

Product datasheet for **RG206594**

Hepsin (HPN) (NM_002151) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Hepsin
Synonyms:	TMPRSS1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206594 representing NM_002151
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCAGAAGGAGGGTGGCCGGACTGTGCCATGCTGCTCCAGACCCAAGGTGGCAGCTCTCACTGCGG
GGACCTTGCTACTTCTGACAGCCATCGGGGCGGCATCTGGGCCATTGTGGCTGTTCTCCTCAGGAGTGA
CCAGGAGCCGCTGTACCCAGTGCAGGTGAGCTCTGCGGACGCTCGGCTCATGGTCTTTGACAAGACGGAA
GGGACGTGGCGGCTGCTGTCTCTCGCGCTCCAACGCCAGGGTAGCCGGAAGTCACTGCGAGGAGATGG
GCTTCCTCAGGGCACTGACCACTCCGAGCTGGACGTGCGAACGGCGGGCGCAATGGCACGTCGGGCTT
CTTCTGTGTGGACGAGGGGAGGCTGCCCCACACCCAGAGGCTGCTGGAGGTGATCTCCGTGTGTATTGC
CCCAGAGGCCGTTTCTTGGCCGCATCTGCCAAGACTGTGGCCGAGGAAGCTGCCCGTGGACCGCATCG
TGGGAGGCCGGGACACAGCTTGGGCCGTGGCCGTGGCAAGTCAAGCTTCGCTATGATGGAGCACCT
CTGTGGGGGATCCCTGCTCTCCGGGACTGGGTGCTGACAGCCGCCATTGCTTCCCGAGCGGAACCGG
GTCCTGTCCCGATGGCGAGTGTTCGCGGTGCCGTGGCCAGGCCCTCTCCACGGTCTGACGTGGGGG
TGCAGGCTGTGGTCTACACGGGGGCTATCTTCCCTTCGGGACCCCAACAGCGAGGAGAACAGCAACGA
TATTGCCCTGGTCCACCTCTCAGTCCCCTGCCCTCACAGAATACATCCAGCTGTGTGCTCCAGCT
GCCGGCCAGGCCCTGGTGGATGGCAAGATCTGTACCGTGACGGGCTGGGGCAACAGCAAGTACTATGGCC
AACAGGCCGGGTAAGTCCAGGAGGCTCGAGTCCCATAATCAGCAATGATGTCTGCAATGGCGCTGACTT
CTATGGAACAGATCAAGCCCAAGATGTTCTGTGCTGGCTACCCGAGGGTGGCATTGATGCCTGCCAG
GGCGACAGCGGTGGTCCCTTTGTGTGTGAGGACAGCATCTCTCGGACGCCAGTTGGCGGCTGTGTGCA
TTGTGAGTTGGGGCACTGGCTGTGCCCTGGCCAGAACGCCAGGCGTCTACACCAAAGTCAGTGACTCCG
GGAGTGGATCTTCCAGGCCATAAAGACTCACTCCGAAGCCAGCGGCATGGTGACCCAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG206594 representing NM_002151
Red=Cloning site Green=Tags(s)

MAQKEGGRTVPCCSRPKVAALTAGTLLLLTAIGAASWAIVAVLLRSDQEPLYPVQVSSADARLMVFDKTE
GTWRLLCSSRSNARVAGLSCEEMGFLRALTHSELDVRTAGANGTSGFFCVDEGRLPHTQRLLEVISVCDC
PRGRFLAAICQDCGRRKLPVDRIVGGRDTSLSRWPWQVSLRYDGAHLGGSLSSGDWVLTAAHCFPERNR
VLSRWRFAGAVAQASPHGLQLGVQAVVYHGGYLPFRDPNSEENSNDIALVHLSSPLPLTEYIQPVCLPA
AGQALVDGKICTVTGWGNTQYYGQQAGVLQEARVPIISNDVCNGADFYGNQIKPKMFCAGYPEGGIDACQ
GDSGGPFVCEDSISRTPRWRLCGIVSWGTCALAQKPGVYTKVSDFREWFQAIKTHSEASGMVTQL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002151

ORF Size: 1251 bp

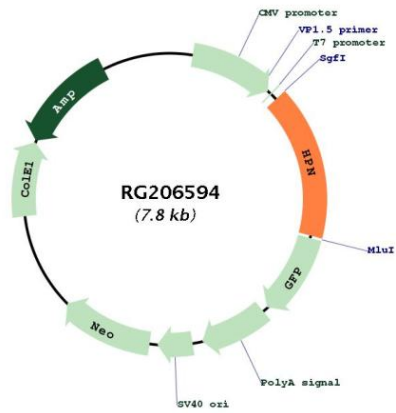
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

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:	<u>NM_002151.1, NP_002142.1</u>
RefSeq Size:	1783 bp
RefSeq ORF:	1254 bp
Locus ID:	3249
UniProt ID:	<u>P05981</u>
Cytogenetics:	19q13.11
Domains:	SR, Tryp_SPc
Protein Families:	Druggable Genome, Protease, Transmembrane
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]

Product images:



Circular map for RG206594