

Product datasheet for MR223507

Hp (NM_017370) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hp (NM_017370) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hp
Synonyms:	HP-; HP-1; pre; preHP2; zo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223507 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAGAGCCCTGGGAGCTGTTGTCCTCTCTGCTCTGGGGTCAGCTTTTTGCTGTGGAGTTGGGCAATG
ATGCCATGGACTTTGAAGATGACAGCTGCCAAAGCCCCAGAGATTGCAAACGGCTATGTGGAGCACTT
GGTTCGCTATCGCTGCCGACAGTTCTACAGACTACGGGCCGAAGGAGATGGGGTGTACACCTTAAACGAC
GAGAAGCAATGGGTGAACACAGTCGCTGGAGAGAACTCCCCGAATGTGAGGCAGTGTGTGGGAAGCCCA
AGCACCCTGTGGACCAGGTGCAGCGCATCATCGGTGGCTCTATGGATGCCAAAGGCAGCTTTCCTTGGCA
GGCCAAGATGATCTCCCGCCACGGACTACCACCAGGGGCCACGTTGATCAGTGACCAGTGGCTGCTGACC
ACGGCCAAAAACCTCTTCTGAACCACAGCGAGACGGCGTCAGCCAAGGACATCACCCCCACCCTAACGC
TCTACGTGGGGAAAAACAGCTGGTGGAGATTGAGAAGGTCGTTCTCCACCCCAACCACTCCGTGGTGGGA
TATCGGGCTAATCAAACCAAGCAGAGGGTGTGTAACCGAGAGAGTCAATGCCTATCTGCCTGCCTTCC
AAAGACTACATAGCACCAGGCCGTGTGGGCTACGTGTCTGGTGGGGCGGAACGCCAACTTTAGATTTA
CCGATCGTCTCAAGTATGTCATGCTGCCTGTGGCCGACCAGGACAAGTGTGTGGTGCCTATGAGAATAG
TACAGTGCCCGAGAAGAAAACTTGACGAGTCCCGTTGGGGTCCAGCCTATCTTGAACGAGCACACCTTC
TGTGCTGGCCTACCAAGTACCAGGAAGACACCTGTACGGTGACGCCGGCAGTGCCTTTGCCATTGATG
ACATGGAGGAGGACACCTGGTACGACGCTGGGATCCTGAGCTTTGACAAGAGCTGCGCTGTGCTGAGTA
TGGTGTGTACGTGAGGGCGACCGACCTGAAGGACTGGGTTTCAGGAAACCATGGCCAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223507 protein sequence
Red=Cloning site Green=Tags(s)

MRALGAVVTL LLLWGQLF AVELGNDAMDFEDDSCPPEIANGYVEHLVRYRCRQFYRLRAEGDGVYTLND
 EKQWVNTVAGEKLP ECEAVCGKPKHPVDQVQRI IGGSM DAKGSFPWQAKMISRHLTTGATLISDQWLLT
 TAKNFLFNHSETASAKDITPTLTYVVGKNQLVEIEKVVLHPNHSVVDIGLIKLRVLTERTVMPICLPS
 KDYIAPGRVGYVSGWGRNANFRFTDRLKYVMLPVADQDKCVVHYENSTVPEKKNLTPSPVGVQPI LNEHTF
 CAGLTKYQEDTCYGDAGSAFAIHMEEDTWYAAAGILSFDKSCAVAEYGVYVRATDLKDWVQETMAKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_017370

ORF Size: 1044 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.

RefSeq: [NM_017370.2](#), [NP_059066.1](#)

RefSeq Size: 1365 bp

RefSeq ORF: 1044 bp

Locus ID: 15439

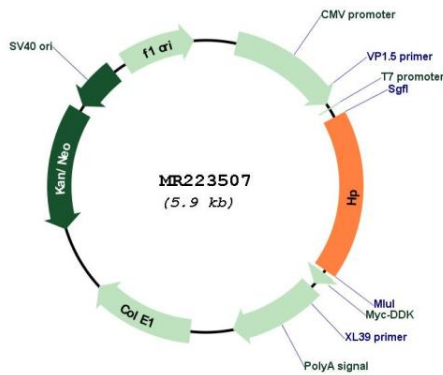
UniProt ID: [Q61646](#)

Cytogenetics: 8 57.11 cM

MW: 38.8 kDa

Gene Summary: This gene encodes a plasma glycoprotein called haptoglobin that binds free hemoglobin. The encoded preproprotein undergoes proteolytic processing to generate alpha and beta subunits that form a disulfide-linked tetrameric protein that plays an important role in the sequestration and clearance of extracorporeal hemoglobin. Mice lacking the encoded protein exhibit stunted development of lymphoid organs associated with lower counts of mature T and B cells in the blood and secondary lymphoid compartments. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR223507