACTGTTTATAAGGAATACAGTGTGGCACATACACTGAAGAAATAGCCAAGCCTG
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 TTTTGGCAGCCGACCTTACACCATTACCCCTCACGGTGTTTTTATGAGAAGGACTCAGAAGGCTCACTA
 TACCCAGATGGTCTTCTGGGTATCTGAAAGCGGATGATTCTGTCCCCCTGGGGCAGCCATGTCTACA
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 GCATGTAGATGCTCAAGAGACATTGCAACTGGTCTCATTGGACCTTTATCACCTGTAAGAGGGGACC
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 AAAAAGTCTGAGGGCACCGTGTACAATGATGATCCACAAGAGATACAAATCTGGCCTGGTGGGCCCTC
 TACTGGTGTGCAAGGCTGGGGCCTTGGGTGCAGATGGCAAGCAGAAAGGAGTGGATAAAGAAATTTTTCT
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 TCCCGACTGCTCTCAGAGGATGTGAGGGCTTCCAGGACTCCAATCGAATGCATGCTATTAATGGATTTT
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 TCTTGGGCTGGGCAGGTCACT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215234 representing NM_181273
 Red=Cloning site Green=Tags(s)

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MKAGHLLWALLLMHLSWSIPTDGAIRNYLGIQDMQWNYAPKGRNVITNQTLNNDTVASSFLKSGKNRIG
SSYKKTVYKEYSDGTYTEEIAKPAWLGFLGPLLQAEVGDVILIHLKNFASRPYTIHPHG VFYEK DSEGL
YPDGSSGYLKADDSVPPGGSHVYNWSIPESHAPTEADPACLTWIYHSHVDAPRDIATGLIGPLITCKRGT
LDGNPPQRKDVHDHNFLLFSVIDENLSWHLDDNIATYCSDPASVDKEDGAFQDSNRMHAINGFVFGNLP
ELSMCAQKHVAWHLFGMGNEIDVHTAFFHGQML SIRGHHTDVANIFPATFVTAEMVPQKSGTWLISCEVN
SHLRSGMQAFYKVDSCSMDPPVDQLTGKVRQYF IQAHEIQWDYGP IGYDGR TGKSLREPGSGPKYFQKS
SSRIGGTYWKVRYEAFQDETFQERVHQEEETHL GILGPVIRA EVGDTIQVVFYNRASQPF SIQPHGVFYE
KNSEGTVYNDP TRDTNSGLVGPLL VCKAGALGADGKQKGV DKEFFLLFTVFDENESWYNNANQAAGMLD
SRLLSEDFEGFQDSNRMHAINGFLFSNL PRLDMCKGDTVAWHL LGLGTETDVHGMVFEGNTVQLQGM RKG
AVMLFPHTFVTAIMQPDNPGIFEIYCQAGSHREEGMQAIY NVSQSSHQD SPRQHYQASRVVYIMAEIE
WDYCPDRSWELEWHNTSEKDSYGHVFLSNKDGLLGSKYK KAVFREYTDGTFRIPRPRSGPEEHLGILGPL
IRGEVDILT VVFKNKASRPYSIHAHGVLESNTGGPQAAEPGELEHLMKRQRL YNPFTLVFWFIPFNI L
SWAGQVT
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

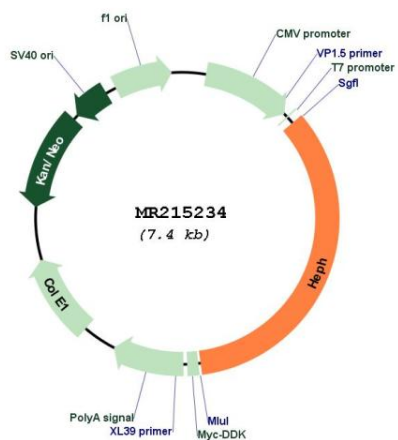
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_181273
ORF Size:	2541 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:	<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_181273.4 , NP_851790.1
RefSeq Size:	3931 bp
RefSeq ORF:	2544 bp
Locus ID:	15203
UniProt ID:	Q9Z0Z4
Cytogenetics:	X 42.69 cM
MW:	95.6 kDa
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]

Product images:



Circular map for MR215234