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Product datasheet for MR227187

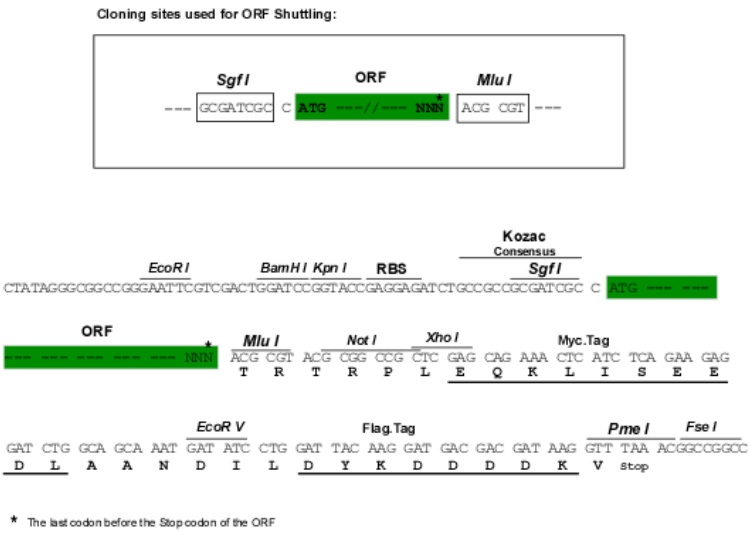
Hamp (NM_032541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hamp (NM_032541) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hamp
Synonyms:	Hamp1; Hep; Hepc; Hepc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227187 representing NM_032541 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCACTCAGCACTCGGACCCAGGCTGCCTGTCTCCTGCTTCTCCTCCTTGCCAGCCTGAGCAGCACCA CCTATCTCCATCAACAGATGAGACAGACTACAGAGCTGCAGCCTTTGCACGGGGAAGAAAGCAGGGCAGA CATTGCGATACCAATGCAGAAGAGAAGGAAGAGAGACACCAACTTCCCCATCTGCATCTTCTGCTGTAAA TGCTGTAACAATTCCCAGTGTGGTATCTGTTGCAAAACA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR227187 representing NM_032541 Red=Cloning site Green=Tags(s) MALSTRTQAACLLLLLLASLSSTTYLHQQMRQTTELQPLHGEESRADIAIPMQKRRKRDTNFPICIFCCK CCNNSQCGICCKT TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mm9053_b04.zip
Restriction Sites:	SgfI-MluI

View online »

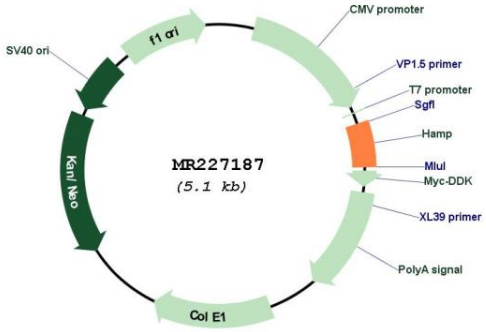
Cloning Scheme:



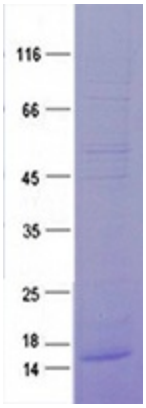
ACCN:	NM_032541
ORF Size:	249 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032541.2
RefSeq Size:	410 bp

RefSeq ORF:	252 bp
Locus ID:	84506
UniProt ID:	Q9EQ21
Cytogenetics:	7 19.27 cM
MW:	9.8 kDa
Gene Summary:	This gene encodes hepcidin, an antimicrobial peptide and master hormonal regulator of systemic iron metabolism. The encoded preproprotein is synthesized in the hepatocytes where it undergoes proteolytic processing to generate disulfide-linked mature peptides that are secreted into the bloodstream. Mice lacking the encoded protein develop multivisceral iron overlaod, with sparing of the spleen macrophages. Certain mutations in the human ortholog of this gene cause hemochromatosis type 2B, also known as juvenile hemochromatosis. This gene is located adjacent to a related hepcidin gene on chromosome 7. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR227187



Coomassie blue staining of purified Hamp protein (Cat# [TP527187]). The protein was produced from HEK293T cells transfected with Hamp cDNA clone (Cat# MR227187) using MegaTran 2.0 (Cat# [TT210002]).