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Product datasheet for MR219750

Hpn (NM_001110252) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpn (NM_001110252) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hpn
Synonyms:	Hlb32; Hlb320
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR219750 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAAGGAGGATGAGGAACCTGGGGCTCACAGAGGAGGTTCCACTTGTTCAAGACCCCAACCTGGAA
AGGGTGGCCGGACTGCAGCATGCTGCTCCAGACCCAAGGTGGCAGCTCTCATTGTGGGTACCCTGCTGTT
CCTGACAGGCATTGGGGCCGCGTCCTGGGCCATTGTGACCATCCTACTGCAGAGTGACCAGGAGCCACTG
TACCAAGTGCAGCTCAGTCCAGGGGACTCACGGCTTGCGGTGTTTGACAAGACGGAGGGAACGTGGAGGC
TACTGTGCTCCTCACGCTCCAATGCCAGGGTGGCAGGGCTCGGCTGTGAGGAGATGGGCTTTCTCAGGGC
TCTGGCGCACTCGGAGCTGGATGTGCGCACTGCGGGCGCCAACGGCACATCGGGCTTCTTTTGCGTGGAC
GAGGGCGGACTGCCTCTGGCTCAGAGGTTGCTGGATGTCATCTCTGTATGTGACTGTCCTAGAGGCCGAT
TCCTGACTGCCACCTGCCAAGACTGTGGCCGCAGGAAGCTGCCGGTGGACCGCATTGTGGGGGGCCAGGA
CAGCAGTCTGGGAAGGTGGCCGTGGCAGGTCAGCCTGCGTTATGATGGGACCCACCTCTGTGGGGGGTCC
CTGCTGTCTGGGGACTGGGTGCTGACTGCTGCACATTGCTTTCCAGAGCGGAACCGGGTCCTGTCTCGGT
GGCGAGTATTTGCTGGTGCTGTAGCCCGGACCTCACCCCATGCTGTGCAACTGGGGGTTCAGGCTGTGAT
CTATCATGGGGGCTACCTTCCCTTTCGAGACCCTACTATCGACGAAAACAGCAATGACATTGCCTTGGTC
CACCTCTCTAGCTCCCTGCCTCTCACAGAATACATCCAGCCAGTGTGTCTCCCTGCTGCGGGACAGGCCC
TGGTGGATGGCAAGGTCTGTACTGTGACCGGCTGGGGTAACACACAGTTCTATGGCCAACAGGCTATGGT
GCTCCAAGAGGCCCGGGTTCCCATCATAAGCAACGAAGTTTGCAACAGCCCCGACTTCTACGGGAATCAG
ATCAAGCCCAAGATGTTCTGTGCTGGCTATCCTGAGGGTGGCATTGATGCGTGCCAGGGCGACAGTGGAG
GCCCCTTTGTGTGTGAAGACAGCATCTCTGGGACATCAAGGTGGCGGCTATGTGGCATTGTAAGCTGGGG
TACGGGCTGTGCTTTGGCCCGGAAGCCAGGAGTGTACACCAAAGTCACTGACTTCCGGGAGTGGATCTTC
AAGGCCATAAAGACTCACTCCGAAGCCAGTGGCATGGTGACTCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

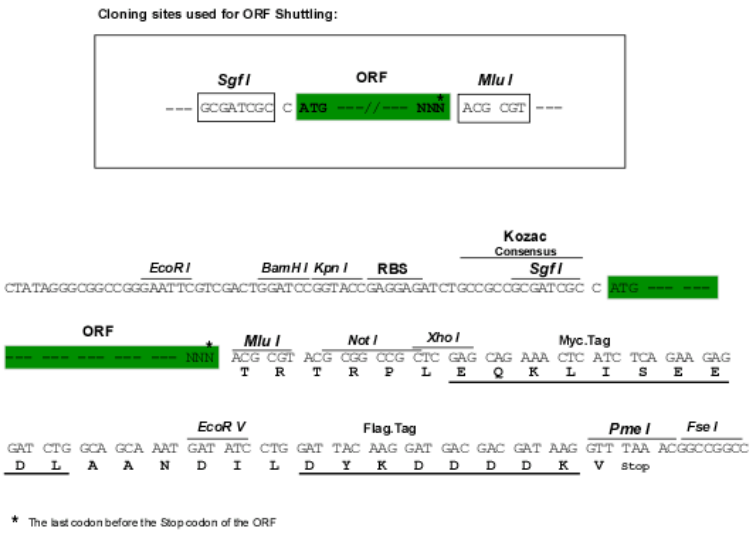
>MR219750 protein sequence
Red=Cloning site Green=Tags(s)

MAKEDEEPGAHRGGSTCSRPQPGKGGRTAACCSRPKVAALIVGTLLFLTGIGAASWAIVTILLQSDQEPL
YQVQLSPGDSRLAVFDKTEGTWRLLCSSRSNARVAGLGCEEMGFLRALAHSELDVRTAGANGTSGFFCVD
EGGLPLAQRLLDVISVCDCPRGRFLTATCQDCGRRKLPVDRIVGGQDSSLGRWPWQVSLRYDGTHLCGGS
LLSGDWVLTAAHCFPERNRVLSRWRVFAGAVARTSPHAVQLGVQAVIYHGGYLPFRDPTIDENSNDIALV
HLSSSLPLTEYIQPVCLPAAGQALVDGKVCTVTGWGNTQFYGQQAMVLQEARVPIISNEVCNSPDFYGNQ
IKPKMFCAGYPEGGIDACQGDSGGPFVCEDSISGTSRWRLCGIVSWGTGCALARKPGVYTKVTDFREWIF
KAIKTHSEASGMVTQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001110252

ORF Size: 1311 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_001110252.2, NP_001103722.1

RefSeq Size: 1866 bp

RefSeq ORF: 1311 bp

Locus ID: 15451

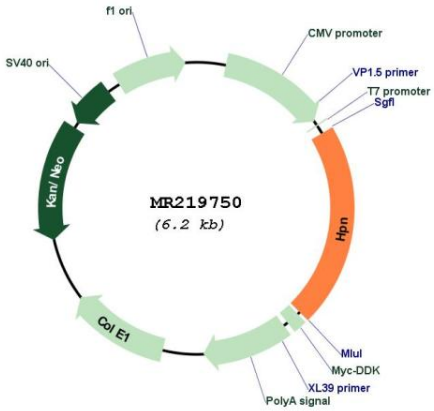
UniProt ID: O35453

Cytogenetics: 7 B1

MW: 46.8 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]

Product images:



Circular map for MR219750