

Product datasheet for SC112995

HEPC (HAMP) (NM_021175) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEPC (HAMP) (NM_021175) Human Untagged Clone
Tag:	Tag Free
Symbol:	HEPC
Synonyms:	HEPC; HFE2B; LEAP1; PLTR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_021175 edited ATGGCACTGAGCTCCCAGATCTGGGCCGCTTGCCTCCTGCTCCTCCTCCTCGCCAGC CTGACCAGTGGCTCTGTTTTCCACAACAGACGGGACAACCTTGACAGCTGCAACCCAG GACAGAGCTGGAGCCAGGCCAGCTGGATGCCCATGTTCCAGAGCGAAGGAGGCCGAGAC ACCCACTTCCCCATCTGCATTTTCTGCTGCGGCTGCTGTCATCGATCAAAGTGTGGGATG TGCTGCAAGACGTAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_021175 unedited NNGGTCAGATTTGTATACGACTCATATAGGCGGCNCGGAATTCGCACAAAAGACCCAG CAGTGGGACAGCCAGACAGACGGCAGCATGGCACTGAGCTCCCAGATCTGGGCCGCTTGC CTCCTGCTCCTCCTCCTCGCCAGCCTGACCAGTGGCTCTGTTTTCCACAACAGACG GGACAACCTTGACAGCTGCAACCCAGGACAGAGCTGGAGCCAGGCCAGCTGGATGCC ATGTTCCAGAGCGAAGGAGGCGAGACCCACTTCCCCATCTGCATTTTCTGCTGCGGC TGCTGTCATCGATCAAAGTGTGGGATGTGCTGCAAGACGTAGAACCTACCTGCCCTGCC CCGTCCCCTCCCTTCTTATTTTCTGCTGCCCCAGAACATAGGTCTTGAATAAAAT GGCTGGTTCTTTTGTTCACAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG CGGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAGTGC CTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTAATAAAATTA GTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAATATTATGGGGTGGAGGGGNGGTG GTATGGAGCAAGGGGCAAGTTGGGAAGACAACCTGTAGGGCTGCGGNGTCTATTGGGAA CCAAGCTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAATCTCCGCCTCCTGGGTTCAA GCGATTCTCCTGCCTCAGCCTCCCGAGTTGTTGGGATTCCAGNCATGCATNGACCAGCTC AGCTAATTTTTGGTTTTTGGTAGAGACGGGNTTACCATATTGGGCCAGCTGGTCTCC AACTCTAATCTCAGTGATCTACC
Restriction Sites:	NotI-NotI
ACCN:	NM_021175



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Insert Size:	500 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:	<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_021175.2 , NP_066998.1
RefSeq Size:	430 bp
RefSeq ORF:	255 bp
Locus ID:	57817
UniProt ID:	P81172
Cytogenetics:	19q13.12
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	<p>The product encoded by this gene is involved in the maintenance of iron homeostasis, and it is necessary for the regulation of iron storage in macrophages, and for intestinal iron absorption. The preproprotein is post-translationally cleaved into mature peptides of 20, 22 and 25 amino acids, and these active peptides are rich in cysteines, which form intramolecular bonds that stabilize their beta-sheet structures. These peptides exhibit antimicrobial activity against bacteria and fungi. Mutations in this gene cause hemochromatosis type 2B, also known as juvenile hemochromatosis, a disease caused by severe iron overload that results in cardiomyopathy, cirrhosis, and endocrine failure. [provided by RefSeq, Oct 2014]</p>