

Product datasheet for **MG219749**

Hpn (NM_008281) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpn (NM_008281) 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:	>MG219749 representing NM_008281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAAGGAGGGTGGCCGGACTGCAGCATGCTGCTCCAGACCCAAGGTGGCAGCTCTCATTGTGGGTA
CCCTGCTGTTCTGACAGGCATTGGGGCCGCTCCTGGGCCATTGTGACCATCCTACTGCAGAGTGACCA
GGAGCCACTGTACCAAGTGCAGCTCAGTCCAGGGGACTCACGGCTTGGGTGTTTGACAAGACGGAGGGA
ACGTGGAGGCTACTGTGCTCCTCAGCTCCAATGCCAGGGTGGCAGGGCTCGGCTGTGAGGAGATGGCT
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CTGTCTCGGTGGCGAGTATTTGCTGGTGTGTAGCCCGGACCTCACCCCATGCTGTGCAACTGGGGTTC
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TGCTTGGTCCACCTCTTAGCTCCCTGCCTCTCACAGAATACATCCAGCCAGTGTGTCTCCCTGCTGCG
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AGGCTATGGTGTCCAAGAGGCCCGGGTTCCCATCATAAGCAACGAAGTTTGCAACAGCCCGACTTCTA
CGGAATCAGATCAAGCCCAAGATGTTCTGTGCTGGCTATCCTGAGGGTGGCATTGATGCGTGCCAGGGC
GACAGTGGAGGCCCTTTGTGTGTAAGACAGCATCTCTGGGACATCAAGGTGGCGGCTATGTGGCATTG
TAAGCTGGGTACGGCTGTGCTTTGGCCGGAAGCCAGGAGTGTACACCAAAGTCACTGACTTCCGGGA
GTGGATCTTCAAGCCATAAAGACTCACTCCGAAGCCAGTGGCATGGTACTCAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219749 representing NM_008281
 Red=Cloning site Green=Tags(s)

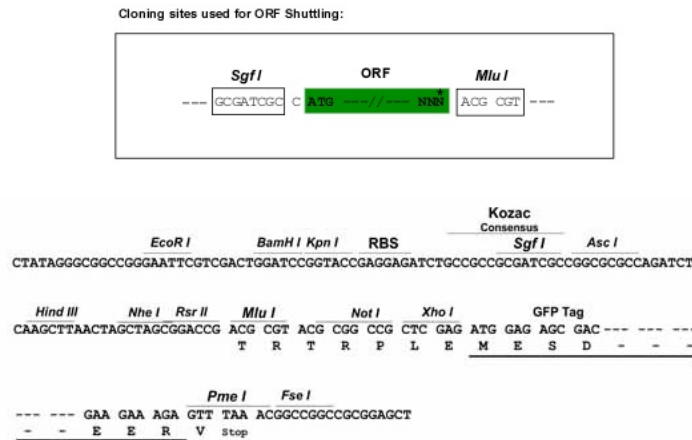
MAKEGGRTAACCSRPKVAALIVGTLFLFTGIGAASWAIVTILLQSDQEPLYQVQLSPGDSRLAVFDKTEG
 TWRLLCSSRSNARVAGLGCEEMGFLRALAHSELDVRTAGANGTSGFFCVDEGGLPLAQRLLDVISVCDPC
 RGRFLTATCQDCGRRKLPVDRIVGGQDSSLGRWPWQVSLRYDGTSLCGGSLSGDWVLTAAHCFPERNRV
 LSRWRVFAGAVARTSPHAVQLGVQAVIYHGGYLPFRDPTIDENSNDIALVHLSSSLPLTEYIQPVCLPAA
 GQALVDGKVCTVTGWGNTQFYGQQAMVLQEARVPIISNEVCNSPDFYGNQIKPKMFCAGYPEGGIDACQG
 DSGGPFVCEDSISGTSRWRLCGIVSWGTCALARKPGVYTKVTFREWIFKAIKTHSEASGMVTQP

TRTRPLE - GFP Tag - V

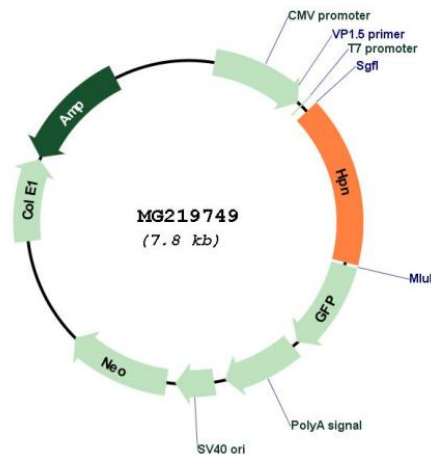
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_008281

ORF Size:	1248 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:	<ol style="list-style-type: none">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_008281.4 , NP_032307.2
RefSeq Size:	1770 bp
RefSeq ORF:	1251 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]