

Product datasheet for **MR229951**

Hpn (NM_001276269) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpn (NM_001276269) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hpn
Synonyms:	Hlb32; Hlb320
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR229951 representing NM_001276269
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGTCGGAGCTAGAGACGACGCTGGGCACATGGCAGATGAGGAACCTGGGGCTCACAGAGGAGTT
 CCACTTGTTCAGACCCCAACCTGGAAAGGGTGGCCGGACTGCAGCATGCTGCTCCAGACCAAGGTGGC
 AGCTCTCATTGTGGGTACCCTGCTGTTCTGACAGGCATTGGGGCCGCGTCTGGCCATTGTGACCATC
 CTAAGTGCAGAGTGACCAGGAGCCACTGTACCAAGTGCAGCTCAGTCCAGGGGACTCACGGCTTGGGTGT
 TTGACAAGACGGAGGAACTGGAGGCTACTGTGCTCCTCACGCTCCAATGCCAGGGTGGCAGGGCTCGG
 CTGTGAGGAGATGGGCTTTCTCAGGGCTCTGGCGCACTCGGAGCTGGATGTGCGCACTGCGGGGCCAAC
 GGCACATCGGGCTTCTTTGCGTGGACGAGGGCGGACTGCCTCTGGCTCAGAGGTTGCTGGATGTCATCT
 CTGTATGTGACTGCTTAGAGGCCGATTCTGACTGCCACCTGCCAAGACTGTGGCCGAGGAAGCTGCC
 GGTGGACCGCATTGTGGGGGCCAGGACAGCAGTCTGGGAAGGTGGCCGTGGCAGGTGAGCTGCGTTAT
 GATGGGACCCACCTCTGTGGGGGTCCCTGCTGTCTGGGACTGGGTGCTGACTGCTGCACATTGCTTTC
 CAGAGCGGAACCGGGTCTGTCTCGGTGGCGAGTATTTGCTGGTGTGTAGCCCGGACCTCACCCATGC
 TGTGCAACTGGGGTTCAGGCTGTGATCTATCATGGGGCTACCTTCCCTTTCGAGACCCTACTATCGAC
 GAAAACAGCAATGACATTGCCTTGGTCCACCTCTTAGCTCCCTGCCTCTCACAGAATACATCCAGCCAG
 TGTGTCTCCCTGCTGCGGGACAGGCCCTGGTGGATGGCAAGGTCTGTACTGTGACCGGCTGGGGTAACAC
 ACAGTTCTATGGCAACAGGCTATGGTGTCTCAAGAGGCCCGGTTCCCATCATAAGCAACGAAGTTTGC
 AACAGCCCGACTTCTACGGGAATCAGATCAAGCCCAAGATGTTCTGTGCTGGCTATCCTGAGGGTGGCA
 TTGATGCGGTGCCAGGGCGACAGTGGAGGCCCTTTGTGTGTGAAGACAGCATCTCTGGACATCAAGGTG
 CGGGCTATGTGGCATTGTAAGCTGGGGTACGGGCTGTGCTTTGGCCCGAAGCCAGGAGGTACACCAAA
 GCACTGACTTCCGGGAGTGGATCTTCAAGGCCATAAAGACTCACTCCGAGCCAGTGGCATGGTACTC
 AGCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229951 representing NM_001276269
 Red=Cloning site Green=Tags(s)

MWVGARD DAGHMADEEPGAHRGGSTCSRPPQPGKGGRTAACCSRPKVAALIVGTLFLFTGIGAASWAIVTI
 LLQSDQEPLYQVQLSPGDSRLAVFDKTEGTWRLLCSSRSNARVAGLGCEEMGFLRALHSEL DVRTAGAN
 GTSGFFCVDEGGLPLAQRLLDVISVDCDCPRGRFLTATCQDCGRRKLPVDRIVGGQDSSLGRWPQVSLRY
 DGTHLCGGSLLSGDWVLTAAHCFPERNRVLSRWRVFAVAVARTSPHAVQLGVQAVIYHGGYLPFRDPTID
 ENSNDIALVHLSSSLPLTEYIQPVCLPAAGQALVDGKVCVTGTWGNTQFYGQQAMVLQEARVPIISNEVC
 NSPDFYGNQIKPKMFCAGYPEGGIDACQDSSGGPFVCEDSISGTSRWRLCGIVSWGTCALARKPGVYTK
 VTDFREWIFKAIKTHSEASGMVTQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

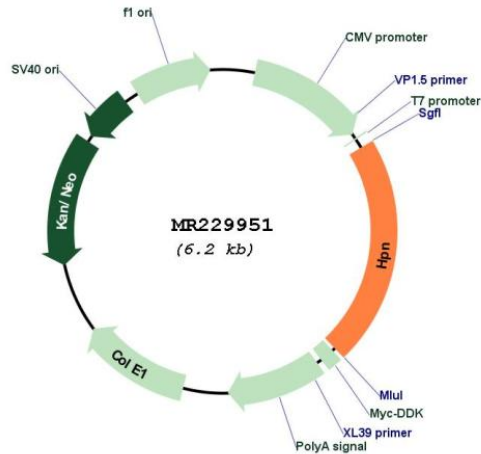
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276269

ORF Size: 1335 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.

RefSeq: [NM_001276269.1](#), [NP_001263198.1](#)

RefSeq Size: 1743 bp

RefSeq ORF: 1338 bp

Locus ID: 15451

UniProt ID: [O35453](#)

Cytogenetics: 7 B1

MW: 48.2 kDa

Gene Summary: This gene encodes a type II transmembrane serine protease that may function in diverse processes, including regulation of cell growth. Deficiency in this gene results in hearing loss. 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. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2013]