

Product datasheet for **MG227187**

Hamp (NM_032541) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hamp (NM_032541) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hamp
Synonyms: Hamp1; Hep; Hepc; Hepc1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227187 representing NM_032541
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACTCAGCACTCGGACCCAGGCTGCCTGTCTCCTGCTTCTCCTCCTTGCCAGCCTGAGCAGCACCA
CCTATCTCCATCAACAGATGAGACAGACTACAGAGCTGCAGCCTTGCACGGGAAGAAAGCAGGGCAGA
CATTGCGATACCAATGCAGAAGAGAAGGAAGAGAGACCAACTCCCCATCTGCATCTTCTGCTGTAA
TGCTGTAACAATTCCAGTGTGGTATCTGTTGCAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227187 representing NM_032541
Red=Cloning site Green=Tags(s)

MALSTRQAACLLLLLLASLSSTTYLHQQMRQTTELQPLHGEESRADIAIPMQRRKRDTNFPICIFCK
CCNNSQCGICCKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:

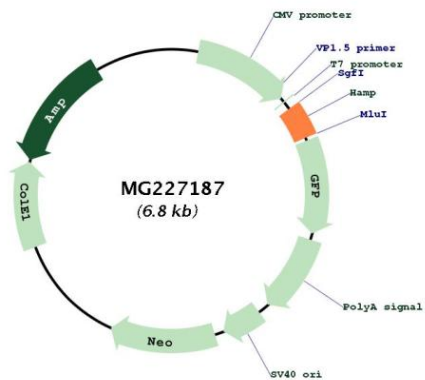
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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

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 overload, 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 MG227187