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Product datasheet for RC221292

Hepsin (HPN) (NM_182983) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hepsin (HPN) (NM_182983) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hepsin
Synonyms:	TMPRSS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC221292 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCAGAAGGAGGGTGGCCGGACTGTGCCATGCTGCTCCAGACCCAAGGTGGCAGCTCTCACTGCGG
GGACCCTGCTACTTCTGACAGCCATCGGGGCGGCATCCTGGGCCATTGTGGCTGTTCTCCTCAGGAGTGA
CCAGGAGCCGCTGTACCCAGTGCAGGTCAGCTCTGCGGACGCTCGGCTCATGGTCTTTGACAAGACGGAA
GGGACGTGGCGGCTGCTGTGCTCCTCGCGCTCCAACGCCAGGGTAGCCGGACTCAGCTGCGAGGAGATGG
GCTTCCTCAGGGCACTGACCCACTCCGAGCTGGACGTGCGAACGGCGGGCGCCAATGGCACGTCGGGCTT
CTTCTGTGTGGACGAGGGGAGGCTGCCCCACACCCAGAGGCTGCTGGAGGTCATCTCCGTGTGTGATTGC
CCCAGAGGCCGTTTCTTGGCCGCCATCTGCCAAGACTGTGGCCGCAGGAAGCTGCCCGTGGACCGCATCG
TGGGAGGCCGGGACACCAGCTTGGGCCGGTGGCCGTGGCAAGTCAGCCTTCGCTATGATGGAGCACACCT
CTGTGGGGGATCCCTGCTCTCCGGGGACTGGGTGCTGACAGCCGCCCATTGCTTCCCGGAGCGGAACCGG
GTCCTGTCCCGATGGCGAGTGTTTGCCGGTGCCGTGGCCCAGGCCTCTCCCCACGGTCTGCAGCTGGGGG
TGCAGGCTGTGGTCTACCACGGGGGCTATCTTCCCTTTCGGGACCCCAACAGCGAGGAGAACAGCAACGA
TATTGCCCTGGTCCACCTCTCCAGTCCCCTGCCCCTCACAGAATACATCCAGCCTGTGTGCCTCCCAGCT
GCCGGCCAGGCCCTGGTGGATGGCAAGATCTGTACCGTGACGGGCTGGGGCAACACGCAGTACTATGGCC
AACAGGCCGGGGTACTCCAGGAGGCTCGAGTCCCCATAATCAGCAATGATGTCTGCAATGGCGCTGACTT
CTATGGAAACCAGATCAAGCCCAAGATGTTCTGTGCTGGCTACCCCGAGGGTGGCATTGATGCCTGCCAG
GGCGACAGCGGTGGTCCCTTTGTGTGTGAGGACAGCATCTCTCGGACGCCACGTTGGCGGCTGTGTGGCA
TTGTGAGTTGGGGCACTGGCTGTGCCCTGGCCCAGAAGCCAGGCGTCTACACCAAAGTCAGTGACTTCCG
GGAGTGGATCTTCCAGGCCATAAAGACTCACTCCGAAGCCAGCGGCATGGTGACCCAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

```
>RC221292 protein sequence
Red=Cloning site Green=Tags(s)

MAQKEGGRTVPCCSRPKVAALTAGTLLLLTAIGAASWAIVAVLLRSDQEPLYPVQVSSADARLMVFDKTE
GTWRLLCSSRSNARVAGLSCEEMGFLRALTHSELDVRTAGANGTSGFFCVDEGRLPHTQRLLEVISVCDC
PRGRFLAAICQDCGRRKLPVDRIVGGRDTSLGRWPWQVSLRYDGAHLCGGSLLSGDWVLTAAHCFPERNR
VLSRWRVFAGAVAQASPHGLQLGVQAVVYHGGYLPFRDPNSEENSNDIALVHLSSPLPLTEYIQPVCLPA
AGQALVDGKICTVTGWGNTQYYGQQAGVLQEARVPIISNDVCNGADFYGNQIKPKMFCAGYPEGGIDACQ
GDSGGPFVCEDSISRTPRWRLCGIVSWGTGCALAQKPGVYTKVSDFREWIFQAIKTHSEASGMVTQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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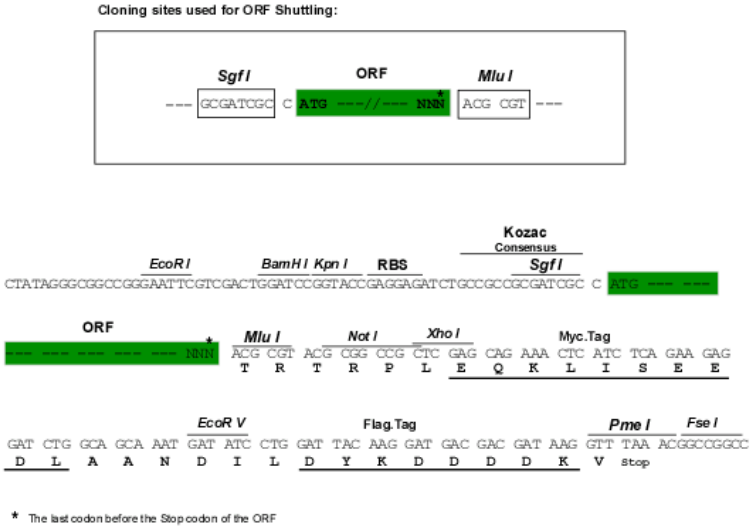
Chromatograms: https://cdn.origene.com/chromatograms/mk6328_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182983

ORF Size: 1251 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).

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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_182983.2, NP_892028.1
RefSeq Size:	2389 bp
RefSeq ORF:	1254 bp
Locus ID:	3249
UniProt ID:	P05981
Cytogenetics:	19q13.11
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	45 kDa
Gene Summary:	This gene encodes a type II transmembrane serine protease that may be involved in diverse cellular functions, including blood coagulation and the maintenance of cell morphology. Expression of the encoded protein is associated with the growth and progression of cancers, particularly prostate cancer. The protein is cleaved into a catalytic serine protease chain and a non-catalytic scavenger receptor cysteine-rich chain, which associate via a single disulfide bond. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

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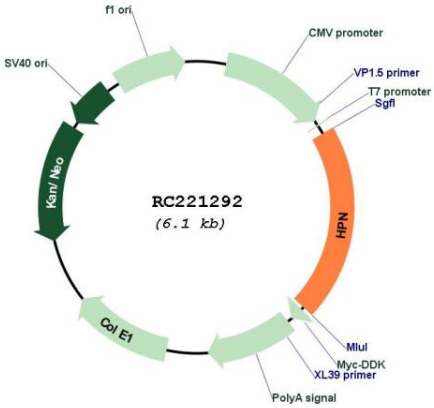
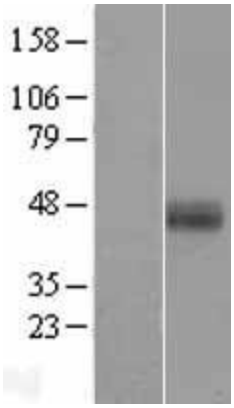
Product images:



Circular map for RC221292



Western blot validation of overexpression lysate (Cat# [LY405297]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221292 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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