

Product datasheet for **SC321709**

Hepsin (HPN) (NM_002151) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hepsin (HPN) (NM_002151) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hepsin
Synonyms:	TMPRSS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002151.1
 GCCTGGCCTAGCAGGCCCCACGCCACCGCCTCTGCCTCCAGGCCCGCTGCTGCGGGG
 CCACCATGCTCCTGCCAGGCCTGGAGACTGACCCGACCCGGCACTACCTCGAGGCTCC
 GCCCCACCTGCTGGACCCAGGGTCCCACCCTGGCCAGGAGGTAGCCAGGGAATCAT
 TAACAAGAGGCAGTGACATGGCGCAGAAGGAGGGTGGCCGGACTGTGCCATGCTGCTCCA
 GACCCAAGGTGGCAGCTCTACTGCGGGGACCTGCTACTTCTGACAGCCATCGGGGCGG
 CATCCTGGGCCATTGTGGCTGTTCTCCTCAGGAGTGACCAGGAGCCGTGTACCCAGTGC
 AGGTCAGCTCTGCGGACGCTCGGCTCATGGTCTTTGACAAGACGGAAGGGACGTGGCGGC
 TGCTGTGCTCCTCGCGCTCCAACGCCAGGGTAGCCGACTCAGCTGCGAGGAGATGGGCT
 TCCTCAGGGCACTGACCCACTCCGAGCTGGACGTGCGAACGGCGGGGCCAATGGCACGT
 CGGGCTTCTTCTGTGTGGACGAGGGGAGGCTGCCCCACCCAGAGGCTGCTGGAGGTCA
 TCTCCGTGTGTGATTGCCCCAGAGGCCGTTTCTTGGCCGCCATCTGCAAGACTGTGGCC
 GCAGGAAGCTGCCCGTGGACCGCATCGTGGGAGGCCGGGACACCAGCTTGGGCCGGTGGC
 CGTGGCAAGTCAGCCTTCGCTATGATGGAGCACACCTCTGTGGGGATCCCTGCTCTCCG
 GGGACTGGGTGCTGACAGCCGCCATTGCTTCCCGGAGCGGAACCGGGTCTGTCCCGAT
 GCGGAGTGTGGCCGGTGCCTGGCCAGGCCTCTCCCCACGGTCTGCAGCTGGGGGTGC
 AGGCTGTGGTCTACCACGGGGGCTATCTTCCCTTTCGGGACCCCAACAGCGAGGAGAACA
 GCAACGATATTGCCCTGGTCCACCTCTCCAGTCCCCTGCCCTCACAGAATACATCCAGC
 CTGTGTGCTCCTCCAGCTGCCGGCCAGGCCCTGGTGGATGGCAAGATCTGTACCCTGACGG
 GCTGGGGCAACACGCAGTACTATGGCCAACAGGCCGGGTACTCCAGGAGGCTCGAGTCC
 CCATAATCAGCAATGATGTCTGCAATGGCGTGAATCTATGGAAACCAGATCAAGCCCA
 AGATGTTCTGTGCTGGCTACCCGAGGGTGGCATTGATGCCTGCCAGGGGACAGCGGTG
 GTCCTTTTGTGTGTGAGGACAGCATCTCTCGGACGCCAGTTGGCGGCTGTGTGGCATTG
 TGAGTTGGGGCACTGGCTGTGCCCTGGCCAGAAGCCAGGCGTCTACACCAAAGTCAGTG
 ACTTCCGGGAGTGGATCTTCCAGCCATAAAGACTCACTCCGAAGCCAGCGGCATGGTGA
 CCCAGCTCTGACCGTGGCTTCTCGCTGCGCAGCCTCCAGGGCCCGAGGTGATCCCGGTG
 GTGGGATCCACGCTGGGCCGAGGATGGGACGTTTTTCTTCTTGGGCCCGTCCACAGGTC
 CAAGGACACCCTCCCTCCAGGGTCTCTTCCACAGTGGCGGGCCACTCAGCCCCGAG
 ACCACCCAACCTACCCTCCTGACCCCATGTAATAATTGTTCTGCTGTCTGGGACTCCT
 GTCTAGGTGCCCTGATGATGGGATGCTCTTAAATAATAAAGATGGTTTTGATTA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002151

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_002151.1](#), [NP_002142.1](#)

RefSeq Size: 1783 bp

RefSeq ORF: 1254 bp

Locus ID: 3249

UniProt ID: [P05981](#)

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.