

Product datasheet for **MG219750**

Hpn (NM_001110252) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpn (NM_001110252) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hpn
Synonyms:	Hlb32; Hlb320
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219750 representing NM_001110252 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGAAGGAGGATGAGGAACCTGGGGCTCACAGAGGAGGTTCCACTTGTTCAGACCCCAACCTGGAA
AGGGTGGCCGACTGCAGCATGCTGCTCCAGACCCAAGGTGGCAGCTCTCATTGTGGGTACCCTGCTGTT
CCTGACAGGCATTGGGGCCGCTCCTGGCCATTGTGACCATCTACTGCAGAGTGACCAGGAGCCACTG
TACCAAGTGCAGCTCAGTCCAGGGGACTCACGGCTTGCGGTGTTTGACAAGACGGAGGGAACGTGGAGGC
TACTGTGCTCCTCAGCTCCAATGCCAGGGTGGCAGGGCTCGGCTGTGAGGAGATGGGCTTCTCAGGGC
TCTGGCGCACTCGGAGCTGGATGTGCGCACTGCGGGCGCCAACGGCACATCGGGCTTCTTTGCGTGGAC
GAGGGCGGACTGCCTCTGGCTCAGAGGTTGCTGGATGTCTCTGTATGTGACTGTCTAGAGGCCGAT
TCCTGACTGCCACCTGCCAAGACTGTGGCCGAGGAAGCTGCCGGTGGACCGCATTGTGGGGGGCCAGGA
CAGCAGTCTGGGAAGGTGGCCGTGGCAGGTGAGCTGCGTTATGATGGGACCCACCTCTGTGGGGGTCC
CTGCTGTCTGGGACTGGGTGCTGACTGCTGCACATTGCTTCCAGAGCGGAACCGGGTCTGTCTCGGT
GGCGAGTATTTGCTGGTGTGTAGCCCGGACCTCACCCCATGCTGTGCAACTGGGGTTTCAAGCTGTGAT
CTATCATGGGGGTACCTTCCCTTTCGAGACCTACTATCGACGAAAACAGCAATGACATTGCCTTGGTC
CACCTCTCTAGCTCCCTGCCTCTACAGAATACATCCAGCCAGTGTGCTCCCTGCTGCGGGACAGGCC
TGGTGGATGGCAAGGTCTGTACTGTGACCGGCTGGGGTAACACACAGTTCTATGGCCAACAGGCTATGGT
GCTCCAAGAGGCCCGGGTCCCATCATAAGCAACGAAGTTTGCAACAGCCCCGACTTCTACGGGAATCAG
ATCAAGCCCAAGATGTTCTGTGTGGCTATCCTGAGGGTGGCATTGATGCGTGCCAGGGCGACAGTGGAG
GCCCCCTTGTGTGTGAAGACAGCATCTCTGGGACATCAAGGTGGCGGCTATGTGGCATTGTAAGCTGGG
TACGGGCTGTGCTTGGCCCGAAGCCAGGAGGTACACCAAAGTCACTGACTTCCGGGAGTGGATCTTC
AAGGCCATAAAGACTCACTCCGAAGCCAGTGGCATGGTACTCAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219750 representing NM_001110252
 Red=Cloning site Green=Tags(s)

MAKEDEEPPGAHRGGSTCSRPPQPGKGGRTAACCSRPKVAALIVGTLLFLTIGGAASWAIVTILLQSDQEPL
 YQVQLSPGDSRLAVFDKTEGTWRLLCSSRSNARVAGLGCEEMGFLRALHSELDRVTRAGANGTSGFFCVD
 EGGLPLAQRLLDVISVDCPRGRFLTATCQDCGRRKLPVDRIVGGQDSSLGRWPVQVSLRYDGTLCGGS
 LLSGDWVLTAAHCFPERNRVLSRWRFAGAVARTSPHAVQLGVQAVIYHGGYLPFRDPTIDENSNDIALV
 HLSSSLPLTEYIQPVCLPAAGQALVDGKVCVTGTGNGTQFYGQQAMVLQEARVPIISNEVCNSPDFYGNQ
 IKPKMFACAGYPEGGIDACQGDSGGPFVCEDSISGTSRWRLCGIVSWGTGCALARKPGVYTKVTDFFREWIF
 KAIKTHSEASGMVTQP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001110252

ORF Size: 1308 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: [NM_001110252.2](#), [NP_001103722.1](#)

RefSeq Size: 1830 bp

RefSeq ORF: 1311 bp

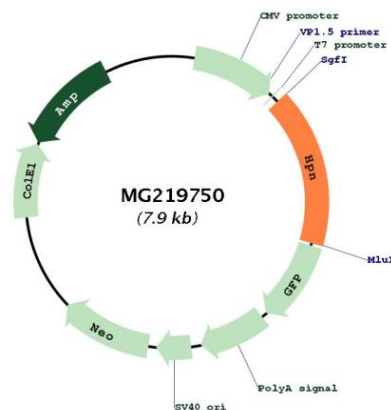
Locus ID: 15451

UniProt ID: [O35453](#)

Cytogenetics: 7 B1

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 MG219750